

# **BONANZA CREEK ENERGY**

**WELD COUNTY**

**SEC 16-T5N-R61W**

**PH FENRIR F16 08N-20-03**

**OWB**

**PROPOSAL 1**

## **Anticollision Report**

**29 July, 2024**

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL 1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.00usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Unknown AC limit!	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	7/29/2024		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	16,795.97	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

<b>Summary</b>						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 16-T5N-R61W						
ABND VERT PRONGHORN 41-16 - OWB - Design #1	900.00	860.00	3,172.18	3,151.22	151.322	CC
ABND VERT PRONGHORN 41-16 - OWB - Design #1	1,000.00	959.98	3,173.92	3,150.59	136.067	ES
ABND VERT PRONGHORN 41-16 - OWB - Design #1	6,400.00	5,959.04	4,718.90	4,574.71	32.728	SF
ABND VERT STATE 1 (NO CSG) - OWB - Design #1	3,984.51	3,814.16	3,380.69	3,283.08	34.636	CC
ABND VERT STATE 1 (NO CSG) - OWB - Design #1	4,900.00	4,685.39	3,392.36	3,271.25	28.010	ES
ABND VERT STATE 1 (NO CSG) - OWB - Design #1	6,000.00	5,717.23	3,518.51	3,369.89	23.674	SF
ABND VERT STATE PRONGHORN 11-16 - OWB - Desi	3,540.73	3,419.84	358.52	271.78	4.133	CC
ABND VERT STATE PRONGHORN 11-16 - OWB - Desi	3,600.00	3,476.24	358.99	270.72	4.067	ES
ABND VERT STATE PRONGHORN 11-16 - OWB - Desi	3,900.00	3,761.74	375.13	279.52	3.924	SF
EXIST HZ KUNSEMILLER 5-61-20-0801B2B - OWB - FI	5,464.87	5,430.96	4,918.06	4,867.84	97.923	CC
EXIST HZ KUNSEMILLER 5-61-20-0801B2B - OWB - FI	5,700.00	5,630.00	4,918.55	4,866.24	94.024	ES
EXIST HZ KUNSEMILLER 5-61-20-0801B2B - OWB - FI	6,000.00	5,948.45	5,001.82	4,946.38	90.223	SF
EXIST HZ STATE PRONGHORN 11-14-16HNB - OWB -	2,648.86	2,590.42	148.42	127.72	7.170	CC, ES
EXIST HZ STATE PRONGHORN 11-14-16HNB - OWB -	3,100.00	3,043.15	158.90	132.42	6.002	SF
EXIST HZ STATE PRONGHORN A-E-16HNB - OWB - F	6,246.52	6,135.31	32.72	-15.03	0.685	Level 1, CC, ES, SF
EXIST HZ STATE PRONGHORN F-J-16HNB - OWB - FI	2,034.40	1,989.06	81.02	66.92	5.745	CC, ES
EXIST HZ STATE PRONGHORN F-J-16HNB - OWB - FI	2,100.00	2,050.47	84.24	69.52	5.721	SF
PH FENRIR F16 08N-20-01 - OWB - PROPOSAL 1	330.40	330.40	40.07	37.88	18.319	CC
PH FENRIR F16 08N-20-01 - OWB - PROPOSAL 1	500.00	499.69	40.64	37.25	11.985	ES
PH FENRIR F16 08N-20-01 - OWB - PROPOSAL 1	16,795.97	17,439.79	1,650.73	1,264.38	4.273	SF
PH FENRIR F16 08N-20-01E - OWB - PROPOSAL 1	576.22	575.23	61.93	57.99	15.708	CC
PH FENRIR F16 08N-20-01E - OWB - PROPOSAL 1	700.00	698.75	62.21	57.39	12.913	ES
PH FENRIR F16 08N-20-01E - OWB - PROPOSAL 1	16,795.97	17,191.63	1,099.56	713.89	2.851	SF
PH FENRIR F16 08N-20-01W - OWB - PROPOSAL 1	304.45	304.61	138.28	136.28	69.116	CC
PH FENRIR F16 08N-20-01W - OWB - PROPOSAL 1	400.00	399.65	138.55	135.84	51.292	ES
PH FENRIR F16 08N-20-01W - OWB - PROPOSAL 1	16,795.97	17,715.82	2,199.12	1,813.98	5.710	SF
PH FENRIR F16 08N-20-02 - OWB - PROPOSAL 1	707.36	707.36	21.86	16.97	4.469	CC
PH FENRIR F16 08N-20-02 - OWB - PROPOSAL 1	800.00	799.96	21.93	16.38	3.952	ES
PH FENRIR F16 08N-20-02 - OWB - PROPOSAL 1	16,795.97	16,973.17	551.17	165.14	1.428	Level 3, SF
PH FENRIR F16 17U-20-04 - OWB - PROPOSAL 1	100.00	100.00	120.25	119.71	223.636	CC
PH FENRIR F16 17U-20-04 - OWB - PROPOSAL 1	200.00	198.53	120.86	119.61	96.898	ES
PH FENRIR F16 17U-20-04 - OWB - PROPOSAL 1	7,000.00	6,158.45	604.68	538.56	9.145	SF
SI HZ STATE PRONGHORN 31-34-16HNB - OWB - FIN	1,634.18	2,374.65	2,802.74	2,788.08	191.202	CC, ES
SI HZ STATE PRONGHORN 31-34-16HNB - OWB - FIN	8,000.00	5,827.00	3,792.83	3,738.33	69.589	SF
SI HZ STATE PRONGHORN 41-44-16HZ - OWB - FINAL	940.50	961.74	3,202.69	3,196.86	549.227	CC, ES
SI HZ STATE PRONGHORN 41-44-16HZ - OWB - FINAL	9,500.00	5,637.00	5,858.45	5,792.66	89.045	SF
STATE PH FENRIR F16 16S-10-05 - OWB - PROPOSAL	200.00	200.00	98.40	97.15	78.431	CC, ES

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

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<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 16-T5N-R61W						
STATE PH FENRIR F16 16S-10-05 - OWB - PROPOSAL	1,100.00	1,074.04	203.70	196.07	26.681	SF
STATE PH FENRIR F16 16U-20-06 - OWB - PROPOSAL	300.00	300.00	80.20	78.23	40.676	CC, ES
STATE PH FENRIR F16 16U-20-06 - OWB - PROPOSAL	800.00	786.78	111.60	106.08	20.216	SF
SEC 17-T5N-R61W						
ABND VERT FURROW 1 (NO CSG) - OWB - Design #1	5,915.98	5,614.29	5,398.50	5,258.37	38.526	CC, ES
ABND VERT FURROW 1 (NO CSG) - OWB - Design #1	6,400.00	5,917.04	5,530.95	5,379.80	36.593	SF
ABND VERT PRONGHORN 11-17 - OWB - Design #1	6,353.59	5,912.40	4,744.21	4,599.62	32.811	CC, ES
ABND VERT PRONGHORN 11-17 - OWB - Design #1	8,100.00	5,956.00	5,248.38	5,078.49	30.894	SF
ABND VERT PRONGHORN 31-17 - OWB - Design #1	6,217.99	5,862.32	2,078.36	1,934.93	14.491	CC, ES
ABND VERT PRONGHORN 31-17 - OWB - Design #1	6,500.00	5,964.11	2,119.58	1,970.36	14.204	SF
ABND VERT PRONGHORN 42-17 (GYRO) - OWB - GY	5,765.82	5,487.55	1,790.99	1,741.34	36.076	CC, ES
ABND VERT PRONGHORN 42-17 (GYRO) - OWB - GY	6,000.00	5,698.65	1,836.91	1,784.54	35.076	SF
EXIST HZ PRONGHORN 11-14-17HNB - OWB - FINAL	6,519.31	5,811.00	4,667.86	4,621.61	100.933	CC, ES
EXIST HZ PRONGHORN 11-14-17HNB - OWB - FINAL	10,100.00	5,650.27	5,960.14	5,863.80	61.863	SF
EXIST HZ PRONGHORN 21-24-17HNB - OWB - FINAL	6,437.17	6,060.91	3,391.24	3,344.92	73.222	CC, ES
EXIST HZ PRONGHORN 21-24-17HNB - OWB - FINAL	8,900.00	5,661.00	4,235.32	4,155.31	52.935	SF
EXIST HZ PRONGHORN 31-34-17HZ - OWB - FINAL S	6,314.08	5,742.00	2,195.05	2,150.70	49.502	CC, ES
EXIST HZ PRONGHORN 31-34-17HZ - OWB - FINAL S	7,600.00	5,649.00	2,643.10	2,580.42	42.170	SF
EXIST HZ PRONGHORN F-J-17HNC - OWB - FINAL SU	6,510.19	5,769.00	4,032.74	3,987.03	88.215	CC, ES
EXIST HZ PRONGHORN F-J-17HNC - OWB - FINAL SU	9,500.00	5,673.00	5,093.22	5,006.32	58.609	SF
EXIST HZ PRONGHORN P-T-17HNB - OWB - FINAL SU	6,432.17	5,929.01	1,332.31	1,286.02	28.782	CC, ES
EXIST HZ PRONGHORN P-T-17HNB - OWB - FINAL SU	7,000.00	5,793.00	1,461.81	1,406.66	26.507	SF
EXIST HZ PRONGHORN P-T-17HNB - STK 1 - STK 1	6,432.17	5,929.01	1,332.31	1,286.02	28.782	CC, ES
EXIST HZ PRONGHORN P-T-17HNB - STK 1 - STK 1	7,000.00	5,793.00	1,461.81	1,406.66	26.507	SF

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<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
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<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

### Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 5-T5N-R61W						
ABND VERT BOWMAN 32-1 - OWB - Design #1	16,795.97	5,978.00	4,824.23	4,517.87	15.747	CC, ES, SF
ABND VERT FURROW 1 - OWB - Design #1	16,795.97	6,053.00	8,119.59	7,930.83	43.016	CC, ES, SF
ABND VERT PRONGHORN 32-5 - OWB - Design #1	14,934.00	5,996.00	2,160.82	1,879.41	7.679	CC
ABND VERT PRONGHORN 32-5 - OWB - Design #1	15,000.00	5,996.00	2,161.79	1,878.63	7.635	ES
ABND VERT PRONGHORN 32-5 - OWB - Design #1	15,200.00	5,996.00	2,177.00	1,889.45	7.571	SF
ABND VERT PRONGHORN 32-5 - OWB - GYRO	14,910.33	5,400.00	2,312.84	2,137.61	13.198	CC
ABND VERT PRONGHORN 32-5 - OWB - GYRO	15,000.00	5,400.00	2,314.58	2,137.10	13.042	ES
ABND VERT PRONGHORN 32-5 - OWB - GYRO	15,300.00	5,400.00	2,345.44	2,162.20	12.800	SF
ABND VERT PRONGHORN 41-6 - OWB - Design #1	16,270.10	5,967.00	6,057.59	5,754.20	19.966	CC
ABND VERT PRONGHORN 41-6 - OWB - Design #1	16,400.00	5,967.00	6,058.98	5,752.87	19.794	ES
ABND VERT PRONGHORN 41-6 - OWB - Design #1	16,795.97	5,967.00	6,080.37	5,766.53	19.374	SF
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	16,795.97	10,624.00	1,009.84	774.11	4.284	CC, ES, SF
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	12,098.75	10,502.00	4,747.73	4,552.06	24.264	CC
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	12,200.00	10,502.00	4,748.81	4,550.89	23.994	ES
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	16,400.00	6,811.00	4,883.17	4,669.56	22.861	SF
EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL S	12,750.64	7,023.13	392.26	244.84	2.661	CC
EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL S	16,476.64	10,762.00	498.63	230.42	1.859	ES, SF
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	7,900.00	7,560.77	3,243.11	3,169.31	43.946	CC
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	14,800.00	14,356.00	3,334.98	3,030.61	10.957	ES
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	16,795.97	16,154.00	3,418.06	3,047.22	9.217	SF
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	6,404.45	4,457.10	5,046.45	5,004.59	120.558	CC, ES
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	16,795.97	16,242.00	5,400.67	5,028.12	14.497	SF
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	6,491.20	5,794.22	3,950.04	3,903.52	84.915	CC
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	14,400.00	13,954.00	4,051.32	3,759.31	13.874	ES
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	16,795.97	16,091.00	4,150.38	3,778.05	11.147	SF
EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL S	7,866.01	14,719.15	2,661.26	2,462.59	13.396	CC
EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL S	7,900.00	14,696.68	2,661.33	2,462.52	13.386	ES
EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL S	16,795.97	5,957.58	2,711.10	2,496.57	12.637	SF
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	12,710.86	12,231.00	6,661.98	6,431.26	28.874	CC
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	15,700.00	15,054.00	6,668.17	6,335.35	20.035	ES
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	16,795.97	16,045.00	6,715.00	6,345.14	18.156	SF
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	16,795.97	10,650.00	8,700.13	8,511.38	46.094	CC, ES, SF
EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL	16,795.97	10,700.00	8,348.95	8,171.79	47.126	CC, ES, SF
PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL	16,795.97	4,424.36	4,320.98	4,123.54	21.886	CC, ES, SF
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	16,795.97	5,001.48	3,780.49	3,574.63	18.365	CC, ES, SF
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	16,795.97	4,996.44	3,777.17	3,571.66	18.380	CC, ES, SF
PRONGHORN K-5 FED 32N-20-02 - OWB - SURFACE	16,781.33	1,728.00	4,994.67	4,865.37	38.629	CC
PRONGHORN K-5 FED 32N-20-02 - OWB - SURFACE	16,795.97	1,728.00	4,994.69	4,865.18	38.568	ES, SF
PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL	16,795.97	5,530.50	3,107.82	2,896.27	14.690	CC, ES, SF
PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL	16,795.97	5,333.38	3,335.37	3,126.04	15.934	CC, ES, SF
PRONGHORN K-5 FED 32N-20-03 - OWB - SURFACE	16,765.05	1,725.00	4,918.61	4,791.71	38.760	CC
PRONGHORN K-5 FED 32N-20-03 - OWB - SURFACE	16,795.97	1,725.00	4,918.71	4,791.38	38.630	ES, SF
PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL	16,795.97	5,885.24	2,314.27	2,102.01	10.903	CC, ES, SF
PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL	16,795.97	5,623.98	2,836.76	2,625.18	13.408	CC, ES, SF
PRONGHORN K-5 FED 32N-20-04 - OWB - SURFACE	16,736.56	1,698.00	4,863.08	4,739.69	39.413	CC
PRONGHORN K-5 FED 32N-20-04 - OWB - SURFACE	16,795.97	1,698.00	4,863.44	4,739.26	39.163	ES, SF
PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL	16,795.97	5,882.10	2,313.87	2,101.72	10.907	CC, ES, SF
PRONGHORN K-5 FED 32N-20-06 - OWB - PROPOSAL	16,795.97	6,000.00	1,761.95	1,551.42	8.369	CC, ES, SF
PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL	16,795.97	6,089.30	1,210.53	1,002.57	5.821	CC, ES, SF
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	16,795.97	6,200.00	674.29	475.55	3.393	CC, ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
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<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 8-T5N-R61W						
ABND VERT PRONGHORN 31-8 (GYRO) - OWB - Desi	10,978.49	5,987.00	1,978.47	1,865.62	17.531	CC
ABND VERT PRONGHORN 31-8 (GYRO) - OWB - Desi	11,000.00	5,987.00	1,978.59	1,865.14	17.440	ES
ABND VERT PRONGHORN 31-8 (GYRO) - OWB - Desi	11,500.00	5,987.00	2,046.05	1,921.82	16.469	SF
ABND VERT PRONGHORN 31-8 (GYRO) - OWB - GYR	10,991.42	5,901.06	2,012.29	1,899.95	17.912	CC
ABND VERT PRONGHORN 31-8 (GYRO) - OWB - GYR	11,000.00	5,901.06	2,012.31	1,899.73	17.875	ES
ABND VERT PRONGHORN 31-8 (GYRO) - OWB - GYR	11,500.00	5,901.06	2,075.56	1,952.08	16.809	SF
ABND VERT PRONGHORN 32-8 - OWB - Design #1	9,743.50	5,989.00	2,031.81	1,940.46	22.240	CC
ABND VERT PRONGHORN 32-8 - OWB - Design #1	9,800.00	5,989.00	2,032.60	1,939.74	21.890	ES
ABND VERT PRONGHORN 32-8 - OWB - Design #1	10,400.00	5,989.00	2,135.25	2,029.81	20.252	SF
ABND VERT WILLIAMS 8-1 - OWB - Design #1	8,428.66	5,998.00	2,937.29	2,867.26	41.943	CC
ABND VERT WILLIAMS 8-1 - OWB - Design #1	8,500.00	5,998.00	2,938.15	2,866.55	41.032	ES
ABND VERT WILLIAMS 8-1 - OWB - Design #1	9,900.00	5,998.00	3,285.20	3,188.46	33.960	SF
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	11,152.22	10,806.92	3,327.97	3,149.03	18.598	CC
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	11,600.00	11,168.19	3,337.00	3,143.82	17.275	ES
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	12,200.00	11,203.00	3,399.84	3,196.87	16.750	SF
EXIST HZ PRONGHORN 24-8-5XRLNB - STK 1 - STK 1	8,165.00	7,816.66	3,332.87	3,253.22	41.843	CC
EXIST HZ PRONGHORN 24-8-5XRLNB - STK 1 - STK 1	11,000.00	10,552.00	3,349.82	3,179.46	19.664	ES
EXIST HZ PRONGHORN 24-8-5XRLNB - STK 1 - STK 1	11,600.00	10,552.00	3,421.03	3,241.41	19.046	SF
EXIST HZ PRONGHORN 24-8-5XRLNB - STK 2 - STK 2	7,900.00	7,560.76	3,243.05	3,170.96	44.985	CC
EXIST HZ PRONGHORN 24-8-5XRLNB - STK 2 - STK 2	14,800.00	14,356.00	3,334.92	3,032.75	11.037	ES
EXIST HZ PRONGHORN 24-8-5XRLNB - STK 2 - STK 2	16,795.97	16,154.00	3,417.99	3,049.39	9.273	SF
EXIST HZ PRONGHORN P-T-8HNB - OWB - FINAL SU	10,614.00	6,878.11	1,293.83	1,184.32	11.815	CC
EXIST HZ PRONGHORN P-T-8HNB - OWB - FINAL SU	10,700.00	6,835.00	1,295.12	1,183.88	11.642	ES
EXIST HZ PRONGHORN P-T-8HNB - OWB - FINAL SU	11,700.00	5,927.83	1,367.02	1,240.87	10.836	SF
EXIST PRONGHORN K-O-17HNB - OWB - FINAL SURV	6,408.08	6,424.00	2,787.52	2,736.34	54.461	CC, ES
EXIST PRONGHORN K-O-17HNB - OWB - FINAL SURV	8,500.00	5,987.00	3,533.32	3,451.95	43.421	SF

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 9-T5N-R61W						
ABND VERT PRONGHORN 12-9 (GYRO) - GYRO SUR	9,600.00	6,001.51	687.67	597.78	7.650	SF
ABND VERT PRONGHORN 12-9 (GYRO) - GYRO SUR	9,643.10	6,000.97	686.32	596.91	7.676	CC, ES
ABND VERT PRONGHORN 12-9 (GYRO) - OWB - Desi	9,669.82	6,024.00	652.41	461.46	3.417	CC, ES, SF
ABND VERT PRONGHORN 31-9 (GYRO) - GYRO SUR	11,006.55	5,800.00	3,379.49	3,268.05	30.325	CC, ES
ABND VERT PRONGHORN 31-9 (GYRO) - GYRO SUR	11,600.00	5,800.00	3,431.20	3,314.68	29.447	SF
ABND VERT PRONGHORN 31-9 (GYRO) - OWB - Desi	10,995.41	6,025.00	3,320.14	3,106.70	15.555	CC
ABND VERT PRONGHORN 31-9 (GYRO) - OWB - Desi	11,000.00	6,025.00	3,320.15	3,106.66	15.552	ES
ABND VERT PRONGHORN 31-9 (GYRO) - OWB - Desi	11,400.00	6,025.00	3,344.70	3,127.56	15.403	SF
ABND VERT PRONGHORN 41-9 (GYRO) - GYRO SUR	10,957.74	5,900.00	4,628.15	4,516.88	41.592	CC
ABND VERT PRONGHORN 41-9 (GYRO) - GYRO SUR	11,000.00	5,900.00	4,628.34	4,516.54	41.398	ES
ABND VERT PRONGHORN 41-9 (GYRO) - GYRO SUR	12,200.00	5,900.00	4,791.97	4,668.42	38.787	SF
ABND VERT PRONGHORN 41-9 (GYRO) - OWB - Desi	11,006.19	6,051.00	4,642.71	4,428.60	21.684	CC
ABND VERT PRONGHORN 41-9 (GYRO) - OWB - Desi	11,100.00	6,051.00	4,643.66	4,428.39	21.571	ES
ABND VERT PRONGHORN 41-9 (GYRO) - OWB - Desi	11,900.00	6,051.00	4,727.96	4,504.30	21.138	SF
EXIST HZ PRONGHORN 13-43-9HNB - OWB - FINAL S	8,400.00	6,020.73	211.36	153.43	3.649	ES, SF
EXIST HZ PRONGHORN 13-43-9HNB - OWB - FINAL S	8,415.01	6,020.48	210.83	154.40	3.736	CC
EXIST HZ PRONGHORN 13-43-9HNB - STK 1 - STK 1	8,400.00	6,020.73	211.36	153.43	3.649	ES, SF
EXIST HZ PRONGHORN 13-43-9HNB - STK 1 - STK 1	8,415.01	6,020.48	210.83	154.40	3.736	CC
EXIST HZ PRONGHORN 14-44-9HNB - OWB - FINAL S	6,900.00	6,022.21	203.81	163.41	5.045	SF
EXIST HZ PRONGHORN 14-44-9HNB - OWB - FINAL S	6,933.58	6,021.82	201.03	162.81	5.261	CC, ES
EXIST HZ PRONGHORN 41-11-9HZ - OWB - FINAL SU	10,800.00	10,885.00	538.31	395.12	3.759	SF
EXIST HZ PRONGHORN 41-11-9HZ - OWB - FINAL SU	11,025.76	10,885.00	488.68	375.02	4.300	CC
EXIST HZ PRONGHORN 41-11-9HZ - OWB - FINAL SU	11,100.00	10,885.00	494.29	374.23	4.117	ES
EXIST HZ PRONGHORN C-W-9HNB - OWB - FINAL SU	9,000.00	6,186.21	237.52	164.70	3.262	ES, SF
EXIST HZ PRONGHORN C-W-9HNB - OWB - FINAL SU	9,017.89	6,186.44	236.85	165.53	3.321	CC
EXIST HZ PRONGHORN D-X-9HNB - OWB - FINAL SU	7,500.00	5,930.79	232.30	182.56	4.671	SF
EXIST HZ PRONGHORN D-X-9HNB - OWB - FINAL SU	7,597.41	5,927.35	210.93	169.54	5.097	CC, ES

<b>Offset Design</b> SEC 16-T5N-R61W - ABND VERT PRONGHORN 41-16 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
100.00	100.00	60.00	60.00	0.27	1.44	97.98	-440.62	3,141.43	3,172.18	3,170.48	1.71	1,858.643	
200.00	200.00	160.00	160.00	0.63	3.65	97.98	-440.62	3,141.43	3,172.18	3,167.91	4.28	741.739	
300.00	300.00	260.00	260.00	0.99	5.71	97.98	-440.62	3,141.43	3,172.18	3,165.49	6.69	473.861	
400.00	400.00	360.00	360.00	1.34	7.74	97.98	-440.62	3,141.43	3,172.18	3,163.10	9.08	349.189	
500.00	500.00	460.00	460.00	1.70	9.76	97.98	-440.62	3,141.43	3,172.18	3,160.72	11.47	276.670	
600.00	600.00	560.00	560.00	2.06	11.78	97.98	-440.62	3,141.43	3,172.18	3,158.34	13.84	229.161	
700.00	700.00	660.00	660.00	2.42	13.80	97.98	-440.62	3,141.43	3,172.18	3,155.97	16.22	195.605	
800.00	800.00	760.00	760.00	2.78	15.81	97.98	-440.62	3,141.43	3,172.18	3,153.59	18.59	170.633	
900.00	900.00	860.00	860.00	3.14	17.83	97.98	-440.62	3,141.43	3,172.18	3,151.22	20.96	151.322	CC
1,000.00	999.98	959.98	959.98	3.49	19.84	-172.76	-440.62	3,141.43	3,173.92	3,150.59	23.33	136.067	ES
1,100.00	1,099.84	1,059.84	1,059.84	3.83	21.85	-172.76	-440.62	3,141.43	3,179.11	3,153.43	25.68	123.790	
1,200.00	1,199.45	1,159.45	1,159.45	4.19	23.85	-172.76	-440.62	3,141.43	3,187.75	3,159.72	28.03	113.707	
1,300.00	1,298.70	1,258.70	1,258.70	4.55	25.85	-172.75	-440.62	3,141.43	3,199.84	3,169.46	30.38	105.316	
1,400.00	1,397.47	1,357.47	1,357.47	4.94	27.84	-172.75	-440.62	3,141.43	3,215.37	3,182.64	32.72	98.258	
1,500.00	1,495.62	1,455.62	1,455.62	5.34	29.81	-172.74	-440.62	3,141.43	3,234.30	3,199.24	35.05	92.264	
1,600.00	1,593.06	1,553.06	1,553.06	5.78	31.77	-172.73	-440.62	3,141.43	3,256.62	3,219.25	37.37	87.138	
1,700.00	1,689.64	1,649.64	1,649.64	6.24	33.72	-172.73	-440.62	3,141.43	3,282.31	3,242.63	39.68	82.724	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - ABND VERT PRONGHORN 41-16 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,800.00	1,785.27	1,745.27	1,745.27	6.75	35.64	-172.72	-440.62	3,141.43	3,311.32	3,269.35	41.97	78.899		
1,900.00	1,880.44	1,840.44	1,840.44	7.30	37.55	-172.78	-440.62	3,141.43	3,341.82	3,297.57	44.24	75.532		
2,000.00	1,975.60	1,935.60	1,935.60	7.86	39.47	-172.85	-440.62	3,141.43	3,372.32	3,325.79	46.52	72.487		
2,100.00	2,070.77	2,030.77	2,030.77	8.43	41.38	-172.91	-440.62	3,141.43	3,402.82	3,354.01	48.81	69.720		
2,200.00	2,165.93	2,125.93	2,125.93	9.02	43.30	-172.98	-440.62	3,141.43	3,433.33	3,382.23	51.09	67.196		
2,300.00	2,261.10	2,221.10	2,221.10	9.62	45.21	-173.04	-440.62	3,141.43	3,463.84	3,410.45	53.38	64.884		
2,400.00	2,356.26	2,316.26	2,316.26	10.23	47.13	-173.10	-440.62	3,141.43	3,494.35	3,438.68	55.68	62.760		
2,500.00	2,451.43	2,411.43	2,411.43	10.84	49.04	-173.16	-440.62	3,141.43	3,524.87	3,466.90	57.97	60.802		
2,600.00	2,546.59	2,506.59	2,506.59	11.46	50.95	-173.22	-440.62	3,141.43	3,555.39	3,495.12	60.27	58.990		
2,700.00	2,641.76	2,601.76	2,601.76	12.09	52.87	-173.28	-440.62	3,141.43	3,585.92	3,523.35	62.57	57.311		
2,800.00	2,736.92	2,696.92	2,696.92	12.72	54.78	-173.33	-440.62	3,141.43	3,616.45	3,551.58	64.87	55.749		
2,900.00	2,832.09	2,792.09	2,792.09	13.35	56.70	-173.39	-440.62	3,141.43	3,646.98	3,579.81	67.17	54.292		
3,000.00	2,927.25	2,887.25	2,887.25	13.99	58.61	-173.44	-440.62	3,141.43	3,677.51	3,608.04	69.48	52.932		
3,100.00	3,022.42	2,982.42	2,982.42	14.63	60.52	-173.50	-440.62	3,141.43	3,708.05	3,636.27	71.78	51.658		
3,200.00	3,117.58	3,077.58	3,077.58	15.27	62.44	-173.55	-440.62	3,141.43	3,738.59	3,664.51	74.09	50.463		
3,300.00	3,212.75	3,172.75	3,172.75	15.91	64.35	-173.60	-440.62	3,141.43	3,769.14	3,692.74	76.39	49.339		
3,400.00	3,307.91	3,267.91	3,267.91	16.56	66.27	-173.66	-440.62	3,141.43	3,799.68	3,720.98	78.70	48.281		
3,500.00	3,403.08	3,363.08	3,363.08	17.20	68.18	-173.71	-440.62	3,141.43	3,830.23	3,749.22	81.01	47.282		
3,600.00	3,498.24	3,458.24	3,458.24	17.85	70.09	-173.76	-440.62	3,141.43	3,860.78	3,777.47	83.32	46.339		
3,700.00	3,593.41	3,553.41	3,553.41	18.50	72.01	-173.81	-440.62	3,141.43	3,891.34	3,805.71	85.62	45.446		
3,800.00	3,688.57	3,648.57	3,648.57	19.15	73.92	-173.85	-440.62	3,141.43	3,921.89	3,833.96	87.93	44.600		
3,900.00	3,783.74	3,743.74	3,743.74	19.81	75.83	-173.90	-440.62	3,141.43	3,952.45	3,862.21	90.24	43.797		
4,000.00	3,878.90	3,838.90	3,838.90	20.46	77.75	-173.95	-440.62	3,141.43	3,983.02	3,890.46	92.56	43.034		
4,100.00	3,974.07	3,934.07	3,934.07	21.11	79.66	-174.00	-440.62	3,141.43	4,013.58	3,918.71	94.87	42.308		
4,200.00	4,069.23	4,029.23	4,029.23	21.77	81.58	-174.04	-440.62	3,141.43	4,044.15	3,946.97	97.18	41.616		
4,300.00	4,164.40	4,124.40	4,124.40	22.42	83.49	-174.09	-440.62	3,141.43	4,074.72	3,975.23	99.49	40.956		
4,400.00	4,259.56	4,219.56	4,219.56	23.08	85.40	-174.13	-440.62	3,141.43	4,105.29	4,003.48	101.80	40.326		
4,500.00	4,354.73	4,314.73	4,314.73	23.74	87.32	-174.17	-440.62	3,141.43	4,135.86	4,031.75	104.11	39.724		
4,600.00	4,449.89	4,409.89	4,409.89	24.39	89.23	-174.22	-440.62	3,141.43	4,166.44	4,060.01	106.43	39.148		
4,700.00	4,545.06	4,505.06	4,505.06	25.05	91.15	-174.26	-440.62	3,141.43	4,197.01	4,088.27	108.74	38.597		
4,800.00	4,640.22	4,600.22	4,600.22	25.71	93.06	-174.30	-440.62	3,141.43	4,227.59	4,116.54	111.05	38.068		
4,900.00	4,735.39	4,695.39	4,695.39	26.37	94.97	-174.34	-440.62	3,141.43	4,258.17	4,144.81	113.37	37.561		
5,000.00	4,830.55	4,790.55	4,790.55	27.03	96.89	-174.38	-440.62	3,141.43	4,288.76	4,173.08	115.68	37.074		
5,100.00	4,925.72	4,885.72	4,885.72	27.69	98.80	-174.42	-440.62	3,141.43	4,319.34	4,201.35	117.99	36.606		
5,200.00	5,020.88	4,980.88	4,980.88	28.35	100.71	-174.46	-440.62	3,141.43	4,349.93	4,229.62	120.31	36.156		
5,300.00	5,116.05	5,076.05	5,076.05	29.01	102.63	-174.50	-440.62	3,141.43	4,380.52	4,257.90	122.62	35.723		
5,400.00	5,211.21	5,171.21	5,171.21	29.67	104.54	-174.54	-440.62	3,141.43	4,411.11	4,286.17	124.94	35.306		
5,500.00	5,306.38	5,266.38	5,266.38	30.33	106.46	-174.58	-440.62	3,141.43	4,441.70	4,314.45	127.25	34.905		
5,600.00	5,401.54	5,361.54	5,361.54	30.99	108.37	-174.61	-440.62	3,141.43	4,472.30	4,342.73	129.57	34.517		
5,700.00	5,496.71	5,456.71	5,456.71	31.65	110.28	-179.22	-440.62	3,141.43	4,502.91	4,371.03	131.88	34.143		
5,800.00	5,591.13	5,551.13	5,551.13	32.30	112.18	150.58	-440.62	3,141.43	4,534.40	4,400.23	134.17	33.797		
5,900.00	5,682.22	5,642.22	5,642.22	32.92	114.01	130.63	-440.62	3,141.43	4,566.67	4,430.32	136.35	33.493		
6,000.00	5,767.23	5,727.23	5,727.23	33.50	115.72	118.08	-440.62	3,141.43	4,599.01	4,460.63	138.37	33.236		
6,100.00	5,843.56	5,803.56	5,803.56	34.04	117.26	109.61	-440.62	3,141.43	4,630.85	4,490.64	140.20	33.029		
6,200.00	5,908.90	5,868.90	5,868.90	34.53	118.57	103.46	-440.62	3,141.43	4,661.72	4,519.92	141.80	32.875		
6,300.00	5,961.25	5,921.25	5,921.25	34.99	119.63	98.74	-440.62	3,141.43	4,691.20	4,548.07	143.14	32.774		
6,400.00	5,999.04	5,959.04	5,959.04	35.42	120.39	95.00	-440.62	3,141.43	4,718.90	4,574.71	144.18	32.728 SF		
6,500.00	6,021.11	5,981.11	5,981.11	35.83	120.83	92.01	-440.62	3,141.43	4,744.35	4,599.43	144.92	32.737		
6,600.00	6,027.00	5,987.00	5,987.00	36.24	120.95	90.00	-440.62	3,141.43	4,767.13	4,621.79	145.34	32.800		
6,700.00	6,027.00	5,987.00	5,987.00	36.68	120.95	90.00	-440.62	3,141.43	4,790.10	4,644.41	145.69	32.880		
6,800.00	6,027.00	5,987.00	5,987.00	37.20	120.95	90.00	-440.62	3,141.43	4,815.03	4,668.95	146.09	32.960		
6,900.00	6,027.00	5,987.00	5,987.00	37.80	120.95	90.00	-440.62	3,141.43	4,841.90	4,695.37	146.53	33.043		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - ABND VERT PRONGHORN 41-16 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,000.00	6,027.00	5,987.00	5,987.00	38.47	120.95	90.00	-440.62	3,141.43	4,870.68	4,723.66	147.03	33.128		
7,100.00	6,027.00	5,987.00	5,987.00	39.21	120.95	90.00	-440.62	3,141.43	4,901.33	4,753.78	147.56	33.217		
7,200.00	6,027.00	5,987.00	5,987.00	40.02	120.95	90.00	-440.62	3,141.43	4,933.82	4,785.70	148.12	33.310		
7,300.00	6,027.00	5,987.00	5,987.00	40.89	120.95	90.00	-440.62	3,141.43	4,968.11	4,819.40	148.71	33.408		
7,400.00	6,027.00	5,987.00	5,987.00	41.83	120.95	90.00	-440.62	3,141.43	5,004.16	4,854.84	149.32	33.513		
7,500.00	6,027.00	5,987.00	5,987.00	42.83	120.95	90.00	-440.62	3,141.43	5,041.94	4,891.98	149.95	33.623		
7,600.00	6,027.00	5,987.00	5,987.00	43.88	120.95	90.00	-440.62	3,141.43	5,081.40	4,930.80	150.60	33.740		
7,700.00	6,027.00	5,987.00	5,987.00	44.99	120.95	90.00	-440.62	3,141.43	5,122.51	4,971.25	151.26	33.865		
7,800.00	6,027.00	5,987.00	5,987.00	46.14	120.95	90.00	-440.62	3,141.43	5,165.24	5,013.31	151.93	33.998		
7,900.00	6,027.00	5,987.00	5,987.00	47.33	120.95	90.00	-440.62	3,141.43	5,209.53	5,056.93	152.60	34.138		
8,000.00	6,027.00	5,987.00	5,987.00	48.57	120.95	90.00	-440.62	3,141.43	5,255.35	5,102.07	153.28	34.287		
8,100.00	6,027.00	5,987.00	5,987.00	49.84	120.95	90.00	-440.62	3,141.43	5,302.66	5,148.71	153.95	34.444		
8,200.00	6,027.00	5,987.00	5,987.00	51.15	120.95	90.00	-440.62	3,141.43	5,351.42	5,196.80	154.63	34.609		
8,300.00	6,027.00	5,987.00	5,987.00	52.48	120.95	90.00	-440.62	3,141.43	5,401.60	5,246.30	155.30	34.783		
8,400.00	6,027.00	5,987.00	5,987.00	53.85	120.95	90.00	-440.62	3,141.43	5,453.14	5,297.18	155.96	34.965		
8,500.00	6,027.00	5,987.00	5,987.00	55.24	120.95	90.00	-440.62	3,141.43	5,506.02	5,349.40	156.62	35.155		
8,600.00	6,027.00	5,987.00	5,987.00	56.65	120.95	90.00	-440.62	3,141.43	5,560.20	5,402.93	157.27	35.354		
8,700.00	6,027.00	5,987.00	5,987.00	58.08	120.95	90.00	-440.62	3,141.43	5,615.63	5,457.72	157.91	35.562		
8,800.00	6,027.00	5,987.00	5,987.00	59.54	120.95	90.00	-440.62	3,141.43	5,672.28	5,513.74	158.55	35.777		
8,900.00	6,027.00	5,987.00	5,987.00	61.01	120.95	90.00	-440.62	3,141.43	5,730.12	5,570.96	159.17	36.000		
9,000.00	6,027.00	5,987.00	5,987.00	62.50	120.95	90.00	-440.62	3,141.43	5,789.11	5,629.33	159.78	36.232		
9,100.00	6,027.00	5,987.00	5,987.00	64.01	120.95	90.00	-440.62	3,141.43	5,849.22	5,688.84	160.38	36.471		
9,200.00	6,027.00	5,987.00	5,987.00	65.53	120.95	90.00	-440.62	3,141.43	5,910.40	5,749.43	160.97	36.717		
9,300.00	6,027.00	5,987.00	5,987.00	67.06	120.95	90.00	-440.62	3,141.43	5,972.64	5,811.09	161.55	36.971		
9,400.00	6,027.00	5,987.00	5,987.00	68.61	120.95	90.00	-440.62	3,141.43	6,035.88	5,873.77	162.11	37.233		
9,500.00	6,027.00	5,987.00	5,987.00	70.17	120.95	90.00	-440.62	3,141.43	6,100.12	5,937.45	162.67	37.501		
9,600.00	6,027.00	5,987.00	5,987.00	71.73	120.95	90.00	-440.62	3,141.43	6,165.30	6,002.09	163.21	37.776		
9,700.00	6,027.00	5,987.00	5,987.00	73.31	120.95	90.00	-440.62	3,141.43	6,231.41	6,067.67	163.74	38.057		
9,800.00	6,027.00	5,987.00	5,987.00	74.90	120.95	90.00	-440.62	3,141.43	6,298.41	6,134.15	164.25	38.345		
9,900.00	6,027.00	5,987.00	5,987.00	76.50	120.95	90.00	-440.62	3,141.43	6,366.28	6,201.52	164.76	38.640		
10,000.00	6,027.00	5,987.00	5,987.00	78.10	120.95	90.00	-440.62	3,141.43	6,434.98	6,269.73	165.25	38.940		
10,100.00	6,027.00	5,987.00	5,987.00	79.71	120.95	90.00	-440.62	3,141.43	6,504.50	6,338.76	165.73	39.246		
10,200.00	6,027.00	5,987.00	5,987.00	81.33	120.95	90.00	-440.62	3,141.43	6,574.80	6,408.60	166.20	39.558		
10,300.00	6,027.00	5,987.00	5,987.00	82.96	120.95	90.00	-440.62	3,141.43	6,645.86	6,479.20	166.66	39.876		
10,400.00	6,027.00	5,987.00	5,987.00	84.59	120.95	90.00	-440.62	3,141.43	6,717.67	6,550.55	167.11	40.199		
10,500.00	6,027.00	5,987.00	5,987.00	86.23	120.95	90.00	-440.62	3,141.43	6,790.18	6,622.63	167.55	40.527		
10,600.00	6,027.00	5,987.00	5,987.00	87.87	120.95	90.00	-440.62	3,141.43	6,863.39	6,695.41	167.97	40.860		
10,700.00	6,027.00	5,987.00	5,987.00	89.52	120.95	90.00	-440.62	3,141.43	6,937.26	6,768.87	168.39	41.198		
10,800.00	6,027.00	5,987.00	5,987.00	91.17	120.95	90.00	-440.62	3,141.43	7,011.78	6,842.99	168.79	41.541		
10,900.00	6,027.00	5,987.00	5,987.00	92.83	120.95	90.00	-440.62	3,141.43	7,086.93	6,917.74	169.19	41.888		
11,000.00	6,027.00	5,987.00	5,987.00	94.49	120.95	90.00	-440.62	3,141.43	7,162.69	6,993.12	169.57	42.240		
11,100.00	6,027.00	5,987.00	5,987.00	96.16	120.95	90.00	-440.62	3,141.43	7,239.03	7,069.09	169.95	42.596		
11,200.00	6,027.00	5,987.00	5,987.00	97.83	120.95	90.00	-440.62	3,141.43	7,315.95	7,145.64	170.31	42.956		
11,300.00	6,027.00	5,987.00	5,987.00	99.50	120.95	90.00	-440.62	3,141.43	7,393.42	7,222.75	170.67	43.320		
11,400.00	6,027.00	5,987.00	5,987.00	101.18	120.95	90.00	-440.62	3,141.43	7,471.42	7,300.40	171.02	43.688		
11,500.00	6,027.00	5,987.00	5,987.00	102.86	120.95	90.00	-440.62	3,141.43	7,549.95	7,378.59	171.36	44.059		
11,600.00	6,027.00	5,987.00	5,987.00	104.54	120.95	90.00	-440.62	3,141.43	7,628.97	7,457.28	171.69	44.434		
11,700.00	6,027.00	5,987.00	5,987.00	106.23	120.95	90.00	-440.62	3,141.43	7,708.48	7,536.47	172.01	44.813		
11,800.00	6,027.00	5,987.00	5,987.00	107.92	120.95	90.00	-440.62	3,141.43	7,788.47	7,616.14	172.33	45.195		
11,900.00	6,027.00	5,987.00	5,987.00	109.61	120.95	90.00	-440.62	3,141.43	7,868.91	7,696.27	172.64	45.581		
12,000.00	6,027.00	5,987.00	5,987.00	111.31	120.95	90.00	-440.62	3,141.43	7,949.80	7,776.86	172.94	45.969		
12,100.00	6,027.00	5,987.00	5,987.00	113.00	120.95	90.00	-440.62	3,141.43	8,031.11	7,857.88	173.23	46.361		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - ABND VERT PRONGHORN 41-16 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
12,200.00	6,027.00	5,987.00	5,987.00	114.71	120.95	90.00	-440.62	3,141.43	8,112.85	7,939.33	173.52	46.755		
12,300.00	6,027.00	5,987.00	5,987.00	116.41	120.95	90.00	-440.62	3,141.43	8,194.99	8,021.19	173.80	47.152		
12,400.00	6,027.00	5,987.00	5,987.00	118.11	120.95	90.00	-440.62	3,141.43	8,277.52	8,103.45	174.07	47.552		
12,500.00	6,027.00	5,987.00	5,987.00	119.82	120.95	90.00	-440.62	3,141.43	8,360.43	8,186.09	174.34	47.955		
12,600.00	6,027.00	5,987.00	5,987.00	121.53	120.95	90.00	-440.62	3,141.43	8,443.72	8,269.12	174.60	48.361		
12,700.00	6,027.00	5,987.00	5,987.00	123.24	120.95	90.00	-440.62	3,141.43	8,527.36	8,352.50	174.85	48.768		
12,800.00	6,027.00	5,987.00	5,987.00	124.95	120.95	90.00	-440.62	3,141.43	8,611.35	8,436.25	175.10	49.179		
12,900.00	6,027.00	5,987.00	5,987.00	126.66	120.95	90.00	-440.62	3,141.43	8,695.68	8,520.33	175.35	49.591		
13,000.00	6,027.00	5,987.00	5,987.00	128.38	120.95	90.00	-440.62	3,141.43	8,780.34	8,604.76	175.59	50.006		
13,100.00	6,027.00	5,987.00	5,987.00	130.10	120.95	90.00	-440.62	3,141.43	8,865.32	8,689.50	175.82	50.423		
13,200.00	6,027.00	5,987.00	5,987.00	131.82	120.95	90.00	-440.62	3,141.43	8,950.61	8,774.56	176.05	50.842		
13,300.00	6,027.00	5,987.00	5,987.00	133.54	120.95	90.00	-440.62	3,141.43	9,036.20	8,859.93	176.27	51.263		
13,400.00	6,027.00	5,987.00	5,987.00	135.26	120.95	90.00	-440.62	3,141.43	9,122.09	8,945.60	176.49	51.686		
13,500.00	6,027.00	5,987.00	5,987.00	136.98	120.95	90.00	-440.62	3,141.43	9,208.26	9,031.55	176.70	52.111		
13,600.00	6,027.00	5,987.00	5,987.00	138.71	120.95	90.00	-440.62	3,141.43	9,294.70	9,117.79	176.91	52.538		
13,700.00	6,027.00	5,987.00	5,987.00	140.43	120.95	90.00	-440.62	3,141.43	9,381.42	9,204.30	177.12	52.967		
13,800.00	6,027.00	5,987.00	5,987.00	142.16	120.95	90.00	-440.62	3,141.43	9,468.40	9,291.07	177.32	53.397		
13,900.00	6,027.00	5,987.00	5,987.00	143.89	120.95	90.00	-440.62	3,141.43	9,555.63	9,378.11	177.52	53.829		
14,000.00	6,027.00	5,987.00	5,987.00	145.62	120.95	90.00	-440.62	3,141.43	9,643.11	9,465.40	177.71	54.263		
14,100.00	6,027.00	5,987.00	5,987.00	147.35	120.95	90.00	-440.62	3,141.43	9,730.83	9,552.93	177.90	54.698		
14,200.00	6,027.00	5,987.00	5,987.00	149.08	120.95	90.00	-440.62	3,141.43	9,818.79	9,640.70	178.09	55.135		
14,300.00	6,027.00	5,987.00	5,987.00	150.81	120.95	90.00	-440.62	3,141.43	9,906.97	9,728.70	178.27	55.573		
14,400.00	6,027.00	5,987.00	5,987.00	152.54	120.95	90.00	-440.62	3,141.43	9,995.38	9,816.93	178.45	56.013		
14,500.00	6,027.00	5,987.00	5,987.00	154.28	120.95	90.00	-440.62	3,141.43	10,084.00	9,905.38	178.62	56.454		
14,600.00	6,027.00	5,987.00	5,987.00	156.01	120.95	90.00	-440.62	3,141.43	10,172.84	9,994.04	178.80	56.896		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - ABND VERT STATE 1 (NO CSG) - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
100.00	100.00	50.00	50.00	0.27	1.20	-165.76	-3,369.87	-855.08	3,476.66	3,475.19	1.47	2,369.789	
200.00	200.00	150.00	150.00	0.63	3.44	-165.76	-3,369.87	-855.08	3,476.66	3,472.59	4.07	854.665	
300.00	300.00	250.00	250.00	0.99	5.50	-165.76	-3,369.87	-855.08	3,476.66	3,470.17	6.49	535.666	
400.00	400.00	350.00	350.00	1.34	7.54	-165.76	-3,369.87	-855.08	3,476.66	3,467.78	8.88	391.436	
500.00	500.00	450.00	450.00	1.70	9.56	-165.76	-3,369.87	-855.08	3,476.66	3,465.40	11.26	308.665	
600.00	600.00	550.00	550.00	2.06	11.58	-165.76	-3,369.87	-855.08	3,476.66	3,463.02	13.64	254.871	
700.00	700.00	650.00	650.00	2.42	13.60	-165.76	-3,369.87	-855.08	3,476.66	3,460.64	16.02	217.077	
800.00	800.00	750.00	750.00	2.78	15.61	-165.76	-3,369.87	-855.08	3,476.66	3,458.27	18.39	189.059	
900.00	900.00	850.00	850.00	3.14	17.63	-165.76	-3,369.87	-855.08	3,476.66	3,455.90	20.76	167.455	
1,000.00	999.98	949.98	949.98	3.49	19.64	-76.54	-3,369.87	-855.08	3,476.25	3,453.13	23.13	150.323	
1,100.00	1,099.84	1,049.84	1,049.84	3.83	21.65	-76.65	-3,369.87	-855.08	3,475.04	3,449.56	25.48	136.372	
1,200.00	1,199.45	1,149.45	1,149.45	4.19	23.65	-76.83	-3,369.87	-855.08	3,473.03	3,445.19	27.84	124.745	
1,300.00	1,298.70	1,248.70	1,248.70	4.55	25.65	-77.08	-3,369.87	-855.08	3,470.26	3,440.06	30.20	114.896	
1,400.00	1,397.47	1,347.47	1,347.47	4.94	27.64	-77.39	-3,369.87	-855.08	3,466.76	3,434.19	32.57	106.434	
1,500.00	1,495.62	1,445.62	1,445.62	5.34	29.61	-77.78	-3,369.87	-855.08	3,462.59	3,427.64	34.95	99.076	
1,600.00	1,593.06	1,543.06	1,543.06	5.78	31.57	-78.23	-3,369.87	-855.08	3,457.79	3,420.46	37.34	92.606	
1,700.00	1,689.64	1,639.64	1,639.64	6.24	33.52	-78.74	-3,369.87	-855.08	3,452.45	3,412.71	39.74	86.865	
1,800.00	1,785.27	1,735.27	1,735.27	6.75	35.44	-79.30	-3,369.87	-855.08	3,446.64	3,404.47	42.17	81.728	
1,900.00	1,880.44	1,830.44	1,830.44	7.30	37.35	-79.78	-3,369.87	-855.08	3,440.79	3,396.17	44.62	77.109	
2,000.00	1,975.60	1,925.60	1,925.60	7.86	39.27	-80.26	-3,369.87	-855.08	3,435.21	3,388.12	47.09	72.946	
2,100.00	2,070.77	2,020.77	2,020.77	8.43	41.18	-80.74	-3,369.87	-855.08	3,429.89	3,380.31	49.58	69.180	
2,200.00	2,165.93	2,115.93	2,115.93	9.02	43.10	-81.23	-3,369.87	-855.08	3,424.84	3,372.76	52.08	65.762	
2,300.00	2,261.10	2,211.10	2,211.10	9.62	45.01	-81.71	-3,369.87	-855.08	3,420.06	3,365.47	54.59	62.650	
2,400.00	2,356.26	2,306.26	2,306.26	10.23	46.92	-82.20	-3,369.87	-855.08	3,415.55	3,358.43	57.11	59.806	
2,500.00	2,451.43	2,401.43	2,401.43	10.84	48.84	-82.69	-3,369.87	-855.08	3,411.30	3,351.66	59.64	57.200	
2,600.00	2,546.59	2,496.59	2,496.59	11.46	50.75	-83.17	-3,369.87	-855.08	3,407.33	3,345.16	62.17	54.804	
2,700.00	2,641.76	2,591.76	2,591.76	12.09	52.67	-83.66	-3,369.87	-855.08	3,403.64	3,338.92	64.71	52.595	
2,800.00	2,736.92	2,686.92	2,686.92	12.72	54.58	-84.15	-3,369.87	-855.08	3,400.21	3,332.95	67.26	50.554	
2,900.00	2,832.09	2,782.09	2,782.09	13.35	56.49	-84.64	-3,369.87	-855.08	3,397.06	3,327.25	69.81	48.662	
3,000.00	2,927.25	2,877.25	2,877.25	13.99	58.41	-85.13	-3,369.87	-855.08	3,394.19	3,321.82	72.36	46.906	
3,100.00	3,022.42	2,972.42	2,972.42	14.63	60.32	-85.63	-3,369.87	-855.08	3,391.59	3,316.67	74.92	45.270	
3,200.00	3,117.58	3,067.58	3,067.58	15.27	62.24	-86.12	-3,369.87	-855.08	3,389.26	3,311.79	77.48	43.745	
3,300.00	3,212.75	3,162.75	3,162.75	15.91	64.15	-86.61	-3,369.87	-855.08	3,387.22	3,307.18	80.04	42.320	
3,400.00	3,307.91	3,257.91	3,257.91	16.56	66.06	-87.11	-3,369.87	-855.08	3,385.45	3,302.85	82.60	40.985	
3,500.00	3,403.08	3,353.08	3,353.08	17.20	67.98	-87.60	-3,369.87	-855.08	3,383.96	3,298.79	85.17	39.734	
3,600.00	3,498.24	3,448.24	3,448.24	17.85	69.89	-88.10	-3,369.87	-855.08	3,382.75	3,295.02	87.73	38.558	
3,700.00	3,593.41	3,543.41	3,543.41	18.50	71.81	-88.59	-3,369.87	-855.08	3,381.82	3,291.52	90.30	37.451	
3,800.00	3,688.57	3,638.57	3,638.57	19.15	73.72	-89.09	-3,369.87	-855.08	3,381.16	3,288.29	92.87	36.409	
3,900.00	3,783.74	3,733.74	3,733.74	19.81	75.63	-89.58	-3,369.87	-855.08	3,380.79	3,285.35	95.44	35.425	
3,984.51	3,864.16	3,814.16	3,814.16	20.36	77.25	-90.00	-3,369.87	-855.08	3,380.69	3,283.08	97.61	34.636 CC	
4,000.00	3,878.90	3,828.90	3,828.90	20.46	77.55	-90.08	-3,369.87	-855.08	3,380.69	3,282.69	98.00	34.495	
4,100.00	3,974.07	3,924.07	3,924.07	21.11	79.46	-90.57	-3,369.87	-855.08	3,380.87	3,280.30	100.57	33.616	
4,200.00	4,069.23	4,019.23	4,019.23	21.77	81.38	-91.07	-3,369.87	-855.08	3,381.33	3,278.19	103.14	32.783	
4,300.00	4,164.40	4,114.40	4,114.40	22.42	83.29	-91.56	-3,369.87	-855.08	3,382.08	3,276.36	105.71	31.993	
4,400.00	4,259.56	4,209.56	4,209.56	23.08	85.20	-92.06	-3,369.87	-855.08	3,383.09	3,274.81	108.28	31.244	
4,500.00	4,354.73	4,304.73	4,304.73	23.74	87.12	-92.55	-3,369.87	-855.08	3,384.39	3,273.54	110.85	30.532	
4,600.00	4,449.89	4,399.89	4,399.89	24.39	89.03	-93.05	-3,369.87	-855.08	3,385.97	3,272.55	113.42	29.855	
4,700.00	4,545.06	4,495.06	4,495.06	25.05	90.94	-93.54	-3,369.87	-855.08	3,387.82	3,271.84	115.98	29.210	
4,800.00	4,640.22	4,590.22	4,590.22	25.71	92.86	-94.03	-3,369.87	-855.08	3,389.95	3,271.41	118.55	28.596	
4,900.00	4,735.39	4,685.39	4,685.39	26.37	94.77	-94.53	-3,369.87	-855.08	3,392.36	3,271.25	121.11	28.010 ES	
5,000.00	4,830.55	4,780.55	4,780.55	27.03	96.69	-95.02	-3,369.87	-855.08	3,395.05	3,271.37	123.68	27.451	
5,100.00	4,925.72	4,875.72	4,875.72	27.69	98.60	-95.51	-3,369.87	-855.08	3,398.01	3,271.77	126.24	26.917	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - ABND VERT STATE 1 (NO CSG) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	4,970.88	4,970.88	28.35	100.51	-96.00	-3,369.87	-855.08	3,401.24	3,272.44	128.80	26.407		
5,300.00	5,116.05	5,066.05	5,066.05	29.01	102.43	-96.49	-3,369.87	-855.08	3,404.75	3,273.39	131.36	25.920		
5,400.00	5,211.21	5,161.21	5,161.21	29.67	104.34	-96.98	-3,369.87	-855.08	3,408.53	3,274.62	133.92	25.453		
5,500.00	5,306.38	5,256.38	5,256.38	30.33	106.25	-97.47	-3,369.87	-855.08	3,412.59	3,276.12	136.47	25.006		
5,600.00	5,401.54	5,351.54	5,351.54	30.99	108.17	-97.95	-3,369.87	-855.08	3,416.91	3,277.89	139.03	24.578		
5,700.00	5,496.71	5,446.71	5,446.71	31.65	110.08	-102.59	-3,369.87	-855.08	3,421.67	3,280.09	141.58	24.168		
5,800.00	5,591.13	5,541.13	5,541.13	32.30	111.98	-130.28	-3,369.87	-855.08	3,437.40	3,293.31	144.09	23.857		
5,900.00	5,682.22	5,632.22	5,632.22	32.92	113.81	-148.09	-3,369.87	-855.08	3,470.04	3,323.58	146.46	23.693		
6,000.00	5,767.23	5,717.23	5,717.23	33.50	115.52	-159.06	-3,369.87	-855.08	3,518.51	3,369.89	148.62	23.674 SF		
6,100.00	5,843.56	5,793.56	5,793.56	34.04	117.06	-166.71	-3,369.87	-855.08	3,581.26	3,430.74	150.51	23.794		
6,200.00	5,908.90	5,858.90	5,858.90	34.53	118.37	-173.25	-3,369.87	-855.08	3,656.29	3,504.22	152.08	24.043		
6,300.00	5,961.25	5,911.25	5,911.25	34.99	119.42	179.36	-3,369.87	-855.08	3,741.30	3,588.03	153.27	24.410		
6,400.00	5,999.04	5,949.04	5,949.04	35.42	120.18	167.44	-3,369.87	-855.08	3,833.69	3,679.61	154.08	24.882		
6,500.00	6,021.11	5,971.11	5,971.11	35.83	120.63	138.90	-3,369.87	-855.08	3,930.66	3,776.18	154.48	25.445		
6,600.00	6,027.00	5,977.00	5,977.00	36.24	120.75	90.00	-3,369.87	-855.08	4,029.31	3,874.83	154.49	26.082		
6,700.00	6,027.00	5,977.00	5,977.00	36.68	120.75	90.00	-3,369.87	-855.08	4,128.02	3,973.66	154.36	26.743		
6,800.00	6,027.00	5,977.00	5,977.00	37.20	120.75	90.00	-3,369.87	-855.08	4,226.79	4,072.55	154.24	27.403		
6,900.00	6,027.00	5,977.00	5,977.00	37.80	120.75	90.00	-3,369.87	-855.08	4,325.62	4,171.48	154.13	28.064		
7,000.00	6,027.00	5,977.00	5,977.00	38.47	120.75	90.00	-3,369.87	-855.08	4,424.50	4,270.47	154.03	28.725		
7,100.00	6,027.00	5,977.00	5,977.00	39.21	120.75	90.00	-3,369.87	-855.08	4,523.42	4,369.49	153.93	29.386		
7,200.00	6,027.00	5,977.00	5,977.00	40.02	120.75	90.00	-3,369.87	-855.08	4,622.40	4,468.56	153.84	30.047		
7,300.00	6,027.00	5,977.00	5,977.00	40.89	120.75	90.00	-3,369.87	-855.08	4,721.41	4,567.66	153.75	30.709		
7,400.00	6,027.00	5,977.00	5,977.00	41.83	120.75	90.00	-3,369.87	-855.08	4,820.47	4,666.80	153.67	31.370		
7,500.00	6,027.00	5,977.00	5,977.00	42.83	120.75	90.00	-3,369.87	-855.08	4,919.57	4,765.98	153.59	32.031		
7,600.00	6,027.00	5,977.00	5,977.00	43.88	120.75	90.00	-3,369.87	-855.08	5,018.70	4,865.18	153.52	32.692		
7,700.00	6,027.00	5,977.00	5,977.00	44.99	120.75	90.00	-3,369.87	-855.08	5,117.86	4,964.41	153.45	33.352		
7,800.00	6,027.00	5,977.00	5,977.00	46.14	120.75	90.00	-3,369.87	-855.08	5,217.06	5,063.68	153.38	34.013		
7,900.00	6,027.00	5,977.00	5,977.00	47.33	120.75	90.00	-3,369.87	-855.08	5,316.29	5,162.96	153.32	34.674		
8,000.00	6,027.00	5,977.00	5,977.00	48.57	120.75	90.00	-3,369.87	-855.08	5,415.54	5,262.28	153.27	35.334		
8,100.00	6,027.00	5,977.00	5,977.00	49.84	120.75	90.00	-3,369.87	-855.08	5,514.83	5,361.61	153.21	35.995		
8,200.00	6,027.00	5,977.00	5,977.00	51.15	120.75	90.00	-3,369.87	-855.08	5,614.13	5,460.97	153.16	36.655		
8,300.00	6,027.00	5,977.00	5,977.00	52.48	120.75	90.00	-3,369.87	-855.08	5,713.47	5,560.35	153.12	37.315		
8,400.00	6,027.00	5,977.00	5,977.00	53.85	120.75	90.00	-3,369.87	-855.08	5,812.82	5,659.75	153.07	37.974		
8,500.00	6,027.00	5,977.00	5,977.00	55.24	120.75	90.00	-3,369.87	-855.08	5,912.20	5,759.17	153.03	38.634		
8,600.00	6,027.00	5,977.00	5,977.00	56.65	120.75	90.00	-3,369.87	-855.08	6,011.59	5,858.60	152.99	39.293		
8,700.00	6,027.00	5,977.00	5,977.00	58.08	120.75	90.00	-3,369.87	-855.08	6,111.01	5,958.05	152.96	39.952		
8,800.00	6,027.00	5,977.00	5,977.00	59.54	120.75	90.00	-3,369.87	-855.08	6,210.45	6,057.52	152.93	40.611		
8,900.00	6,027.00	5,977.00	5,977.00	61.01	120.75	90.00	-3,369.87	-855.08	6,309.90	6,157.01	152.89	41.270		
9,000.00	6,027.00	5,977.00	5,977.00	62.50	120.75	90.00	-3,369.87	-855.08	6,409.37	6,256.50	152.87	41.928		
9,100.00	6,027.00	5,977.00	5,977.00	64.01	120.75	90.00	-3,369.87	-855.08	6,508.86	6,356.02	152.84	42.586		
9,200.00	6,027.00	5,977.00	5,977.00	65.53	120.75	90.00	-3,369.87	-855.08	6,608.36	6,455.54	152.82	43.243		
9,300.00	6,027.00	5,977.00	5,977.00	67.06	120.75	90.00	-3,369.87	-855.08	6,707.88	6,555.08	152.80	43.901		
9,400.00	6,027.00	5,977.00	5,977.00	68.61	120.75	90.00	-3,369.87	-855.08	6,807.41	6,654.63	152.78	44.557		
9,500.00	6,027.00	5,977.00	5,977.00	70.17	120.75	90.00	-3,369.87	-855.08	6,906.95	6,754.19	152.76	45.214		
9,600.00	6,027.00	5,977.00	5,977.00	71.73	120.75	90.00	-3,369.87	-855.08	7,006.51	6,853.77	152.75	45.870		
9,700.00	6,027.00	5,977.00	5,977.00	73.31	120.75	90.00	-3,369.87	-855.08	7,106.08	6,953.35	152.73	46.526		
9,800.00	6,027.00	5,977.00	5,977.00	74.90	120.75	90.00	-3,369.87	-855.08	7,205.66	7,052.94	152.72	47.182		
9,900.00	6,027.00	5,977.00	5,977.00	76.50	120.75	90.00	-3,369.87	-855.08	7,305.26	7,152.55	152.71	47.837		
10,000.00	6,027.00	5,977.00	5,977.00	78.10	120.75	90.00	-3,369.87	-855.08	7,404.86	7,252.16	152.70	48.491		
10,100.00	6,027.00	5,977.00	5,977.00	79.71	120.75	90.00	-3,369.87	-855.08	7,504.48	7,351.78	152.70	49.146		
10,200.00	6,027.00	5,977.00	5,977.00	81.33	120.75	90.00	-3,369.87	-855.08	7,604.10	7,451.41	152.69	49.799		
10,300.00	6,027.00	5,977.00	5,977.00	82.96	120.75	90.00	-3,369.87	-855.08	7,703.74	7,551.05	152.69	50.453		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	6,027.00	5,977.00	5,977.00	84.59	120.75	90.00	-3,369.87	-855.08	7,803.38	7,650.69	152.69	51.106	
10,500.00	6,027.00	5,977.00	5,977.00	86.23	120.75	90.00	-3,369.87	-855.08	7,903.04	7,750.34	152.69	51.758	
10,600.00	6,027.00	5,977.00	5,977.00	87.87	120.75	90.00	-3,369.87	-855.08	8,002.70	7,850.00	152.69	52.410	
10,700.00	6,027.00	5,977.00	5,977.00	89.52	120.75	90.00	-3,369.87	-855.08	8,102.37	7,949.67	152.70	53.062	
10,800.00	6,027.00	5,977.00	5,977.00	91.17	120.75	90.00	-3,369.87	-855.08	8,202.05	8,049.34	152.70	53.713	
10,900.00	6,027.00	5,977.00	5,977.00	92.83	120.75	90.00	-3,369.87	-855.08	8,301.73	8,149.02	152.71	54.364	
11,000.00	6,027.00	5,977.00	5,977.00	94.49	120.75	90.00	-3,369.87	-855.08	8,401.43	8,248.71	152.71	55.014	
11,100.00	6,027.00	5,977.00	5,977.00	96.16	120.75	90.00	-3,369.87	-855.08	8,501.13	8,348.40	152.72	55.664	
11,200.00	6,027.00	5,977.00	5,977.00	97.83	120.75	90.00	-3,369.87	-855.08	8,600.83	8,448.10	152.73	56.313	
11,300.00	6,027.00	5,977.00	5,977.00	99.50	120.75	90.00	-3,369.87	-855.08	8,700.55	8,547.80	152.74	56.961	
11,400.00	6,027.00	5,977.00	5,977.00	101.18	120.75	90.00	-3,369.87	-855.08	8,800.27	8,647.51	152.76	57.609	
11,500.00	6,027.00	5,977.00	5,977.00	102.86	120.75	90.00	-3,369.87	-855.08	8,900.00	8,747.22	152.77	58.257	
11,600.00	6,027.00	5,977.00	5,977.00	104.54	120.75	90.00	-3,369.87	-855.08	8,999.73	8,846.94	152.79	58.904	
11,700.00	6,027.00	5,977.00	5,977.00	106.23	120.75	90.00	-3,369.87	-855.08	9,099.47	8,946.66	152.80	59.550	
11,800.00	6,027.00	5,977.00	5,977.00	107.92	120.75	90.00	-3,369.87	-855.08	9,199.21	9,046.39	152.82	60.196	
11,900.00	6,027.00	5,977.00	5,977.00	109.61	120.75	90.00	-3,369.87	-855.08	9,298.96	9,146.12	152.84	60.841	
12,000.00	6,027.00	5,977.00	5,977.00	111.31	120.75	90.00	-3,369.87	-855.08	9,398.72	9,245.86	152.86	61.486	
12,100.00	6,027.00	5,977.00	5,977.00	113.00	120.75	90.00	-3,369.87	-855.08	9,498.48	9,345.60	152.88	62.130	
12,200.00	6,027.00	5,977.00	5,977.00	114.71	120.75	90.00	-3,369.87	-855.08	9,598.24	9,445.34	152.90	62.774	
12,300.00	6,027.00	5,977.00	5,977.00	116.41	120.75	90.00	-3,369.87	-855.08	9,698.01	9,545.09	152.92	63.417	
12,400.00	6,027.00	5,977.00	5,977.00	118.11	120.75	90.00	-3,369.87	-855.08	9,797.79	9,644.84	152.95	64.059	
12,500.00	6,027.00	5,977.00	5,977.00	119.82	120.75	90.00	-3,369.87	-855.08	9,897.57	9,744.59	152.97	64.701	
12,600.00	6,027.00	5,977.00	5,977.00	121.53	120.75	90.00	-3,369.87	-855.08	9,997.35	9,844.35	153.00	65.342	
12,700.00	6,027.00	5,977.00	5,977.00	123.24	120.75	90.00	-3,369.87	-855.08	10,097.14	9,944.11	153.03	65.983	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - ABND VERT STATE PRONGHORN 11-16 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-117.23	-349.73	-679.53	764.56				
100.00	100.00	78.00	78.00	0.27	1.83	-117.23	-349.73	-679.53	764.24	762.15	2.10	364.526	
200.00	200.00	178.00	178.00	0.63	3.98	-117.23	-349.73	-679.53	764.24	759.64	4.60	165.973	
300.00	300.00	278.00	278.00	0.99	6.03	-117.23	-349.73	-679.53	764.24	757.23	7.02	108.917	
400.00	400.00	378.00	378.00	1.34	8.06	-117.23	-349.73	-679.53	764.24	754.84	9.41	81.254	
500.00	500.00	478.00	478.00	1.70	10.08	-117.23	-349.73	-679.53	764.24	752.46	11.79	64.841	
600.00	600.00	578.00	578.00	2.06	12.10	-117.23	-349.73	-679.53	764.24	750.08	14.16	53.959	
700.00	700.00	678.00	678.00	2.42	14.12	-117.23	-349.73	-679.53	764.24	747.71	16.54	46.211	
800.00	800.00	778.00	778.00	2.78	16.13	-117.23	-349.73	-679.53	764.24	745.33	18.91	40.412	
900.00	900.00	878.00	878.00	3.14	18.15	-117.23	-349.73	-679.53	764.24	742.96	21.28	35.907	
1,000.00	999.98	977.98	977.98	3.49	20.16	-28.05	-349.73	-679.53	762.70	739.06	23.65	32.253	
1,100.00	1,099.84	1,077.84	1,077.84	3.83	22.17	-28.28	-349.73	-679.53	758.09	732.09	26.00	29.154	
1,200.00	1,199.45	1,177.45	1,177.45	4.19	24.18	-28.67	-349.73	-679.53	750.42	722.06	28.36	26.463	
1,300.00	1,298.70	1,276.70	1,276.70	4.55	26.17	-29.23	-349.73	-679.53	739.74	709.03	30.71	24.089	
1,400.00	1,397.47	1,375.47	1,375.47	4.94	28.16	-29.97	-349.73	-679.53	726.09	693.04	33.05	21.966	
1,500.00	1,495.62	1,473.62	1,473.62	5.34	30.13	-30.90	-349.73	-679.53	709.57	674.17	35.40	20.046	
1,600.00	1,593.06	1,571.06	1,571.06	5.78	32.10	-32.07	-349.73	-679.53	690.25	652.51	37.73	18.292	
1,700.00	1,689.64	1,667.64	1,667.64	6.24	34.04	-33.48	-349.73	-679.53	668.27	628.20	40.07	16.678	
1,800.00	1,785.27	1,763.27	1,763.27	6.75	35.96	-35.17	-349.73	-679.53	643.79	601.38	42.41	15.181	
1,900.00	1,880.44	1,858.44	1,858.44	7.30	37.88	-36.78	-349.73	-679.53	618.51	573.76	44.75	13.821	
2,000.00	1,975.60	1,953.60	1,953.60	7.86	39.79	-38.52	-349.73	-679.53	593.75	546.63	47.12	12.602	
2,100.00	2,070.77	2,048.77	2,048.77	8.43	41.70	-40.41	-349.73	-679.53	569.57	520.06	49.51	11.505	
2,200.00	2,165.93	2,143.93	2,143.93	9.02	43.62	-42.45	-349.73	-679.53	546.04	494.12	51.92	10.516	
2,300.00	2,261.10	2,239.10	2,239.10	9.62	45.53	-44.67	-349.73	-679.53	523.26	468.89	54.37	9.625	
2,400.00	2,356.26	2,334.26	2,334.26	10.23	47.45	-47.07	-349.73	-679.53	501.33	444.49	56.84	8.820	
2,500.00	2,451.43	2,429.43	2,429.43	10.84	49.36	-49.68	-349.73	-679.53	480.36	421.01	59.35	8.094	
2,600.00	2,546.59	2,524.59	2,524.59	11.46	51.28	-52.51	-349.73	-679.53	460.49	398.60	61.88	7.441	
2,700.00	2,641.76	2,619.76	2,619.76	12.09	53.19	-55.57	-349.73	-679.53	441.86	377.40	64.46	6.855	
2,800.00	2,736.92	2,714.92	2,714.92	12.72	55.10	-58.87	-349.73	-679.53	424.63	357.57	67.06	6.332	
2,900.00	2,832.09	2,810.09	2,810.09	13.35	57.02	-62.42	-349.73	-679.53	409.00	339.30	69.70	5.868	
3,000.00	2,927.25	2,905.25	2,905.25	13.99	58.93	-66.21	-349.73	-679.53	395.13	322.77	72.36	5.460	
3,100.00	3,022.42	3,000.42	3,000.42	14.63	60.85	-70.23	-349.73	-679.53	383.23	308.19	75.04	5.107	
3,200.00	3,117.58	3,095.58	3,095.58	15.27	62.76	-74.47	-349.73	-679.53	373.49	295.76	77.73	4.805	
3,300.00	3,212.75	3,190.75	3,190.75	15.91	64.67	-78.90	-349.73	-679.53	366.07	285.66	80.41	4.552	
3,400.00	3,307.91	3,285.91	3,285.91	16.56	66.59	-83.45	-349.73	-679.53	361.12	278.05	83.07	4.347	
3,500.00	3,403.08	3,381.08	3,381.08	17.20	68.50	-88.10	-349.73	-679.53	358.74	273.05	85.69	4.186	
3,540.73	3,441.84	3,419.84	3,419.84	17.47	69.28	-90.00	-349.73	-679.53	358.52	271.78	86.75	4.133 CC	
3,600.00	3,498.24	3,476.24	3,476.24	17.85	70.41	-92.77	-349.73	-679.53	358.99	270.72	88.26	4.067 ES	
3,700.00	3,593.41	3,571.41	3,571.41	18.50	72.33	-97.40	-349.73	-679.53	361.85	271.07	90.77	3.986	
3,800.00	3,688.57	3,666.57	3,666.57	19.15	74.24	-101.94	-349.73	-679.53	367.26	274.04	93.22	3.940	
3,900.00	3,783.74	3,761.74	3,761.74	19.81	76.16	-106.33	-349.73	-679.53	375.13	279.52	95.60	3.924 SF	
4,000.00	3,878.90	3,856.90	3,856.90	20.46	78.07	-110.53	-349.73	-679.53	385.28	287.36	97.92	3.935	
4,100.00	3,974.07	3,952.07	3,952.07	21.11	79.98	-114.51	-349.73	-679.53	397.56	297.37	100.20	3.968	
4,200.00	4,069.23	4,047.23	4,047.23	21.77	81.90	-118.26	-349.73	-679.53	411.77	309.35	102.42	4.020	
4,300.00	4,164.40	4,142.40	4,142.40	22.42	83.81	-121.76	-349.73	-679.53	427.71	323.09	104.62	4.088	
4,400.00	4,259.56	4,237.56	4,237.56	23.08	85.73	-125.02	-349.73	-679.53	445.21	338.42	106.79	4.169	
4,500.00	4,354.73	4,332.73	4,332.73	23.74	87.64	-128.03	-349.73	-679.53	464.08	355.13	108.95	4.260	
4,600.00	4,449.89	4,427.89	4,427.89	24.39	89.55	-130.82	-349.73	-679.53	484.17	373.07	111.09	4.358	
4,700.00	4,545.06	4,523.06	4,523.06	25.05	91.47	-133.39	-349.73	-679.53	505.32	392.09	113.24	4.462	
4,800.00	4,640.22	4,618.22	4,618.22	25.71	93.38	-135.76	-349.73	-679.53	527.42	412.04	115.38	4.571	
4,900.00	4,735.39	4,713.39	4,713.39	26.37	95.29	-137.94	-349.73	-679.53	550.35	432.82	117.53	4.683	
5,000.00	4,830.55	4,808.55	4,808.55	27.03	97.21	-139.95	-349.73	-679.53	574.00	454.32	119.68	4.796	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - ABND VERT STATE PRONGHORN 11-16 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,925.72	4,903.72	4,903.72	27.69	99.12	-141.81	-349.73	-679.53	598.30	476.46	121.84	4.911		
5,200.00	5,020.88	4,998.88	4,998.88	28.35	101.04	-143.53	-349.73	-679.53	623.16	499.16	124.00	5.026		
5,300.00	5,116.05	5,094.05	5,094.05	29.01	102.95	-145.12	-349.73	-679.53	648.53	522.36	126.17	5.140		
5,400.00	5,211.21	5,189.21	5,189.21	29.67	104.86	-146.59	-349.73	-679.53	674.34	545.99	128.35	5.254		
5,500.00	5,306.38	5,284.38	5,284.38	30.33	106.78	-147.95	-349.73	-679.53	700.55	570.01	130.54	5.367		
5,600.00	5,401.54	5,379.54	5,379.54	30.99	108.69	-149.22	-349.73	-679.53	727.11	594.38	132.73	5.478		
5,700.00	5,496.71	5,474.71	5,474.71	31.65	110.60	-154.87	-349.73	-679.53	754.06	619.13	134.93	5.588		
5,800.00	5,591.13	5,569.13	5,569.13	32.30	112.50	174.76	-349.73	-679.53	786.26	649.09	137.17	5.732		
5,900.00	5,682.22	5,660.22	5,660.22	32.92	114.34	154.81	-349.73	-679.53	825.82	686.43	139.39	5.925		
6,000.00	5,767.23	5,745.23	5,745.23	33.50	116.05	142.14	-349.73	-679.53	872.09	730.57	141.52	6.162		
6,100.00	5,843.56	5,821.56	5,821.56	34.04	117.58	133.04	-349.73	-679.53	924.79	781.30	143.49	6.445		
6,200.00	5,908.90	5,886.90	5,886.90	34.53	118.89	125.29	-349.73	-679.53	983.69	838.46	145.22	6.774		
6,300.00	5,961.25	5,939.25	5,939.25	34.99	119.95	117.51	-349.73	-679.53	1,048.33	901.67	146.65	7.148		
6,400.00	5,999.04	5,977.04	5,977.04	35.42	120.71	108.85	-349.73	-679.53	1,117.84	970.11	147.74	7.566		
6,500.00	6,021.11	5,999.11	5,999.11	35.83	121.15	98.98	-349.73	-679.53	1,190.89	1,042.45	148.44	8.023		
6,600.00	6,027.00	6,005.00	6,005.00	36.24	121.27	90.00	-349.73	-679.53	1,265.71	1,116.95	148.76	8.508		
6,700.00	6,027.00	6,005.00	6,005.00	36.68	121.27	90.00	-349.73	-679.53	1,342.83	1,193.91	148.92	9.017		
6,800.00	6,027.00	6,005.00	6,005.00	37.20	121.27	90.00	-349.73	-679.53	1,422.81	1,273.75	149.06	9.545		
6,900.00	6,027.00	6,005.00	6,005.00	37.80	121.27	90.00	-349.73	-679.53	1,505.18	1,356.00	149.17	10.090		
7,000.00	6,027.00	6,005.00	6,005.00	38.47	121.27	90.00	-349.73	-679.53	1,589.57	1,440.30	149.27	10.649		
7,100.00	6,027.00	6,005.00	6,005.00	39.21	121.27	90.00	-349.73	-679.53	1,675.68	1,526.33	149.35	11.220		
7,200.00	6,027.00	6,005.00	6,005.00	40.02	121.27	90.00	-349.73	-679.53	1,763.26	1,613.84	149.42	11.801		
7,300.00	6,027.00	6,005.00	6,005.00	40.89	121.27	90.00	-349.73	-679.53	1,852.09	1,702.62	149.47	12.391		
7,400.00	6,027.00	6,005.00	6,005.00	41.83	121.27	90.00	-349.73	-679.53	1,942.02	1,792.49	149.53	12.988		
7,500.00	6,027.00	6,005.00	6,005.00	42.83	121.27	90.00	-349.73	-679.53	2,032.88	1,883.31	149.57	13.592		
7,600.00	6,027.00	6,005.00	6,005.00	43.88	121.27	90.00	-349.73	-679.53	2,124.57	1,974.96	149.61	14.201		
7,700.00	6,027.00	6,005.00	6,005.00	44.99	121.27	90.00	-349.73	-679.53	2,216.97	2,067.32	149.65	14.815		
7,800.00	6,027.00	6,005.00	6,005.00	46.14	121.27	90.00	-349.73	-679.53	2,310.01	2,160.33	149.68	15.433		
7,900.00	6,027.00	6,005.00	6,005.00	47.33	121.27	90.00	-349.73	-679.53	2,403.60	2,253.89	149.71	16.055		
8,000.00	6,027.00	6,005.00	6,005.00	48.57	121.27	90.00	-349.73	-679.53	2,497.69	2,347.96	149.74	16.680		
8,100.00	6,027.00	6,005.00	6,005.00	49.84	121.27	90.00	-349.73	-679.53	2,592.23	2,442.46	149.76	17.309		
8,200.00	6,027.00	6,005.00	6,005.00	51.15	121.27	90.00	-349.73	-679.53	2,687.16	2,537.37	149.79	17.940		
8,300.00	6,027.00	6,005.00	6,005.00	52.48	121.27	90.00	-349.73	-679.53	2,782.45	2,632.63	149.81	18.573		
8,400.00	6,027.00	6,005.00	6,005.00	53.85	121.27	90.00	-349.73	-679.53	2,878.05	2,728.21	149.84	19.208		
8,500.00	6,027.00	6,005.00	6,005.00	55.24	121.27	90.00	-349.73	-679.53	2,973.95	2,824.08	149.86	19.844		
8,600.00	6,027.00	6,005.00	6,005.00	56.65	121.27	90.00	-349.73	-679.53	3,070.10	2,920.22	149.89	20.483		
8,700.00	6,027.00	6,005.00	6,005.00	58.08	121.27	90.00	-349.73	-679.53	3,166.50	3,016.59	149.91	21.123		
8,800.00	6,027.00	6,005.00	6,005.00	59.54	121.27	90.00	-349.73	-679.53	3,263.11	3,113.17	149.93	21.764		
8,900.00	6,027.00	6,005.00	6,005.00	61.01	121.27	90.00	-349.73	-679.53	3,359.92	3,209.96	149.96	22.406		
9,000.00	6,027.00	6,005.00	6,005.00	62.50	121.27	90.00	-349.73	-679.53	3,456.91	3,306.93	149.98	23.049		
9,100.00	6,027.00	6,005.00	6,005.00	64.01	121.27	90.00	-349.73	-679.53	3,554.07	3,404.06	150.00	23.693		
9,200.00	6,027.00	6,005.00	6,005.00	65.53	121.27	90.00	-349.73	-679.53	3,651.38	3,501.35	150.03	24.338		
9,300.00	6,027.00	6,005.00	6,005.00	67.06	121.27	90.00	-349.73	-679.53	3,748.83	3,598.78	150.05	24.983		
9,400.00	6,027.00	6,005.00	6,005.00	68.61	121.27	90.00	-349.73	-679.53	3,846.42	3,696.34	150.08	25.629		
9,500.00	6,027.00	6,005.00	6,005.00	70.17	121.27	90.00	-349.73	-679.53	3,944.12	3,794.02	150.10	26.276		
9,600.00	6,027.00	6,005.00	6,005.00	71.73	121.27	90.00	-349.73	-679.53	4,041.94	3,891.81	150.13	26.923		
9,700.00	6,027.00	6,005.00	6,005.00	73.31	121.27	90.00	-349.73	-679.53	4,139.86	3,989.70	150.16	27.570		
9,800.00	6,027.00	6,005.00	6,005.00	74.90	121.27	90.00	-349.73	-679.53	4,237.88	4,087.69	150.18	28.218		
9,900.00	6,027.00	6,005.00	6,005.00	76.50	121.27	90.00	-349.73	-679.53	4,335.99	4,185.78	150.21	28.866		
10,000.00	6,027.00	6,005.00	6,005.00	78.10	121.27	90.00	-349.73	-679.53	4,434.18	4,283.94	150.24	29.514		
10,100.00	6,027.00	6,005.00	6,005.00	79.71	121.27	90.00	-349.73	-679.53	4,532.45	4,382.18	150.27	30.162		
10,200.00	6,027.00	6,005.00	6,005.00	81.33	121.27	90.00	-349.73	-679.53	4,630.80	4,480.50	150.30	30.810		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - ABND VERT STATE PRONGHORN 11-16 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	6,005.00	6,005.00	82.96	121.27	90.00	-349.73	-679.53	4,729.22	4,578.89	150.33	31.459		
10,400.00	6,027.00	6,005.00	6,005.00	84.59	121.27	90.00	-349.73	-679.53	4,827.70	4,677.34	150.36	32.107		
10,500.00	6,027.00	6,005.00	6,005.00	86.23	121.27	90.00	-349.73	-679.53	4,926.24	4,775.85	150.39	32.756		
10,600.00	6,027.00	6,005.00	6,005.00	87.87	121.27	90.00	-349.73	-679.53	5,024.84	4,874.42	150.42	33.404		
10,700.00	6,027.00	6,005.00	6,005.00	89.52	121.27	90.00	-349.73	-679.53	5,123.49	4,973.04	150.46	34.053		
10,800.00	6,027.00	6,005.00	6,005.00	91.17	121.27	90.00	-349.73	-679.53	5,222.20	5,071.71	150.49	34.701		
10,900.00	6,027.00	6,005.00	6,005.00	92.83	121.27	90.00	-349.73	-679.53	5,320.95	5,170.43	150.53	35.349		
11,000.00	6,027.00	6,005.00	6,005.00	94.49	121.27	90.00	-349.73	-679.53	5,419.75	5,269.19	150.56	35.997		
11,100.00	6,027.00	6,005.00	6,005.00	96.16	121.27	90.00	-349.73	-679.53	5,518.60	5,368.00	150.60	36.645		
11,200.00	6,027.00	6,005.00	6,005.00	97.83	121.27	90.00	-349.73	-679.53	5,617.48	5,466.85	150.63	37.293		
11,300.00	6,027.00	6,005.00	6,005.00	99.50	121.27	90.00	-349.73	-679.53	5,716.40	5,565.73	150.67	37.940		
11,400.00	6,027.00	6,005.00	6,005.00	101.18	121.27	90.00	-349.73	-679.53	5,815.36	5,664.65	150.71	38.587		
11,500.00	6,027.00	6,005.00	6,005.00	102.86	121.27	90.00	-349.73	-679.53	5,914.36	5,763.61	150.74	39.234		
11,600.00	6,027.00	6,005.00	6,005.00	104.54	121.27	90.00	-349.73	-679.53	6,013.38	5,862.60	150.78	39.881		
11,700.00	6,027.00	6,005.00	6,005.00	106.23	121.27	90.00	-349.73	-679.53	6,112.44	5,961.62	150.82	40.527		
11,800.00	6,027.00	6,005.00	6,005.00	107.92	121.27	90.00	-349.73	-679.53	6,211.53	6,060.67	150.86	41.173		
11,900.00	6,027.00	6,005.00	6,005.00	109.61	121.27	90.00	-349.73	-679.53	6,310.65	6,159.75	150.90	41.819		
12,000.00	6,027.00	6,005.00	6,005.00	111.31	121.27	90.00	-349.73	-679.53	6,409.79	6,258.85	150.95	42.464		
12,100.00	6,027.00	6,005.00	6,005.00	113.00	121.27	90.00	-349.73	-679.53	6,508.97	6,357.98	150.99	43.109		
12,200.00	6,027.00	6,005.00	6,005.00	114.71	121.27	90.00	-349.73	-679.53	6,608.16	6,457.13	151.03	43.754		
12,300.00	6,027.00	6,005.00	6,005.00	116.41	121.27	90.00	-349.73	-679.53	6,707.38	6,556.31	151.07	44.398		
12,400.00	6,027.00	6,005.00	6,005.00	118.11	121.27	90.00	-349.73	-679.53	6,806.63	6,655.51	151.12	45.042		
12,500.00	6,027.00	6,005.00	6,005.00	119.82	121.27	90.00	-349.73	-679.53	6,905.89	6,754.73	151.16	45.685		
12,600.00	6,027.00	6,005.00	6,005.00	121.53	121.27	90.00	-349.73	-679.53	7,005.18	6,853.97	151.21	46.328		
12,700.00	6,027.00	6,005.00	6,005.00	123.24	121.27	90.00	-349.73	-679.53	7,104.48	6,953.23	151.25	46.970		
12,800.00	6,027.00	6,005.00	6,005.00	124.95	121.27	90.00	-349.73	-679.53	7,203.81	7,052.51	151.30	47.612		
12,900.00	6,027.00	6,005.00	6,005.00	126.66	121.27	90.00	-349.73	-679.53	7,303.15	7,151.80	151.35	48.254		
13,000.00	6,027.00	6,005.00	6,005.00	128.38	121.27	90.00	-349.73	-679.53	7,402.51	7,251.12	151.40	48.895		
13,100.00	6,027.00	6,005.00	6,005.00	130.10	121.27	90.00	-349.73	-679.53	7,501.89	7,350.45	151.45	49.535		
13,200.00	6,027.00	6,005.00	6,005.00	131.82	121.27	90.00	-349.73	-679.53	7,601.29	7,449.79	151.49	50.175		
13,300.00	6,027.00	6,005.00	6,005.00	133.54	121.27	90.00	-349.73	-679.53	7,700.70	7,549.15	151.54	50.815		
13,400.00	6,027.00	6,005.00	6,005.00	135.26	121.27	90.00	-349.73	-679.53	7,800.12	7,648.53	151.60	51.454		
13,500.00	6,027.00	6,005.00	6,005.00	136.98	121.27	90.00	-349.73	-679.53	7,899.56	7,747.92	151.65	52.092		
13,600.00	6,027.00	6,005.00	6,005.00	138.71	121.27	90.00	-349.73	-679.53	7,999.02	7,847.32	151.70	52.730		
13,700.00	6,027.00	6,005.00	6,005.00	140.43	121.27	90.00	-349.73	-679.53	8,098.48	7,946.73	151.75	53.367		
13,800.00	6,027.00	6,005.00	6,005.00	142.16	121.27	90.00	-349.73	-679.53	8,197.96	8,046.16	151.80	54.004		
13,900.00	6,027.00	6,005.00	6,005.00	143.89	121.27	90.00	-349.73	-679.53	8,297.46	8,145.60	151.86	54.640		
14,000.00	6,027.00	6,005.00	6,005.00	145.62	121.27	90.00	-349.73	-679.53	8,396.96	8,245.05	151.91	55.275		
14,100.00	6,027.00	6,005.00	6,005.00	147.35	121.27	90.00	-349.73	-679.53	8,496.48	8,344.51	151.97	55.910		
14,200.00	6,027.00	6,005.00	6,005.00	149.08	121.27	90.00	-349.73	-679.53	8,596.01	8,443.98	152.02	56.545		
14,300.00	6,027.00	6,005.00	6,005.00	150.81	121.27	90.00	-349.73	-679.53	8,695.54	8,543.47	152.08	57.178		
14,400.00	6,027.00	6,005.00	6,005.00	152.54	121.27	90.00	-349.73	-679.53	8,795.09	8,642.96	152.13	57.811		
14,500.00	6,027.00	6,005.00	6,005.00	154.28	121.27	90.00	-349.73	-679.53	8,894.65	8,742.46	152.19	58.444		
14,600.00	6,027.00	6,005.00	6,005.00	156.01	121.27	90.00	-349.73	-679.53	8,994.22	8,841.97	152.25	59.076		
14,700.00	6,027.00	6,005.00	6,005.00	157.75	121.27	90.00	-349.73	-679.53	9,093.80	8,941.49	152.31	59.707		
14,800.00	6,027.00	6,005.00	6,005.00	159.49	121.27	90.00	-349.73	-679.53	9,193.39	9,041.02	152.37	60.337		
14,900.00	6,027.00	6,005.00	6,005.00	161.22	121.27	90.00	-349.73	-679.53	9,292.98	9,140.56	152.43	60.967		
15,000.00	6,027.00	6,005.00	6,005.00	162.96	121.27	90.00	-349.73	-679.53	9,392.59	9,240.10	152.49	61.596		
15,100.00	6,027.00	6,005.00	6,005.00	164.70	121.27	90.00	-349.73	-679.53	9,492.20	9,339.65	152.55	62.225		
15,200.00	6,027.00	6,005.00	6,005.00	166.44	121.27	90.00	-349.73	-679.53	9,591.82	9,439.21	152.61	62.853		
15,300.00	6,027.00	6,005.00	6,005.00	168.18	121.27	90.00	-349.73	-679.53	9,691.45	9,538.78	152.67	63.480		
15,400.00	6,027.00	6,005.00	6,005.00	169.93	121.27	90.00	-349.73	-679.53	9,791.09	9,638.36	152.73	64.106		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		SEC 16-T5N-R61W - ABND VERT STATE PRONGHORN 11-16 - OWB - Design #1										<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-INC												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	6,005.00	6,005.00	171.67	121.27	90.00	-349.73	-679.53	9,890.73	9,737.94	152.80	64.732	
15,600.00	6,027.00	6,005.00	6,005.00	173.41	121.27	90.00	-349.73	-679.53	9,990.38	9,837.52	152.86	65.357	
15,700.00	6,027.00	6,005.00	6,005.00	175.15	121.27	90.00	-349.73	-679.53	10,090.04	9,937.12	152.92	65.981	

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 16-T5N-R61W - EXIST HZ KUNSEMILLER 5-61-20-0801B2B - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 800-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	86.50	86.50	0.27	0.30	-168.60	-5,994.71	-1,208.67	6,115.34	6,114.77	0.57	N/A		
200.00	200.00	186.50	186.50	0.63	0.65	-168.60	-5,994.71	-1,208.67	6,115.34	6,114.06	1.28	4,769.839		
300.00	300.00	2,909.00	2,801.35	0.99	14.04	-166.63	-5,415.08	-1,287.03	6,107.70	6,095.35	12.35	494.410		
400.00	400.00	2,957.47	2,844.81	1.34	14.41	-166.54	-5,393.96	-1,290.70	6,066.63	6,053.78	12.85	472.073		
500.00	500.00	3,003.00	2,885.97	1.70	14.75	-166.46	-5,374.77	-1,294.10	6,026.63	6,013.27	13.37	450.881		
600.00	600.00	3,003.00	2,885.97	2.06	14.75	-166.46	-5,374.77	-1,294.10	5,987.52	5,973.83	13.69	437.420		
700.00	700.00	3,049.35	2,928.17	2.42	15.09	-166.38	-5,355.90	-1,297.48	5,949.30	5,935.06	14.24	417.809		
800.00	800.00	3,096.00	2,970.95	2.78	15.43	-166.30	-5,337.59	-1,300.77	5,912.17	5,897.36	14.80	399.432		
900.00	900.00	3,096.00	2,970.95	3.14	15.43	-166.30	-5,337.59	-1,300.77	5,875.95	5,860.80	15.16	387.672		
1,000.00	999.98	3,144.81	3,016.01	3.49	15.77	-77.72	-5,319.15	-1,304.15	5,840.28	5,824.55	15.73	371.244		
1,100.00	1,099.84	3,190.00	3,058.00	3.83	16.09	-78.41	-5,302.73	-1,307.24	5,805.00	5,788.72	16.29	356.367		
1,200.00	1,199.45	3,242.24	3,106.72	4.19	16.44	-79.12	-5,284.18	-1,310.59	5,769.82	5,752.94	16.88	341.790		
1,300.00	1,298.70	3,361.43	3,217.87	4.55	17.26	-79.86	-5,241.73	-1,317.50	5,733.92	5,716.14	17.78	322.560		
1,400.00	1,397.47	3,453.53	3,303.50	4.94	17.89	-80.65	-5,208.40	-1,323.78	5,697.11	5,678.54	18.57	306.760		
1,500.00	1,495.62	3,501.07	3,347.73	5.34	18.22	-81.45	-5,191.36	-1,327.48	5,660.30	5,641.11	19.19	294.978		
1,600.00	1,593.06	3,566.00	3,408.41	5.78	18.66	-82.28	-5,168.84	-1,332.59	5,624.00	5,604.09	19.91	282.520		
1,700.00	1,689.64	3,599.15	3,439.48	6.24	18.89	-83.10	-5,157.58	-1,335.27	5,587.83	5,567.31	20.51	272.401		
1,800.00	1,785.27	3,660.00	3,496.47	6.75	19.29	-83.92	-5,136.89	-1,340.46	5,551.72	5,530.44	21.28	260.912		
1,900.00	1,880.44	3,721.15	3,553.90	7.30	19.70	-84.04	-5,116.48	-1,345.39	5,516.01	5,493.94	22.07	249.944		
2,000.00	1,975.60	3,754.00	3,584.89	7.86	19.91	-84.11	-5,105.84	-1,347.67	5,481.17	5,458.42	22.76	240.842		
2,100.00	2,070.77	3,796.43	3,625.09	8.43	20.18	-84.20	-5,092.55	-1,350.44	5,447.29	5,423.79	23.50	231.807		
2,200.00	2,165.93	3,849.00	3,675.16	9.02	20.51	-84.31	-5,076.89	-1,353.83	5,414.61	5,390.32	24.30	222.863		
2,300.00	2,261.10	3,849.00	3,675.16	9.62	20.51	-84.31	-5,076.89	-1,353.83	5,382.87	5,357.98	24.89	216.277		
2,400.00	2,356.26	3,905.23	3,729.00	10.23	20.84	-84.44	-5,061.04	-1,357.29	5,352.11	5,326.40	25.72	208.130		
2,500.00	2,451.43	3,941.00	3,763.38	10.84	21.05	-84.52	-5,051.38	-1,359.35	5,322.42	5,295.95	26.47	201.084		
2,600.00	2,546.59	3,977.67	3,798.73	11.46	21.25	-84.61	-5,041.88	-1,361.37	5,293.81	5,266.58	27.23	194.426		
2,700.00	2,641.76	4,035.00	3,854.26	12.09	21.57	-84.76	-5,027.95	-1,364.44	5,266.52	5,238.44	28.07	187.604		
2,800.00	2,736.92	4,035.00	3,854.26	12.72	21.57	-84.76	-5,027.95	-1,364.44	5,240.10	5,211.40	28.70	182.573		
2,900.00	2,832.09	4,108.82	3,926.01	13.35	21.96	-84.94	-5,011.06	-1,368.45	5,214.61	5,185.00	29.61	176.084		
3,000.00	2,927.25	4,156.54	3,972.47	13.99	22.20	-85.06	-5,000.52	-1,371.14	5,189.98	5,159.55	30.43	170.553		
3,100.00	3,022.42	4,223.00	4,037.39	14.63	22.54	-85.24	-4,986.73	-1,374.68	5,166.50	5,135.18	31.32	164.967		
3,200.00	3,117.58	4,259.92	4,073.52	15.27	22.72	-85.33	-4,979.40	-1,376.51	5,143.75	5,111.65	32.10	160.263		
3,300.00	3,212.75	4,336.70	4,148.73	15.91	23.09	-85.54	-4,964.29	-1,380.00	5,121.54	5,088.52	33.02	155.102		
3,400.00	3,307.91	4,411.00	4,221.63	16.56	23.44	-85.75	-4,950.25	-1,382.91	5,100.04	5,066.10	33.94	150.288		
3,500.00	3,403.08	4,411.00	4,221.63	17.20	23.44	-85.75	-4,950.25	-1,382.91	5,079.54	5,044.95	34.58	146.885		
3,600.00	3,498.24	4,456.77	4,266.69	17.85	23.64	-85.89	-4,942.37	-1,384.41	5,060.18	5,024.80	35.39	142.994		
3,700.00	3,593.41	4,505.00	4,314.38	18.50	23.85	-86.04	-4,935.27	-1,385.69	5,042.55	5,006.35	36.20	139.289		
3,800.00	3,688.57	4,505.00	4,314.38	19.15	23.85	-86.04	-4,935.27	-1,385.69	5,026.02	4,989.17	36.84	136.423		
3,900.00	3,783.74	4,552.85	4,361.82	19.81	24.03	-86.19	-4,929.14	-1,386.84	5,010.89	4,973.24	37.65	133.106		
4,000.00	3,878.90	4,599.00	4,407.64	20.46	24.21	-86.33	-4,923.79	-1,388.06	4,996.95	4,958.51	38.44	129.980		
4,100.00	3,974.07	4,639.48	4,447.88	21.11	24.35	-86.46	-4,919.52	-1,389.13	4,984.15	4,944.93	39.22	127.092		
4,200.00	4,069.23	4,693.00	4,501.14	21.77	24.54	-86.63	-4,914.43	-1,390.40	4,972.45	4,932.42	40.04	124.200		
4,300.00	4,164.40	4,735.21	4,543.19	22.42	24.69	-86.77	-4,910.83	-1,391.24	4,961.81	4,921.00	40.81	121.589		
4,400.00	4,259.56	4,787.00	4,594.82	23.08	24.86	-86.94	-4,906.89	-1,391.98	4,952.21	4,910.59	41.61	119.006		
4,500.00	4,354.73	4,823.30	4,631.04	23.74	24.97	-87.06	-4,904.51	-1,392.39	4,943.76	4,901.40	42.35	116.722		
4,600.00	4,449.89	4,881.00	4,688.66	24.39	25.14	-87.26	-4,901.59	-1,393.00	4,936.69	4,893.52	43.17	114.347		
4,700.00	4,545.06	4,881.00	4,688.66	25.05	25.14	-87.26	-4,901.59	-1,393.00	4,930.79	4,887.03	43.77	112.655		
4,800.00	4,640.22	4,932.54	4,740.17	25.71	25.28	-87.44	-4,899.89	-1,393.58	4,926.19	4,881.64	44.55	110.576		
4,900.00	4,735.39	4,974.00	4,781.62	26.37	25.39	-87.58	-4,899.20	-1,394.12	4,923.01	4,877.72	45.29	108.700		
5,000.00	4,830.55	5,015.89	4,823.51	27.03	25.49	-87.72	-4,898.96	-1,394.65	4,921.05	4,875.03	46.02	106.938		
5,100.00	4,925.72	5,068.00	4,875.62	27.69	25.61	-87.90	-4,899.11	-1,395.14	4,920.15	4,873.37	46.78	105.174		
5,200.00	5,020.88	5,201.56	5,009.17	28.35	25.92	-88.38	-4,899.08	-1,395.28	4,918.98	4,871.12	47.86	102.783		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 16-T5N-R61W - EXIST HZ KUNSEMILLER 5-61-20-0801B2B - OWB - FINAL SURVEY		Offset Site Error:		0.00 usft
Survey Program: 800-MWD OWSG															Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
5,300.00	5,116.05	5,264.49	5,072.10	29.01	26.07	-88.61	-4,899.32	-1,395.07	4,918.49	4,869.82	48.66	101.074					
5,400.00	5,211.21	5,378.00	5,185.61	29.67	26.33	-89.02	-4,899.72	-1,394.33	4,918.16	4,868.50	49.65	99.047					
5,464.87	5,272.95	5,430.96	5,238.57	30.09	26.46	-89.21	-4,899.90	-1,394.40	4,918.06	4,867.84	50.22	97.923	CC				
5,500.00	5,306.38	5,465.12	5,272.73	30.33	26.54	-89.33	-4,900.04	-1,394.64	4,918.08	4,867.53	50.55	97.286					
5,600.00	5,401.54	5,569.48	5,377.09	30.99	26.78	-89.70	-4,900.36	-1,394.70	4,918.13	4,866.61	51.52	95.468					
5,600.01	5,401.55	5,569.49	5,377.10	30.99	26.78	-89.70	-4,900.36	-1,394.70	4,918.13	4,866.61	51.52	95.467					
5,700.00	5,496.71	5,630.00	5,437.61	31.65	26.93	-94.06	-4,900.48	-1,394.50	4,918.55	4,866.24	52.31	94.024	ES				
5,800.00	5,591.13	5,698.85	5,506.40	32.30	27.10	-121.27	-4,901.02	-1,396.94	4,930.57	4,877.43	53.15	92.775					
5,900.00	5,682.22	5,911.00	5,705.94	32.92	27.74	-138.10	-4,899.86	-1,461.89	4,957.85	4,903.12	54.73	90.594					
6,000.00	5,767.23	5,948.45	5,737.53	33.50	27.87	-147.54	-4,899.36	-1,481.98	5,001.82	4,946.38	55.44	90.223	SF				
6,100.00	5,843.56	5,969.36	5,754.90	34.04	27.94	-153.06	-4,899.40	-1,493.62	5,061.76	5,005.79	55.97	90.432					
6,200.00	5,908.90	6,006.00	5,784.83	34.53	28.07	-156.20	-4,900.02	-1,514.76	5,135.54	5,079.01	56.53	90.840					
6,300.00	5,961.25	6,006.00	5,784.83	34.99	28.07	-157.99	-4,900.02	-1,514.76	5,220.13	5,163.36	56.77	91.958					
6,400.00	5,999.04	6,021.48	5,797.33	35.42	28.12	-158.14	-4,900.43	-1,523.87	5,312.95	5,255.91	57.04	93.151					
6,500.00	6,021.11	6,045.18	5,816.49	35.83	28.19	-153.82	-4,901.04	-1,537.81	5,410.77	5,353.47	57.30	94.424					
6,600.00	6,027.00	6,049.28	5,819.81	36.24	28.21	-9.38	-4,901.14	-1,540.22	5,510.60	5,453.23	57.37	96.062					
6,700.00	6,027.00	6,046.22	5,817.33	36.68	28.20	-8.75	-4,901.06	-1,538.42	5,610.54	5,553.18	57.35	97.822					
6,800.00	6,027.00	6,043.13	5,814.83	37.20	28.19	-8.13	-4,900.98	-1,536.61	5,710.47	5,653.13	57.34	99.584					
6,900.00	6,027.00	6,040.02	5,812.32	37.80	28.18	-7.52	-4,900.91	-1,534.78	5,810.41	5,753.08	57.33	101.347					
7,000.00	6,027.00	6,036.88	5,809.78	38.47	28.17	-6.92	-4,900.83	-1,532.93	5,910.35	5,853.03	57.32	103.111					
7,100.00	6,027.00	6,033.72	5,807.23	39.21	28.16	-6.32	-4,900.74	-1,531.08	6,010.29	5,952.98	57.31	104.876					
7,200.00	6,027.00	6,030.54	5,804.65	40.02	28.14	-5.74	-4,900.66	-1,529.20	6,110.23	6,052.94	57.30	106.643					
7,300.00	6,027.00	6,027.33	5,802.06	40.89	28.13	-5.16	-4,900.58	-1,527.31	6,210.17	6,152.89	57.28	108.411					
7,400.00	6,027.00	6,024.09	5,799.44	41.83	28.12	-4.59	-4,900.50	-1,525.41	6,310.12	6,252.85	57.27	110.180					
7,500.00	6,027.00	6,020.83	5,796.81	42.83	28.11	-4.03	-4,900.41	-1,523.49	6,410.06	6,352.80	57.26	111.950					
7,600.00	6,027.00	6,017.54	5,794.15	43.88	28.10	-3.48	-4,900.33	-1,521.55	6,510.00	6,452.76	57.25	113.721					
7,700.00	6,027.00	6,014.23	5,791.47	44.99	28.09	-2.93	-4,900.24	-1,519.60	6,609.94	6,552.71	57.23	115.494					
7,800.00	6,027.00	6,010.89	5,788.77	46.14	28.08	-2.40	-4,900.15	-1,517.64	6,709.89	6,652.67	57.22	117.267					
7,900.00	6,027.00	6,007.52	5,786.05	47.33	28.07	-1.87	-4,900.06	-1,515.65	6,809.83	6,752.63	57.21	119.042					
8,000.00	6,027.00	6,006.00	5,784.83	48.57	28.07	-1.64	-4,900.02	-1,514.76	6,909.78	6,852.57	57.21	120.783					
8,100.00	6,027.00	6,006.00	5,784.83	49.84	28.07	-1.64	-4,900.02	-1,514.76	7,009.72	6,952.50	57.22	122.494					
8,200.00	6,027.00	6,006.00	5,784.83	51.15	28.07	-1.64	-4,900.02	-1,514.76	7,109.67	7,052.43	57.24	124.204					
8,300.00	6,027.00	6,006.00	5,784.83	52.48	28.07	-1.64	-4,900.02	-1,514.76	7,209.62	7,152.36	57.26	125.911					
8,400.00	6,027.00	6,006.00	5,784.83	53.85	28.07	-1.64	-4,900.02	-1,514.76	7,309.57	7,252.29	57.28	127.617					
8,500.00	6,027.00	6,006.00	5,784.83	55.24	28.07	-1.64	-4,900.02	-1,514.76	7,409.52	7,352.23	57.30	129.320					
8,600.00	6,027.00	6,006.00	5,784.83	56.65	28.07	-1.64	-4,900.02	-1,514.76	7,509.47	7,452.16	57.32	131.021					
8,700.00	6,027.00	6,006.00	5,784.83	58.08	28.07	-1.64	-4,900.02	-1,514.76	7,609.43	7,552.09	57.33	132.720					
8,800.00	6,027.00	6,006.00	5,784.83	59.54	28.07	-1.64	-4,900.02	-1,514.76	7,709.38	7,652.03	57.35	134.416					
8,900.00	6,027.00	6,006.00	5,784.83	61.01	28.07	-1.64	-4,900.02	-1,514.76	7,809.34	7,751.97	57.38	136.110					
9,000.00	6,027.00	6,006.00	5,784.83	62.50	28.07	-1.64	-4,900.02	-1,514.76	7,909.30	7,851.90	57.40	137.802					
9,100.00	6,027.00	6,006.00	5,784.83	64.01	28.07	-1.64	-4,900.02	-1,514.76	8,009.26	7,951.84	57.42	139.491					
9,200.00	6,027.00	6,006.00	5,784.83	65.53	28.07	-1.64	-4,900.02	-1,514.76	8,109.22	8,051.78	57.44	141.177					
9,300.00	6,027.00	6,006.00	5,784.83	67.06	28.07	-1.64	-4,900.02	-1,514.76	8,209.18	8,151.71	57.46	142.861					
9,400.00	6,027.00	6,006.00	5,784.83	68.61	28.07	-1.64	-4,900.02	-1,514.76	8,309.14	8,251.65	57.49	144.543					
9,500.00	6,027.00	6,006.00	5,784.83	70.17	28.07	-1.64	-4,900.02	-1,514.76	8,409.10	8,351.59	57.51	146.222					
9,600.00	6,027.00	6,006.00	5,784.83	71.73	28.07	-1.64	-4,900.02	-1,514.76	8,509.06	8,451.53	57.53	147.898					
9,700.00	6,027.00	6,006.00	5,784.83	73.31	28.07	-1.64	-4,900.02	-1,514.76	8,609.03	8,551.47	57.56	149.571					
9,800.00	6,027.00	6,006.00	5,784.83	74.90	28.07	-1.64	-4,900.02	-1,514.76	8,708.99	8,651.41	57.58	151.242					
9,900.00	6,027.00	6,006.00	5,784.83	76.50	28.07	-1.64	-4,900.02	-1,514.76	8,808.96	8,751.35	57.61	152.910					
10,000.00	6,027.00	6,006.00	5,784.83	78.10	28.07	-1.64	-4,900.02	-1,514.76	8,908.93	8,851.29	57.64	154.575					
10,100.00	6,027.00	6,006.00	5,784.83	79.71	28.07	-1.64	-4,900.02	-1,514.76	9,008.89	8,951.23	57.66	156.237					
10,200.00	6,027.00	6,006.00	5,784.83	81.33	28.07	-1.64	-4,900.02	-1,514.76	9,108.86	9,051.17	57.69	157.896					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 800-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	6,027.00	6,006.00	5,784.83	82.96	28.07	-1.64	-4,900.02	-1,514.76	9,208.83	9,151.11	57.72	159.552	
10,400.00	6,027.00	6,006.00	5,784.83	84.59	28.07	-1.64	-4,900.02	-1,514.76	9,308.80	9,251.06	57.75	161.205	
10,500.00	6,027.00	6,006.00	5,784.83	86.23	28.07	-1.64	-4,900.02	-1,514.76	9,408.77	9,351.00	57.77	162.854	
10,600.00	6,027.00	6,006.00	5,784.83	87.87	28.07	-1.64	-4,900.02	-1,514.76	9,508.74	9,450.94	57.80	164.501	
10,700.00	6,027.00	6,006.00	5,784.83	89.52	28.07	-1.64	-4,900.02	-1,514.76	9,608.71	9,550.88	57.83	166.145	
10,800.00	6,027.00	6,006.00	5,784.83	91.17	28.07	-1.64	-4,900.02	-1,514.76	9,708.68	9,650.82	57.86	167.785	
10,900.00	6,027.00	6,006.00	5,784.83	92.83	28.07	-1.64	-4,900.02	-1,514.76	9,808.66	9,750.76	57.89	169.422	
11,000.00	6,027.00	6,006.00	5,784.83	94.49	28.07	-1.64	-4,900.02	-1,514.76	9,908.63	9,850.70	57.93	171.056	
11,100.00	6,027.00	6,006.00	5,784.83	96.16	28.07	-1.64	-4,900.02	-1,514.76	10,008.60	9,950.65	57.96	172.687	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 480-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.00	2.00	0.00	0.01	-83.37	29.15	-250.64	252.33				
100.00	100.00	102.00	102.00	0.27	0.35	-83.37	29.15	-250.64	252.33	251.71	0.62	405.974	
200.00	200.00	202.00	202.00	0.63	0.70	-83.37	29.15	-250.64	252.33	251.01	1.33	190.325	
300.00	300.00	302.00	302.00	0.99	1.04	-83.37	29.15	-250.64	252.33	250.30	2.03	124.299	
400.00	400.00	402.00	402.00	1.34	1.39	-83.37	29.15	-250.64	252.33	249.60	2.73	92.284	
500.00	500.00	503.07	503.07	1.70	1.74	-83.36	29.18	-250.59	252.28	248.84	3.44	73.253	
575.03	575.03	577.03	577.03	1.97	2.00	-83.29	29.43	-250.15	251.87	247.90	3.97	63.418	
600.00	600.00	600.52	600.52	2.06	2.08	-83.24	29.65	-250.19	251.95	247.80	4.14	60.803	
700.00	700.00	697.55	697.52	2.42	2.43	-82.91	31.29	-251.41	253.39	248.54	4.85	52.292	
800.00	800.00	797.90	797.84	2.78	2.78	-82.52	33.21	-252.79	255.00	249.44	5.56	45.859	
900.00	900.00	900.94	900.87	3.14	3.14	-82.50	33.39	-253.63	255.82	249.55	6.27	40.793	
1,000.00	999.98	993.05	992.96	3.49	3.45	6.77	33.52	-255.49	256.11	249.17	6.93	36.938	
1,100.00	1,099.84	1,087.87	1,087.67	3.83	3.79	7.29	35.79	-259.49	255.42	247.81	7.61	33.574	
1,200.00	1,199.45	1,180.98	1,180.51	4.19	4.13	8.14	39.34	-265.44	253.67	245.39	8.27	30.656	
1,300.00	1,298.70	1,273.94	1,272.98	4.55	4.47	9.24	43.92	-273.85	251.33	242.39	8.94	28.114	
1,400.00	1,397.47	1,371.19	1,369.53	4.94	4.84	10.51	48.78	-284.38	247.45	237.82	9.63	25.686	
1,500.00	1,495.62	1,466.25	1,463.80	5.34	5.20	11.72	52.80	-296.00	241.50	231.18	10.32	23.411	
1,600.00	1,593.06	1,561.09	1,557.53	5.78	5.58	12.80	55.84	-310.07	234.56	223.56	11.00	21.324	
1,700.00	1,689.64	1,654.54	1,649.61	6.24	5.96	13.94	58.54	-325.76	226.19	214.51	11.68	19.368	
1,800.00	1,785.27	1,752.54	1,745.72	6.75	6.37	15.86	63.48	-344.31	217.24	204.82	12.42	17.494	
1,900.00	1,880.44	1,852.93	1,844.36	7.30	6.81	18.17	68.56	-362.22	206.03	192.83	13.20	15.609	
2,000.00	1,975.60	1,953.23	1,942.97	7.86	7.24	21.22	75.08	-379.34	195.01	181.00	14.01	13.919	
2,100.00	2,070.77	2,050.01	2,038.16	8.43	7.67	24.71	81.88	-395.39	184.39	169.57	14.82	12.440	
2,200.00	2,165.93	2,150.65	2,137.07	9.02	8.11	29.20	90.41	-411.90	175.14	159.41	15.73	11.132	
2,300.00	2,261.10	2,246.32	2,231.14	9.62	8.54	34.25	99.29	-426.88	166.89	150.23	16.66	10.018	
2,400.00	2,356.26	2,347.55	2,330.64	10.23	8.99	40.52	109.85	-442.20	160.55	142.80	17.75	9.046	
2,500.00	2,451.43	2,449.00	2,430.71	10.84	9.43	46.87	118.03	-456.74	153.91	135.00	18.91	8.138	
2,600.00	2,546.59	2,544.85	2,525.31	11.46	9.85	53.53	125.96	-469.95	149.10	128.99	20.11	7.415	
2,648.86	2,593.09	2,590.42	2,570.18	11.77	10.06	56.89	130.52	-476.47	148.42	127.72	20.70	7.170 CC, ES	
2,700.00	2,641.76	2,639.06	2,617.95	12.09	10.28	60.48	136.02	-483.82	149.12	127.78	21.34	6.988	
2,800.00	2,736.92	2,739.36	2,716.46	12.72	10.73	67.59	147.01	-499.17	152.07	129.40	22.68	6.706	
2,900.00	2,832.09	2,843.15	2,818.82	13.35	11.19	74.88	156.16	-513.65	154.86	130.82	24.04	6.441	
3,000.00	2,927.25	2,946.14	2,921.05	13.99	11.61	82.81	161.68	-524.64	156.09	130.76	25.34	6.161	
3,100.00	3,022.42	3,043.15	3,017.63	14.63	11.99	90.83	165.62	-532.84	158.90	132.42	26.47	6.002 SF	
3,200.00	3,117.58	3,135.71	3,109.81	15.27	12.35	98.45	170.91	-539.34	166.68	139.27	27.41	6.081	
3,300.00	3,212.75	3,229.18	3,202.39	15.91	12.74	104.25	179.66	-548.66	180.05	151.80	28.25	6.373	
3,400.00	3,307.91	3,326.21	3,297.64	16.56	13.18	107.87	191.26	-562.99	195.89	166.71	29.18	6.713	
3,500.00	3,403.08	3,423.98	3,393.17	17.20	13.65	110.34	203.97	-579.48	212.55	182.39	30.16	7.047	
3,600.00	3,498.24	3,521.60	3,488.23	17.85	14.13	112.07	217.40	-597.17	229.73	198.57	31.16	7.372	
3,700.00	3,593.41	3,620.21	3,584.46	18.50	14.61	113.82	230.77	-614.05	247.32	215.16	32.16	7.690	
3,800.00	3,688.57	3,721.63	3,683.70	19.15	15.10	115.62	243.37	-630.75	264.42	231.25	33.18	7.970	
3,900.00	3,783.74	3,825.50	3,785.75	19.81	15.58	117.64	253.86	-647.01	280.13	245.97	34.17	8.199	
4,000.00	3,878.90	3,928.07	3,887.16	20.46	16.03	120.17	260.60	-660.74	294.32	259.29	35.03	8.402	
4,100.00	3,974.07	4,027.35	3,985.71	21.11	16.44	122.96	264.79	-672.01	308.23	272.45	35.78	8.615	
4,200.00	4,069.23	4,129.77	4,087.23	21.77	16.87	125.42	269.02	-684.81	322.03	285.48	36.55	8.810	
4,300.00	4,164.40	4,228.09	4,184.65	22.42	17.28	127.57	272.49	-697.67	335.52	298.23	37.29	8.998	
4,400.00	4,259.56	4,329.00	4,284.54	23.08	17.71	129.56	275.48	-711.66	348.49	310.45	38.04	9.162	
4,500.00	4,354.73	4,423.00	4,377.44	23.74	18.12	131.03	280.22	-725.11	363.03	324.24	38.79	9.360	
4,600.00	4,449.89	4,516.13	4,469.36	24.39	18.54	132.13	287.36	-738.25	379.77	340.20	39.57	9.598	
4,700.00	4,545.06	4,614.00	4,565.68	25.05	18.99	132.99	295.38	-753.59	395.97	355.54	40.43	9.794	
4,800.00	4,640.22	4,710.00	4,659.84	25.71	19.45	133.47	305.36	-769.36	413.24	371.90	41.34	9.997	
4,900.00	4,735.39	4,794.50	4,742.78	26.37	19.84	133.85	315.61	-781.88	432.78	390.67	42.10	10.279	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 480-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,830.55	4,889.26	4,836.17	27.03	20.27	134.51	326.54	-793.57	453.78	410.85	42.93	10.570	
5,100.00	4,925.72	4,992.50	4,938.22	27.69	20.71	135.39	336.91	-805.25	474.60	430.77	43.82	10.830	
5,200.00	5,020.88	5,092.26	5,037.26	28.35	21.12	136.58	343.80	-814.96	494.61	450.04	44.58	11.096	
5,300.00	5,116.05	5,189.57	5,134.26	29.01	21.48	138.11	347.22	-821.85	514.65	469.47	45.18	11.390	
5,400.00	5,211.21	5,283.24	5,227.79	29.67	21.81	139.75	348.79	-826.70	535.37	489.67	45.69	11.717	
5,500.00	5,306.38	5,379.00	5,323.47	30.33	22.13	141.47	349.35	-830.47	556.83	510.65	46.18	12.058	
5,600.00	5,401.54	5,471.32	5,415.75	30.99	22.43	143.12	349.15	-833.12	579.15	532.54	46.61	12.424	
5,700.00	5,496.71	5,562.98	5,507.40	31.65	22.71	140.31	348.85	-834.89	602.56	555.52	47.04	12.811	
5,800.00	5,591.13	5,668.07	5,612.47	32.30	23.03	114.47	347.82	-836.42	620.68	573.22	47.46	13.078	
5,900.00	5,682.22	5,758.22	5,698.70	32.92	23.83	119.12	348.88	-837.25	600.99	556.14	44.85	13.400	
6,000.00	5,767.23	5,841.85	5,780.31	33.50	23.86	113.91	196.72	-876.58	585.65	540.22	45.43	12.891	
6,061.75	5,815.54	5,892.95	5,832.73	33.83	23.86	111.42	188.54	-877.65	582.83	537.21	45.63	12.774	
6,100.00	5,843.56	5,919.46	5,859.72	34.04	23.87	109.60	187.42	-877.80	583.94	538.27	45.67	12.786	
6,200.00	5,908.90	6,055.54	5,952.79	34.53	23.86	103.86	194.02	-876.93	597.08	551.67	45.41	13.147	
6,300.00	5,961.25	6,108.65	5,941.28	34.99	23.84	97.36	206.27	-875.25	623.25	578.48	44.77	13.921	
6,400.00	5,999.04	6,147.00	5,976.05	35.42	23.82	90.37	221.45	-872.81	659.26	615.17	44.10	14.950	
6,500.00	6,021.11	6,169.29	5,998.74	35.83	23.79	83.45	237.34	-869.69	701.55	657.86	43.69	16.059	
6,600.00	6,027.00	6,175.66	5,885.34	36.24	23.75	77.43	256.57	-865.12	746.86	703.34	43.51	17.164	
6,700.00	6,027.00	6,182.88	5,861.35	36.68	23.70	75.51	273.62	-860.65	797.44	753.88	43.57	18.304	
6,800.00	6,027.00	6,189.89	5,840.32	37.20	23.65	73.87	286.61	-856.95	855.02	811.22	43.80	19.519	
6,900.00	6,027.00	6,196.90	5,823.93	37.80	23.61	72.62	295.58	-854.24	918.66	874.44	44.22	20.773	
7,000.00	6,027.00	6,204.00	5,795.37	38.47	23.54	70.49	309.34	-849.90	987.38	943.05	44.33	22.274	
7,100.00	6,027.00	6,211.00	5,795.37	39.21	23.54	70.49	309.34	-849.90	1,060.31	1,015.16	45.15	23.485	
7,200.00	6,027.00	6,218.00	5,765.03	40.02	23.46	68.31	321.62	-845.73	1,136.82	1,091.62	45.20	25.148	
7,300.00	6,027.00	6,225.00	5,765.03	40.89	23.46	68.31	321.62	-845.73	1,216.25	1,170.35	45.90	26.500	
7,400.00	6,027.00	6,232.00	5,753.41	41.83	23.43	67.49	325.66	-844.24	1,298.33	1,252.05	46.28	28.052	
7,500.00	6,027.00	6,239.00	5,735.73	42.83	23.38	66.27	331.09	-842.17	1,382.67	1,336.15	46.52	29.721	
7,600.00	6,027.00	6,246.00	5,735.73	43.88	23.38	66.27	331.09	-842.17	1,468.60	1,421.58	47.02	31.234	
7,700.00	6,027.00	6,253.00	5,735.73	44.99	23.38	66.27	331.09	-842.17	1,556.21	1,508.76	47.46	32.793	
7,800.00	6,027.00	6,260.00	5,723.67	46.14	23.35	65.45	334.30	-840.93	1,645.05	1,597.38	47.68	34.505	
7,900.00	6,027.00	6,267.00	5,717.88	47.33	23.33	65.06	335.71	-840.41	1,735.06	1,687.10	47.95	36.183	
8,000.00	6,027.00	6,274.00	5,704.76	48.57	23.30	64.17	338.57	-839.38	1,826.10	1,777.99	48.11	37.954	
8,100.00	6,027.00	6,281.00	5,704.76	49.84	23.30	64.17	338.57	-839.38	1,917.85	1,869.45	48.40	39.622	
8,200.00	6,027.00	6,288.00	5,704.76	51.15	23.30	64.17	338.57	-839.38	2,010.39	1,961.73	48.67	41.311	
8,300.00	6,027.00	6,295.00	5,704.76	52.48	23.30	64.17	338.57	-839.38	2,103.61	2,054.71	48.90	43.018	
8,400.00	6,027.00	6,302.00	5,704.76	53.85	23.30	64.17	338.57	-839.38	2,197.43	2,148.31	49.12	44.740	
8,500.00	6,027.00	6,309.00	5,704.76	55.24	23.30	64.17	338.57	-839.38	2,291.77	2,242.46	49.31	46.476	
8,600.00	6,027.00	6,316.00	5,690.80	56.65	23.26	63.24	341.13	-838.52	2,386.32	2,336.95	49.37	48.335	
8,700.00	6,027.00	6,323.00	5,688.16	58.08	23.25	63.07	341.55	-838.37	2,481.43	2,431.91	49.52	50.111	
8,800.00	6,027.00	6,330.00	5,673.22	59.54	23.21	62.09	343.66	-837.69	2,577.08	2,527.52	49.56	51.997	
8,900.00	6,027.00	6,337.00	5,673.22	61.01	23.21	62.09	343.66	-837.69	2,672.80	2,623.09	49.71	53.766	
9,000.00	6,027.00	6,344.00	5,673.22	62.50	23.21	62.09	343.66	-837.69	2,768.82	2,718.96	49.85	55.541	
9,100.00	6,027.00	6,351.00	5,673.22	64.01	23.21	62.09	343.66	-837.69	2,865.11	2,815.12	49.98	57.322	
9,200.00	6,027.00	6,358.00	5,673.22	65.53	23.21	62.09	343.66	-837.69	2,961.64	2,911.54	50.11	59.107	
9,300.00	6,027.00	6,365.00	5,673.22	67.06	23.21	62.09	343.66	-837.69	3,058.40	3,008.18	50.22	60.898	
9,400.00	6,027.00	6,372.00	5,673.22	68.61	23.21	62.09	343.66	-837.69	3,155.36	3,105.03	50.33	62.691	
9,500.00	6,027.00	6,379.00	5,673.22	70.17	23.21	62.09	343.66	-837.69	3,252.51	3,202.07	50.44	64.487	
9,600.00	6,027.00	6,386.00	5,673.22	71.73	23.21	62.09	343.66	-837.69	3,349.82	3,299.28	50.54	66.286	
9,700.00	6,027.00	6,393.00	5,673.22	73.31	23.21	62.09	343.66	-837.69	3,447.29	3,396.65	50.63	68.087	
9,800.00	6,027.00	6,400.00	5,673.22	74.90	23.21	62.09	343.66	-837.69	3,544.89	3,494.17	50.72	69.888	
9,900.00	6,027.00	6,407.00	5,673.22	76.50	23.21	62.09	343.66	-837.69	3,642.63	3,591.82	50.81	71.691	
10,000.00	6,027.00	6,414.00	5,673.22	78.10	23.21	62.09	343.66	-837.69	3,740.49	3,689.59	50.89	73.495	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 480-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	6,027.00	5,729.00	5,673.22	79.71	23.21	62.09	343.66	-837.69	3,838.46	3,787.48	50.98	75.298		
10,200.00	6,027.00	5,729.00	5,673.22	81.33	23.21	62.09	343.66	-837.69	3,936.53	3,885.47	51.06	77.102		
10,300.00	6,027.00	5,729.00	5,673.22	82.96	23.21	62.09	343.66	-837.69	4,034.69	3,983.56	51.13	78.905		
10,400.00	6,027.00	5,729.00	5,673.22	84.59	23.21	62.09	343.66	-837.69	4,132.94	4,081.73	51.21	80.708		
10,500.00	6,027.00	5,729.00	5,673.22	86.23	23.21	62.09	343.66	-837.69	4,231.28	4,179.99	51.28	82.510		
10,600.00	6,027.00	5,714.17	5,658.48	87.87	23.17	61.13	345.23	-837.21	4,329.45	4,278.17	51.28	84.420		
10,700.00	6,027.00	5,713.22	5,657.53	89.52	23.17	61.07	345.32	-837.18	4,427.90	4,376.55	51.35	86.227		
10,800.00	6,027.00	5,712.31	5,656.62	91.17	23.16	61.01	345.40	-837.16	4,526.42	4,475.00	51.42	88.032		
10,900.00	6,027.00	5,711.43	5,655.75	92.83	23.16	60.96	345.47	-837.14	4,625.00	4,573.51	51.48	89.835		
11,000.00	6,027.00	5,697.00	5,641.36	94.49	23.12	60.04	346.49	-836.85	4,723.83	4,672.34	51.49	91.744		
11,100.00	6,027.00	5,697.00	5,641.36	96.16	23.12	60.04	346.49	-836.85	4,822.50	4,770.94	51.56	93.537		
11,200.00	6,027.00	5,697.00	5,641.36	97.83	23.12	60.04	346.49	-836.85	4,921.22	4,869.60	51.62	95.327		
11,300.00	6,027.00	5,697.00	5,641.36	99.50	23.12	60.04	346.49	-836.85	5,020.00	4,968.31	51.69	97.116		
11,400.00	6,027.00	5,697.00	5,641.36	101.18	23.12	60.04	346.49	-836.85	5,118.82	5,067.06	51.76	98.902		
11,500.00	6,027.00	5,697.00	5,641.36	102.86	23.12	60.04	346.49	-836.85	5,217.68	5,165.86	51.82	100.686		
11,600.00	6,027.00	5,697.00	5,641.36	104.54	23.12	60.04	346.49	-836.85	5,316.59	5,264.70	51.89	102.467		
11,700.00	6,027.00	5,697.00	5,641.36	106.23	23.12	60.04	346.49	-836.85	5,415.54	5,363.59	51.95	104.245		
11,800.00	6,027.00	5,697.00	5,641.36	107.92	23.12	60.04	346.49	-836.85	5,514.53	5,462.51	52.01	106.020		
11,900.00	6,027.00	5,697.00	5,641.36	109.61	23.12	60.04	346.49	-836.85	5,613.55	5,561.47	52.08	107.792		
12,000.00	6,027.00	5,697.00	5,641.36	111.31	23.12	60.04	346.49	-836.85	5,712.60	5,660.46	52.14	109.562		
12,100.00	6,027.00	5,697.00	5,641.36	113.00	23.12	60.04	346.49	-836.85	5,811.69	5,759.49	52.20	111.328		
12,200.00	6,027.00	5,697.00	5,641.36	114.71	23.12	60.04	346.49	-836.85	5,910.81	5,858.54	52.27	113.091		
12,300.00	6,027.00	5,697.00	5,641.36	116.41	23.12	60.04	346.49	-836.85	6,009.96	5,957.63	52.33	114.850		
12,400.00	6,027.00	5,697.00	5,641.36	118.11	23.12	60.04	346.49	-836.85	6,109.14	6,056.74	52.39	116.606		
12,500.00	6,027.00	5,697.00	5,641.36	119.82	23.12	60.04	346.49	-836.85	6,208.34	6,155.88	52.45	118.358		
12,600.00	6,027.00	5,697.00	5,641.36	121.53	23.12	60.04	346.49	-836.85	6,307.57	6,255.05	52.52	120.107		
12,700.00	6,027.00	5,697.00	5,641.36	123.24	23.12	60.04	346.49	-836.85	6,406.82	6,354.24	52.58	121.852		
12,800.00	6,027.00	5,697.00	5,641.36	124.95	23.12	60.04	346.49	-836.85	6,506.09	6,453.45	52.64	123.593		
12,900.00	6,027.00	5,697.00	5,641.36	126.66	23.12	60.04	346.49	-836.85	6,605.39	6,552.69	52.70	125.331		
13,000.00	6,027.00	5,697.00	5,641.36	128.38	23.12	60.04	346.49	-836.85	6,704.71	6,651.94	52.77	127.064		
13,100.00	6,027.00	5,697.00	5,641.36	130.10	23.12	60.04	346.49	-836.85	6,804.04	6,751.21	52.83	128.793		
13,200.00	6,027.00	5,697.00	5,641.36	131.82	23.12	60.04	346.49	-836.85	6,903.40	6,850.51	52.89	130.519		
13,300.00	6,027.00	5,697.00	5,641.36	133.54	23.12	60.04	346.49	-836.85	7,002.78	6,949.82	52.96	132.240		
13,400.00	6,027.00	5,697.00	5,641.36	135.26	23.12	60.04	346.49	-836.85	7,102.17	7,049.15	53.02	133.957		
13,500.00	6,027.00	5,697.00	5,641.36	136.98	23.12	60.04	346.49	-836.85	7,201.58	7,148.50	53.08	135.670		
13,600.00	6,027.00	5,697.00	5,641.36	138.71	23.12	60.04	346.49	-836.85	7,301.00	7,247.86	53.15	137.378		
13,700.00	6,027.00	5,697.00	5,641.36	140.43	23.12	60.04	346.49	-836.85	7,400.44	7,347.23	53.21	139.082		
13,800.00	6,027.00	5,697.00	5,641.36	142.16	23.12	60.04	346.49	-836.85	7,499.90	7,446.63	53.27	140.782		
13,900.00	6,027.00	5,697.00	5,641.36	143.89	23.12	60.04	346.49	-836.85	7,599.37	7,546.03	53.34	142.477		
14,000.00	6,027.00	5,697.00	5,641.36	145.62	23.12	60.04	346.49	-836.85	7,698.85	7,645.45	53.40	144.168		
14,100.00	6,027.00	5,697.00	5,641.36	147.35	23.12	60.04	346.49	-836.85	7,798.35	7,744.88	53.47	145.854		
14,200.00	6,027.00	5,697.00	5,641.36	149.08	23.12	60.04	346.49	-836.85	7,897.86	7,844.33	53.53	147.536		
14,300.00	6,027.00	5,697.00	5,641.36	150.81	23.12	60.04	346.49	-836.85	7,997.38	7,943.78	53.60	149.213		
14,400.00	6,027.00	5,697.00	5,641.36	152.54	23.12	60.04	346.49	-836.85	8,096.91	8,043.25	53.66	150.885		
14,500.00	6,027.00	5,697.00	5,641.36	154.28	23.12	60.04	346.49	-836.85	8,196.46	8,142.73	53.73	152.552		
14,600.00	6,027.00	5,697.00	5,641.36	156.01	23.12	60.04	346.49	-836.85	8,296.02	8,242.22	53.80	154.215		
14,700.00	6,027.00	5,697.00	5,641.36	157.75	23.12	60.04	346.49	-836.85	8,395.58	8,341.72	53.86	155.873		
14,800.00	6,027.00	5,697.00	5,641.36	159.49	23.12	60.04	346.49	-836.85	8,495.16	8,441.23	53.93	157.526		
14,900.00	6,027.00	5,697.00	5,641.36	161.22	23.12	60.04	346.49	-836.85	8,594.75	8,540.75	54.00	159.174		
15,000.00	6,027.00	5,697.00	5,641.36	162.96	23.12	60.04	346.49	-836.85	8,694.34	8,640.28	54.06	160.817		
15,100.00	6,027.00	5,697.00	5,641.36	164.70	23.12	60.04	346.49	-836.85	8,793.95	8,739.82	54.13	162.456		
15,200.00	6,027.00	5,697.00	5,641.36	166.44	23.12	60.04	346.49	-836.85	8,893.56	8,839.36	54.20	164.089		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 480-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,300.00	6,027.00	5,697.00	5,641.36	168.18	23.12	60.04	346.49	-836.85	8,993.18	8,938.92	54.27	165.717	
15,400.00	6,027.00	5,697.00	5,641.36	169.93	23.12	60.04	346.49	-836.85	9,092.81	9,038.48	54.34	167.340	
15,500.00	6,027.00	5,697.00	5,641.36	171.67	23.12	60.04	346.49	-836.85	9,192.45	9,138.05	54.41	168.959	
15,600.00	6,027.00	5,697.00	5,641.36	173.41	23.12	60.04	346.49	-836.85	9,292.10	9,237.62	54.48	170.572	
15,700.00	6,027.00	5,697.00	5,641.36	175.15	23.12	60.04	346.49	-836.85	9,391.75	9,337.21	54.55	172.180	
15,800.00	6,027.00	5,697.00	5,641.36	176.90	23.12	60.04	346.49	-836.85	9,491.42	9,436.80	54.62	173.782	
15,900.00	6,027.00	5,697.00	5,641.36	178.64	23.12	60.04	346.49	-836.85	9,591.08	9,536.40	54.69	175.380	
16,000.00	6,027.00	5,697.00	5,641.36	180.39	23.12	60.04	346.49	-836.85	9,690.76	9,636.00	54.76	176.972	
16,100.00	6,027.00	5,697.00	5,641.36	182.13	23.12	60.04	346.49	-836.85	9,790.44	9,735.61	54.83	178.560	
16,200.00	6,027.00	5,697.00	5,641.36	183.88	23.12	60.04	346.49	-836.85	9,890.13	9,835.23	54.90	180.142	
16,300.00	6,027.00	5,697.00	5,641.36	185.63	23.12	60.04	346.49	-836.85	9,989.82	9,934.85	54.97	181.718	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 468-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-83.37	29.15	-250.64	252.49					
100.00	100.00	91.00	91.00	0.27	0.31	-83.37	29.15	-250.64	252.33	251.75	0.58	432.656		
200.00	200.00	191.00	191.00	0.63	0.66	-83.37	29.15	-250.64	252.33	251.04	1.29	196.041		
300.00	300.00	291.00	291.00	0.99	1.01	-83.37	29.15	-250.64	252.33	250.34	1.99	126.732		
400.00	400.00	391.00	391.00	1.34	1.35	-83.37	29.15	-250.64	252.33	249.64	2.69	93.630		
406.71	406.71	397.71	397.71	1.37	1.37	-83.37	29.15	-250.64	252.33	249.59	2.74	92.017		
500.00	500.00	490.20	490.20	1.70	1.69	-83.37	29.13	-250.68	252.37	248.97	3.40	74.309		
600.00	600.00	587.22	587.21	2.06	2.03	-83.24	29.80	-251.55	253.34	249.25	4.09	61.910		
700.00	700.00	682.82	682.77	2.42	2.37	-82.89	31.57	-253.25	255.34	250.55	4.79	53.308		
800.00	800.00	774.69	774.50	2.78	2.70	-82.47	34.06	-257.66	260.43	254.96	5.47	47.603		
900.00	900.00	869.30	868.87	3.14	3.04	-82.11	36.57	-263.96	267.40	261.24	6.16	43.415		
1,000.00	999.98	957.84	956.93	3.49	3.37	7.36	38.74	-272.83	275.94	269.14	6.80	40.558		
1,100.00	1,099.84	1,048.77	1,046.90	3.83	3.72	7.59	41.22	-285.69	285.13	277.69	7.45	38.295		
1,200.00	1,199.45	1,147.23	1,144.23	4.19	4.12	7.96	44.21	-300.32	291.69	283.56	8.14	35.841		
1,300.00	1,298.70	1,236.53	1,232.14	4.55	4.49	8.31	46.99	-315.74	297.24	288.47	8.77	33.889		
1,400.00	1,397.47	1,328.18	1,321.70	4.94	4.89	8.66	49.93	-334.95	303.03	293.61	9.42	32.161		
1,500.00	1,495.62	1,428.42	1,419.56	5.34	5.36	9.05	52.72	-356.47	305.87	295.72	10.15	30.134		
1,600.00	1,593.06	1,524.14	1,512.76	5.78	5.81	9.96	57.91	-377.68	306.46	295.61	10.85	28.243		
1,700.00	1,689.64	1,618.69	1,604.60	6.24	6.28	10.98	63.23	-399.50	304.72	293.16	11.55	26.381		
1,800.00	1,785.27	1,709.44	1,692.10	6.75	6.76	12.04	68.57	-422.97	302.49	290.26	12.22	24.746		
1,900.00	1,880.44	1,803.72	1,782.35	7.30	7.28	13.21	74.72	-449.49	301.32	288.38	12.94	23.280		
1,932.50	1,911.36	1,835.22	1,812.44	7.48	7.46	13.66	77.10	-458.54	301.27	288.07	13.19	22.839		
2,000.00	1,975.60	1,899.00	1,873.21	7.86	7.84	14.67	82.59	-477.07	301.64	287.95	13.69	22.032		
2,100.00	2,070.77	1,993.48	1,962.74	8.43	8.41	16.42	92.47	-505.58	304.08	289.63	14.45	21.046		
2,200.00	2,165.93	2,099.05	2,062.63	9.02	9.06	18.04	102.17	-538.34	307.29	291.93	15.36	20.006		
2,300.00	2,261.10	2,202.28	2,161.26	9.62	9.69	19.43	109.70	-567.89	307.57	291.32	16.25	18.922		
2,400.00	2,356.26	2,305.86	2,260.17	10.23	10.32	20.74	116.89	-597.74	308.13	290.97	17.17	17.948		
2,479.37	2,431.79	2,383.85	2,334.91	10.72	10.79	21.55	121.06	-619.63	307.59	289.74	17.85	17.228		
2,500.00	2,451.43	2,403.09	2,353.29	10.84	10.91	21.73	122.03	-625.23	307.64	289.62	18.02	17.070		
2,600.00	2,546.59	2,493.75	2,439.47	11.46	11.48	22.54	127.06	-652.90	309.51	290.70	18.81	16.454		
2,700.00	2,641.76	2,583.53	2,523.95	12.09	12.09	23.47	133.92	-682.49	314.69	295.09	19.60	16.055		
2,800.00	2,736.92	2,685.37	2,619.08	12.72	12.80	24.44	142.27	-717.88	321.95	301.38	20.57	15.651		
2,900.00	2,832.09	2,782.36	2,710.11	13.35	13.48	25.34	149.79	-750.50	328.02	306.53	21.49	15.264		
3,000.00	2,927.25	2,904.31	2,825.03	13.99	14.31	26.44	158.64	-790.23	333.19	310.46	22.73	14.659		
3,100.00	3,022.42	3,023.80	2,940.30	14.63	15.01	27.51	163.05	-821.36	330.36	306.50	23.86	13.845		
3,200.00	3,117.58	3,122.35	3,036.23	15.27	15.55	28.61	166.10	-843.64	324.32	299.47	24.85	13.053		
3,273.16	3,187.20	3,180.71	3,092.71	15.74	15.87	29.54	170.12	-857.79	322.45	296.95	25.49	12.649		
3,300.00	3,212.75	3,191.00	3,102.60	15.91	15.93	29.73	171.09	-860.44	322.86	297.27	25.58	12.620		
3,400.00	3,307.91	3,287.00	3,193.42	16.56	16.57	31.29	181.70	-889.57	328.26	301.63	26.63	12.325		
3,500.00	3,403.08	3,366.04	3,266.55	17.20	17.17	32.24	191.44	-917.95	339.14	311.75	27.39	12.380		
3,600.00	3,498.24	3,455.20	3,348.09	17.85	17.88	33.08	202.76	-952.16	352.97	324.68	28.30	12.474		
3,700.00	3,593.41	3,544.50	3,428.69	18.50	18.64	33.73	214.78	-988.69	369.59	340.40	29.19	12.660		
3,800.00	3,688.57	3,635.23	3,509.52	19.15	19.44	34.14	227.10	-1,028.00	388.50	358.40	30.10	12.905		
3,900.00	3,783.74	3,745.15	3,607.45	19.81	20.42	34.67	242.54	-1,075.45	407.68	376.25	31.43	12.971		
4,000.00	3,878.90	3,852.03	3,704.70	20.46	21.31	35.67	258.64	-1,116.74	423.44	390.69	32.75	12.930		
4,100.00	3,974.07	3,970.13	3,813.41	21.11	22.24	36.77	275.06	-1,159.85	436.83	402.59	34.25	12.756		
4,200.00	4,069.23	4,109.46	3,945.07	21.77	23.20	37.84	287.03	-1,203.68	442.39	406.52	35.87	12.335		
4,300.00	4,164.40	4,209.11	4,040.64	22.42	23.83	38.67	293.05	-1,231.23	443.50	406.47	37.04	11.975		
4,400.00	4,259.56	4,330.41	4,156.99	23.08	24.57	39.53	299.14	-1,264.91	444.35	406.01	38.34	11.591		
4,500.00	4,354.73	4,421.61	4,245.20	23.74	25.10	40.31	302.95	-1,287.78	442.38	402.90	39.48	11.205		
4,524.45	4,377.99	4,442.83	4,265.68	23.90	25.23	40.52	304.19	-1,293.21	442.28	402.52	39.76	11.124		
4,600.00	4,449.89	4,506.69	4,327.08	24.39	25.62	41.19	308.88	-1,310.10	443.31	402.70	40.61	10.916		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 468-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.00	4,545.06	4,618.94	4,434.92	25.05	26.30	42.45	318.09	-1,339.82	445.50	403.50	42.00	10.607		
4,800.00	4,640.22	4,747.72	4,560.42	25.71	26.97	44.19	325.61	-1,367.56	442.51	399.04	43.48	10.179		
4,900.00	4,735.39	4,875.87	4,687.20	26.37	27.50	46.65	330.29	-1,385.42	432.81	387.89	44.92	9.634		
5,000.00	4,830.55	4,989.28	4,800.16	27.03	27.88	49.32	331.80	-1,395.37	418.59	372.18	46.41	9.020		
5,100.00	4,925.72	5,093.61	4,904.31	27.69	28.18	52.25	332.37	-1,401.29	402.65	354.63	48.02	8.384		
5,200.00	5,020.88	5,195.21	5,005.84	28.35	28.45	55.52	332.40	-1,405.17	386.29	336.53	49.76	7.764		
5,300.00	5,116.05	5,282.47	5,093.06	29.01	28.68	58.86	333.92	-1,407.03	371.73	320.01	51.73	7.186		
5,400.00	5,211.21	5,382.08	5,192.62	29.67	28.93	63.02	336.67	-1,409.01	359.71	306.02	53.69	6.700		
5,500.00	5,306.38	5,481.92	5,292.41	30.33	29.20	67.23	337.64	-1,411.76	348.36	292.76	55.60	6.266		
5,600.00	5,401.54	5,579.26	5,389.72	30.99	29.45	71.59	337.93	-1,414.10	338.24	280.75	57.49	5.883		
5,700.00	5,496.71	5,676.93	5,487.38	31.65	29.70	72.12	337.92	-1,415.76	329.66	270.35	59.31	5.558		
5,800.00	5,591.13	5,778.45	5,588.89	32.30	29.94	49.78	337.33	-1,416.80	312.19	251.30	60.89	5.127		
5,900.00	5,682.22	5,885.25	5,695.19	32.92	30.20	37.69	328.51	-1,421.06	272.94	210.94	62.00	4.402		
6,000.00	5,767.23	5,996.64	5,805.17	33.50	30.46	36.70	312.32	-1,426.18	215.38	153.44	61.95	3.477		
6,100.00	5,843.56	6,070.63	5,876.24	34.04	30.66	45.84	293.75	-1,434.78	139.40	77.55	61.84	2.254		
6,200.00	5,908.90	6,123.48	5,925.11	34.53	30.85	89.12	276.76	-1,445.35	55.85	-2.20	58.06	0.962 Level 1		
6,246.52	5,934.97	6,135.31	5,935.54	34.73	30.90	110.16	272.07	-1,448.33	32.72	-15.03	47.75	0.685 Level 1, CC, ES, SF		
6,300.00	5,961.25	6,141.10	5,940.57	34.99	30.92	114.83	269.63	-1,449.88	62.36	9.03	53.33	1.169 Level 2		
6,400.00	5,999.04	6,138.67	5,938.47	35.42	30.91	80.44	270.66	-1,449.22	156.35	99.58	56.77	2.754		
6,500.00	6,021.11	6,126.58	5,927.86	35.83	30.86	44.92	275.57	-1,446.11	253.15	195.07	58.08	4.359		
6,600.00	6,027.00	6,108.64	5,911.70	36.24	30.79	32.36	282.14	-1,441.96	347.43	288.14	59.29	5.860		
6,700.00	6,027.00	6,085.00	5,889.79	36.68	30.71	29.34	289.66	-1,437.25	441.54	381.66	59.89	7.373		
6,800.00	6,027.00	6,072.84	5,878.33	37.20	30.67	27.97	293.13	-1,435.14	536.68	475.95	60.73	8.837		
6,900.00	6,027.00	6,053.08	5,859.57	37.80	30.61	25.98	298.55	-1,432.13	632.49	571.49	61.00	10.369		
7,000.00	6,027.00	6,035.37	5,842.61	38.47	30.56	24.38	303.15	-1,429.86	728.74	667.50	61.24	11.900		
7,100.00	6,027.00	6,019.43	5,827.26	39.21	30.51	23.06	307.08	-1,428.14	825.36	763.91	61.45	13.431		
7,200.00	6,027.00	6,013.00	5,821.05	40.02	30.50	22.55	308.61	-1,427.54	922.37	860.56	61.81	14.923		
7,300.00	6,027.00	5,995.30	5,803.87	40.89	30.45	21.24	312.61	-1,426.08	1,019.60	957.72	61.88	16.477		
7,400.00	6,027.00	5,981.00	5,789.92	41.83	30.42	20.27	315.58	-1,425.11	1,117.18	1,055.19	61.99	18.022		
7,500.00	6,027.00	5,981.00	5,789.92	42.83	30.42	20.27	315.58	-1,425.11	1,214.98	1,152.69	62.29	19.506		
7,600.00	6,027.00	5,970.20	5,779.34	43.88	30.39	19.57	317.67	-1,424.49	1,312.98	1,250.59	62.39	21.045		
7,700.00	6,027.00	5,963.92	5,773.17	44.99	30.38	19.18	318.80	-1,424.17	1,411.20	1,348.67	62.53	22.570		
7,800.00	6,027.00	5,950.00	5,759.46	46.14	30.35	18.35	321.12	-1,423.56	1,509.64	1,447.08	62.56	24.131		
7,900.00	6,027.00	5,950.00	5,759.46	47.33	30.35	18.35	321.12	-1,423.56	1,608.10	1,545.37	62.73	25.636		
8,000.00	6,027.00	5,950.00	5,759.46	48.57	30.35	18.35	321.12	-1,423.56	1,706.74	1,643.87	62.87	27.146		
8,100.00	6,027.00	5,950.00	5,759.46	49.84	30.35	18.35	321.12	-1,423.56	1,805.53	1,742.53	63.00	28.659		
8,200.00	6,027.00	5,950.00	5,759.46	51.15	30.35	18.35	321.12	-1,423.56	1,904.44	1,841.33	63.11	30.176		
8,300.00	6,027.00	5,936.89	5,746.51	52.48	30.32	17.63	323.05	-1,423.05	2,003.29	1,940.18	63.11	31.742		
8,400.00	6,027.00	5,933.63	5,743.28	53.85	30.31	17.46	323.49	-1,422.92	2,102.31	2,039.13	63.18	33.274		
8,500.00	6,027.00	5,919.00	5,728.77	55.24	30.28	16.75	325.27	-1,422.30	2,201.54	2,138.37	63.17	34.853		
8,600.00	6,027.00	5,919.00	5,728.77	56.65	30.28	16.75	325.27	-1,422.30	2,300.63	2,237.38	63.25	36.373		
8,700.00	6,027.00	5,919.00	5,728.77	58.08	30.28	16.75	325.27	-1,422.30	2,399.80	2,336.47	63.33	37.895		
8,800.00	6,027.00	5,919.00	5,728.77	59.54	30.28	16.75	325.27	-1,422.30	2,499.04	2,435.64	63.40	39.417		
8,900.00	6,027.00	5,919.00	5,728.77	61.01	30.28	16.75	325.27	-1,422.30	2,598.33	2,534.87	63.47	40.940		
9,000.00	6,027.00	5,919.00	5,728.77	62.50	30.28	16.75	325.27	-1,422.30	2,697.68	2,634.15	63.53	42.463		
9,100.00	6,027.00	5,919.00	5,728.77	64.01	30.28	16.75	325.27	-1,422.30	2,797.08	2,733.49	63.59	43.986		
9,200.00	6,027.00	5,919.00	5,728.77	65.53	30.28	16.75	325.27	-1,422.30	2,896.51	2,832.86	63.65	45.510		
9,300.00	6,027.00	5,919.00	5,728.77	67.06	30.28	16.75	325.27	-1,422.30	2,995.98	2,932.28	63.70	47.033		
9,400.00	6,027.00	5,905.40	5,715.25	68.61	30.24	16.13	326.69	-1,421.75	3,095.38	3,031.70	63.68	48.606		
9,500.00	6,027.00	5,902.70	5,712.56	70.17	30.24	16.02	326.95	-1,421.65	3,194.88	3,131.16	63.72	50.139		
9,600.00	6,027.00	5,900.11	5,709.99	71.73	30.23	15.91	327.20	-1,421.55	3,294.39	3,230.63	63.76	51.670		
9,700.00	6,027.00	5,887.00	5,696.94	73.31	30.20	15.36	328.37	-1,421.12	3,393.99	3,330.25	63.75	53.242		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 468-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	6,027.00	5,887.00	5,696.94	74.90	30.20	15.36	328.37	-1,421.12	3,493.52	3,429.73	63.80	54.761		
9,900.00	6,027.00	5,887.00	5,696.94	76.50	30.20	15.36	328.37	-1,421.12	3,593.08	3,529.24	63.84	56.280		
10,000.00	6,027.00	5,887.00	5,696.94	78.10	30.20	15.36	328.37	-1,421.12	3,692.66	3,628.77	63.89	57.797		
10,100.00	6,027.00	5,830.00	5,640.26	79.71	30.06	13.51	333.77	-1,418.54	3,792.17	3,728.50	63.67	59.557		
10,200.00	6,027.00	5,830.00	5,640.26	81.33	30.06	13.51	333.77	-1,418.54	3,891.66	3,827.94	63.72	61.072		
10,300.00	6,027.00	5,830.00	5,640.26	82.96	30.06	13.51	333.77	-1,418.54	3,991.17	3,927.40	63.77	62.585		
10,400.00	6,027.00	5,830.00	5,640.26	84.59	30.06	13.51	333.77	-1,418.54	4,090.71	4,026.89	63.82	64.098		
10,500.00	6,027.00	5,830.00	5,640.26	86.23	30.06	13.51	333.77	-1,418.54	4,190.27	4,126.40	63.87	65.609		
10,600.00	6,027.00	5,830.00	5,640.26	87.87	30.06	13.51	333.77	-1,418.54	4,289.85	4,225.93	63.91	67.119		
10,700.00	6,027.00	5,815.08	5,625.44	89.52	30.03	13.11	335.36	-1,417.88	4,389.17	4,325.27	63.90	68.690		
10,800.00	6,027.00	5,814.26	5,624.63	91.17	30.02	13.09	335.44	-1,417.85	4,488.76	4,424.82	63.94	70.201		
10,900.00	6,027.00	5,813.47	5,623.84	92.83	30.02	13.07	335.50	-1,417.82	4,588.36	4,524.38	63.98	71.710		
11,000.00	6,027.00	5,812.71	5,623.09	94.49	30.02	13.05	335.57	-1,417.79	4,687.98	4,623.95	64.03	73.218		
11,100.00	6,027.00	5,798.00	5,608.42	96.16	29.98	12.67	336.58	-1,417.27	4,787.85	4,723.83	64.02	74.789		
11,200.00	6,027.00	5,798.00	5,608.42	97.83	29.98	12.67	336.58	-1,417.27	4,887.47	4,823.41	64.06	76.290		
11,300.00	6,027.00	5,798.00	5,608.42	99.50	29.98	12.67	336.58	-1,417.27	4,987.11	4,923.00	64.11	77.790		
11,400.00	6,027.00	5,798.00	5,608.42	101.18	29.98	12.67	336.58	-1,417.27	5,086.76	5,022.61	64.16	79.287		
11,500.00	6,027.00	5,798.00	5,608.42	102.86	29.98	12.67	336.58	-1,417.27	5,186.43	5,122.23	64.20	80.783		
11,600.00	6,027.00	5,798.00	5,608.42	104.54	29.98	12.67	336.58	-1,417.27	5,286.11	5,221.86	64.25	82.277		
11,700.00	6,027.00	5,798.00	5,608.42	106.23	29.98	12.67	336.58	-1,417.27	5,385.80	5,321.50	64.29	83.769		
11,800.00	6,027.00	5,798.00	5,608.42	107.92	29.98	12.67	336.58	-1,417.27	5,485.50	5,421.16	64.34	85.259		
11,900.00	6,027.00	5,798.00	5,608.42	109.61	29.98	12.67	336.58	-1,417.27	5,585.21	5,520.82	64.39	86.746		
12,000.00	6,027.00	5,798.00	5,608.42	111.31	29.98	12.67	336.58	-1,417.27	5,684.93	5,620.50	64.43	88.232		
12,100.00	6,027.00	5,798.00	5,608.42	113.00	29.98	12.67	336.58	-1,417.27	5,784.66	5,720.19	64.48	89.716		
12,200.00	6,027.00	5,798.00	5,608.42	114.71	29.98	12.67	336.58	-1,417.27	5,884.40	5,819.88	64.52	91.197		
12,300.00	6,027.00	5,798.00	5,608.42	116.41	29.98	12.67	336.58	-1,417.27	5,984.15	5,919.58	64.57	92.676		
12,400.00	6,027.00	5,798.00	5,608.42	118.11	29.98	12.67	336.58	-1,417.27	6,083.91	6,019.29	64.62	94.153		
12,500.00	6,027.00	5,798.00	5,608.42	119.82	29.98	12.67	336.58	-1,417.27	6,183.68	6,119.01	64.66	95.628		
12,600.00	6,027.00	5,798.00	5,608.42	121.53	29.98	12.67	336.58	-1,417.27	6,283.45	6,218.74	64.71	97.100		
12,700.00	6,027.00	5,798.00	5,608.42	123.24	29.98	12.67	336.58	-1,417.27	6,383.23	6,318.47	64.76	98.570		
12,800.00	6,027.00	5,798.00	5,608.42	124.95	29.98	12.67	336.58	-1,417.27	6,483.02	6,418.21	64.81	100.038		
12,900.00	6,027.00	5,798.00	5,608.42	126.66	29.98	12.67	336.58	-1,417.27	6,582.81	6,517.96	64.85	101.502		
13,000.00	6,027.00	5,798.00	5,608.42	128.38	29.98	12.67	336.58	-1,417.27	6,682.61	6,617.71	64.90	102.965		
13,100.00	6,027.00	5,798.00	5,608.42	130.10	29.98	12.67	336.58	-1,417.27	6,782.41	6,717.46	64.95	104.425		
13,200.00	6,027.00	5,798.00	5,608.42	131.82	29.98	12.67	336.58	-1,417.27	6,882.23	6,817.23	65.00	105.882		
13,300.00	6,027.00	5,798.00	5,608.42	133.54	29.98	12.67	336.58	-1,417.27	6,982.04	6,916.99	65.05	107.337		
13,400.00	6,027.00	5,798.00	5,608.42	135.26	29.98	12.67	336.58	-1,417.27	7,081.86	7,016.77	65.10	108.789		
13,500.00	6,027.00	5,798.00	5,608.42	136.98	29.98	12.67	336.58	-1,417.27	7,181.69	7,116.54	65.15	110.238		
13,600.00	6,027.00	5,798.00	5,608.42	138.71	29.98	12.67	336.58	-1,417.27	7,281.52	7,216.32	65.20	111.684		
13,700.00	6,027.00	5,798.00	5,608.42	140.43	29.98	12.67	336.58	-1,417.27	7,381.36	7,316.11	65.25	113.128		
13,800.00	6,027.00	5,798.00	5,608.42	142.16	29.98	12.67	336.58	-1,417.27	7,481.20	7,415.90	65.30	114.569		
13,900.00	6,027.00	5,798.00	5,608.42	143.89	29.98	12.67	336.58	-1,417.27	7,581.04	7,515.69	65.35	116.007		
14,000.00	6,027.00	5,798.00	5,608.42	145.62	29.98	12.67	336.58	-1,417.27	7,680.89	7,615.49	65.40	117.443		
14,100.00	6,027.00	5,798.00	5,608.42	147.35	29.98	12.67	336.58	-1,417.27	7,780.74	7,715.29	65.45	118.875		
14,200.00	6,027.00	5,798.00	5,608.42	149.08	29.98	12.67	336.58	-1,417.27	7,880.60	7,815.09	65.51	120.305		
14,300.00	6,027.00	5,798.00	5,608.42	150.81	29.98	12.67	336.58	-1,417.27	7,980.46	7,914.90	65.56	121.731		
14,400.00	6,027.00	5,798.00	5,608.42	152.54	29.98	12.67	336.58	-1,417.27	8,080.32	8,014.71	65.61	123.155		
14,500.00	6,027.00	5,798.00	5,608.42	154.28	29.98	12.67	336.58	-1,417.27	8,180.19	8,114.52	65.66	124.575		
14,600.00	6,027.00	5,798.00	5,608.42	156.01	29.98	12.67	336.58	-1,417.27	8,280.06	8,214.34	65.72	125.993		
14,700.00	6,027.00	5,798.00	5,608.42	157.75	29.98	12.67	336.58	-1,417.27	8,379.93	8,314.16	65.77	127.408		
14,800.00	6,027.00	5,798.00	5,608.42	159.49	29.98	12.67	336.58	-1,417.27	8,479.81	8,413.98	65.83	128.819		
14,900.00	6,027.00	5,798.00	5,608.42	161.22	29.98	12.67	336.58	-1,417.27	8,579.69	8,513.80	65.88	130.228		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
SEC 16-T5N-R61W - EXIST HZ STATE PRONGHORN A-E-16HNB - OWB - FINAL SURVEY												<b>Offset Well Error:</b>	0.00 usft
Survey Program: 468-MWD OWSG													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,000.00	6,027.00	5,798.00	5,608.42	162.96	29.98	12.67	336.58	-1,417.27	8,679.57	8,613.63	65.94	131.633	
15,100.00	6,027.00	5,798.00	5,608.42	164.70	29.98	12.67	336.58	-1,417.27	8,779.45	8,713.46	65.99	133.035	
15,200.00	6,027.00	5,798.00	5,608.42	166.44	29.98	12.67	336.58	-1,417.27	8,879.34	8,813.29	66.05	134.434	
15,300.00	6,027.00	5,798.00	5,608.42	168.18	29.98	12.67	336.58	-1,417.27	8,979.23	8,913.12	66.11	135.830	
15,400.00	6,027.00	5,798.00	5,608.42	169.93	29.98	12.67	336.58	-1,417.27	9,079.12	9,012.96	66.16	137.223	
15,500.00	6,027.00	5,798.00	5,608.42	171.67	29.98	12.67	336.58	-1,417.27	9,179.01	9,112.79	66.22	138.612	
15,600.00	6,027.00	5,798.00	5,608.42	173.41	29.98	12.67	336.58	-1,417.27	9,278.91	9,212.63	66.28	139.998	
15,700.00	6,027.00	5,798.00	5,608.42	175.15	29.98	12.67	336.58	-1,417.27	9,378.81	9,312.47	66.34	141.381	
15,800.00	6,027.00	5,798.00	5,608.42	176.90	29.98	12.67	336.58	-1,417.27	9,478.71	9,412.31	66.40	142.761	
15,900.00	6,027.00	5,798.00	5,608.42	178.64	29.98	12.67	336.58	-1,417.27	9,578.61	9,512.16	66.45	144.137	
16,000.00	6,027.00	5,798.00	5,608.42	180.39	29.98	12.67	336.58	-1,417.27	9,678.52	9,612.00	66.51	145.510	
16,100.00	6,027.00	5,798.00	5,608.42	182.13	29.98	12.67	336.58	-1,417.27	9,778.43	9,711.85	66.57	146.880	
16,200.00	6,027.00	5,798.00	5,608.42	183.88	29.98	12.67	336.58	-1,417.27	9,878.33	9,811.70	66.63	148.246	
16,300.00	6,027.00	5,798.00	5,608.42	185.63	29.98	12.67	336.58	-1,417.27	9,978.24	9,911.55	66.70	149.609	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 488-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-88.33	7.29	-250.64	251.20				
100.00	100.00	84.59	84.59	0.27	0.15	-88.36	7.17	-250.71	250.82	250.40	0.42	601.928	
200.00	200.00	184.10	184.10	0.63	0.32	-88.47	6.72	-250.99	251.08	250.13	0.95	264.559	
300.00	300.00	283.61	283.60	0.99	0.50	-88.65	5.93	-251.46	251.54	250.05	1.48	169.800	
400.00	400.00	383.11	383.09	1.34	0.67	-88.91	4.82	-252.14	252.19	250.18	2.01	125.241	
500.00	500.00	482.59	482.57	1.70	0.84	-89.24	3.37	-253.02	253.05	250.50	2.55	99.396	
600.00	600.00	584.39	584.35	2.06	1.20	-89.52	2.12	-253.67	253.68	250.43	3.26	77.833	
700.00	700.00	686.21	686.17	2.42	1.55	-89.61	1.75	-253.57	253.58	249.61	3.97	63.848	
800.00	800.00	786.13	786.09	2.78	1.89	-89.54	2.01	-252.94	252.95	248.28	4.67	54.171	
856.51	856.51	841.55	841.51	2.98	2.08	-89.48	2.32	-252.82	252.83	247.77	5.06	49.983	
900.00	900.00	884.86	884.82	3.14	2.22	-89.41	2.62	-252.85	252.87	247.51	5.36	47.169	
1,000.00	999.98	985.58	985.53	3.49	2.57	0.08	3.63	-252.77	251.05	245.00	6.05	41.466	
1,100.00	1,099.84	1,087.10	1,087.03	3.83	2.92	0.47	5.28	-252.18	245.26	238.51	6.75	36.331	
1,200.00	1,199.45	1,187.04	1,186.92	4.19	3.27	1.20	8.15	-251.07	235.53	228.08	7.45	31.625	
1,300.00	1,298.70	1,286.05	1,285.79	4.55	3.62	2.59	13.19	-249.84	222.34	214.20	8.15	27.292	
1,400.00	1,397.47	1,384.62	1,384.06	4.94	3.97	4.98	20.81	-248.45	205.94	197.08	8.85	23.265	
1,500.00	1,495.62	1,482.85	1,481.76	5.34	4.32	8.72	30.80	-246.40	186.24	176.67	9.57	19.470	
1,600.00	1,593.06	1,578.72	1,577.08	5.78	4.68	13.62	40.81	-244.36	164.15	153.87	10.29	15.960	
1,700.00	1,689.64	1,674.61	1,672.53	6.24	5.03	20.05	49.80	-242.70	140.35	129.32	11.03	12.729	
1,800.00	1,785.27	1,769.59	1,767.10	6.75	5.39	29.55	58.43	-240.94	115.61	103.79	11.82	9.784	
1,900.00	1,880.44	1,863.80	1,860.91	7.30	5.74	43.62	66.95	-239.02	94.07	81.36	12.71	7.403	
2,000.00	1,975.60	1,956.95	1,953.55	7.86	6.09	63.60	76.36	-236.61	81.92	68.18	13.74	5.962	
2,034.40	2,008.34	1,989.06	1,985.45	8.05	6.22	71.51	79.91	-235.64	81.02	66.92	14.10	5.745 CC, ES	
2,100.00	2,070.77	2,050.47	2,046.44	8.43	6.45	86.47	86.73	-233.67	84.24	69.52	14.72	5.721 SF	
2,200.00	2,165.93	2,144.57	2,139.92	9.02	6.81	105.66	97.08	-230.57	99.75	84.26	15.49	6.440	
2,300.00	2,261.10	2,239.21	2,234.03	9.62	7.18	118.87	106.86	-228.34	122.66	106.50	16.16	7.590	
2,400.00	2,356.26	2,331.80	2,326.06	10.23	7.54	127.57	116.76	-226.12	150.25	133.45	16.80	8.944	
2,500.00	2,451.43	2,424.07	2,417.70	10.84	7.90	133.61	127.10	-223.23	181.03	163.58	17.45	10.373	
2,600.00	2,546.59	2,516.59	2,509.57	11.46	8.26	138.10	137.44	-219.44	213.87	195.74	18.13	11.798	
2,700.00	2,641.76	2,609.26	2,601.61	12.09	8.63	141.62	147.25	-215.00	247.81	228.99	18.82	13.169	
2,800.00	2,736.92	2,701.41	2,693.08	12.72	8.99	144.21	157.44	-210.56	282.66	263.14	19.52	14.482	
2,900.00	2,832.09	2,798.71	2,789.70	13.35	9.37	146.31	168.15	-206.35	317.50	297.21	20.29	15.645	
3,000.00	2,927.25	2,897.89	2,888.37	13.99	9.76	148.16	177.50	-202.91	351.18	330.10	21.08	16.658	
3,100.00	3,022.42	2,996.99	2,987.16	14.63	10.13	149.89	184.95	-200.27	383.60	361.74	21.86	17.551	
3,200.00	3,117.58	3,092.00	3,081.93	15.27	10.49	151.31	191.49	-198.43	415.38	392.79	22.59	18.389	
3,300.00	3,212.75	3,179.70	3,169.31	15.91	10.82	152.31	198.64	-196.59	448.01	424.74	23.27	19.254	
3,400.00	3,307.91	3,264.81	3,253.87	16.56	11.16	152.92	208.00	-194.21	482.49	458.54	23.94	20.152	
3,500.00	3,403.08	3,346.00	3,334.18	17.20	11.49	153.15	219.61	-191.52	518.77	494.18	24.59	21.097	
3,600.00	3,498.24	3,433.04	3,419.78	17.85	11.87	153.07	235.05	-188.41	556.61	531.27	25.34	21.968	
3,700.00	3,593.41	3,518.98	3,503.79	18.50	12.25	152.77	252.83	-185.21	595.74	569.65	26.09	22.835	
3,800.00	3,688.57	3,607.10	3,589.95	19.15	12.65	152.55	270.85	-181.10	635.56	608.69	26.87	23.653	
3,900.00	3,783.74	3,699.60	3,680.50	19.81	13.06	152.41	289.11	-176.28	675.57	647.87	27.70	24.388	
4,000.00	3,878.90	3,806.00	3,784.94	20.46	13.53	152.38	308.71	-171.05	714.83	686.15	28.68	24.921	
4,100.00	3,974.07	3,925.37	3,902.86	21.11	14.04	152.57	326.81	-167.21	751.37	721.61	29.76	25.248	
4,200.00	4,069.23	4,032.82	4,009.61	21.77	14.47	152.96	338.87	-165.57	784.79	754.12	30.67	25.590	
4,300.00	4,164.40	4,127.26	4,103.55	22.42	14.84	153.33	348.54	-164.10	817.94	786.49	31.45	26.010	
4,400.00	4,259.56	4,225.36	4,201.24	23.08	15.22	153.78	357.32	-162.30	850.85	818.60	32.25	26.386	
4,500.00	4,354.73	4,325.04	4,300.64	23.74	15.59	154.33	364.38	-160.23	883.31	850.27	33.04	26.738	
4,600.00	4,449.89	4,445.50	4,420.96	24.39	16.02	155.12	369.68	-158.20	914.57	880.63	33.95	26.941	
4,700.00	4,545.06	4,552.48	4,527.93	25.05	16.38	155.93	370.84	-158.14	943.18	908.45	34.72	27.163	
4,800.00	4,640.22	4,648.92	4,624.37	25.71	16.68	156.68	370.72	-157.87	971.72	936.31	35.42	27.437	
4,900.00	4,735.39	4,748.36	4,723.81	26.37	16.99	157.42	370.44	-157.90	1,000.09	963.97	36.12	27.688	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 488-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,830.55	4,847.57	4,823.02	27.03	17.31	158.10	370.32	-158.42	1,028.20	991.38	36.83	27.920		
5,100.00	4,925.72	4,941.87	4,917.32	27.69	17.61	158.69	370.40	-159.18	1,056.25	1,018.74	37.51	28.156		
5,200.00	5,020.88	5,034.59	5,010.04	28.35	17.91	159.24	370.61	-159.75	1,084.61	1,046.41	38.19	28.399		
5,300.00	5,116.05	5,127.27	5,102.72	29.01	18.21	159.78	370.48	-159.95	1,113.31	1,074.44	38.87	28.645		
5,400.00	5,211.21	5,227.63	5,203.08	29.67	18.53	160.35	370.18	-160.25	1,141.98	1,102.40	39.58	28.851		
5,500.00	5,306.38	5,317.82	5,293.27	30.33	18.81	160.83	369.91	-160.62	1,170.65	1,130.41	40.24	29.092		
5,600.00	5,401.54	5,408.96	5,384.40	30.99	19.11	161.32	369.51	-160.37	1,199.97	1,159.07	40.90	29.336		
5,700.00	5,496.71	5,513.28	5,488.72	31.65	19.45	157.31	369.37	-160.39	1,229.17	1,187.51	41.66	29.508		
5,800.00	5,591.13	5,606.73	5,582.11	32.30	19.74	128.80	367.02	-160.13	1,254.86	1,212.55	42.32	29.654		
5,900.00	5,682.22	5,774.97	5,744.93	32.92	20.14	114.49	327.50	-155.28	1,274.09	1,231.01	43.08	29.573		
6,000.00	5,767.23	5,874.92	5,834.18	33.50	20.31	107.24	282.87	-153.08	1,287.75	1,244.28	43.46	29.629		
6,100.00	5,843.56	5,932.81	5,882.15	34.04	20.39	102.59	250.52	-152.49	1,301.74	1,258.02	43.72	29.773		
6,200.00	5,908.90	5,939.45	5,887.40	34.53	20.40	97.65	246.47	-152.43	1,318.83	1,275.02	43.82	30.100		
6,300.00	5,961.25	5,932.15	5,881.62	34.99	20.39	93.13	250.92	-152.50	1,338.83	1,295.04	43.79	30.574		
6,400.00	5,999.04	5,916.21	5,868.75	35.42	20.37	88.96	260.33	-152.61	1,360.79	1,317.10	43.69	31.146		
6,500.00	6,021.11	5,883.96	5,841.95	35.83	20.32	84.80	278.25	-152.91	1,383.39	1,339.89	43.50	31.804		
6,600.00	6,027.00	5,845.18	5,808.53	36.24	20.26	81.46	297.90	-153.65	1,405.11	1,361.83	43.28	32.464		
6,700.00	6,027.00	5,821.00	5,787.04	36.68	20.22	80.57	308.97	-154.21	1,429.96	1,386.75	43.21	33.096		
6,800.00	6,027.00	5,790.00	5,758.84	37.20	20.17	79.41	321.80	-154.94	1,460.53	1,417.46	43.08	33.907		
6,900.00	6,027.00	5,777.66	5,747.43	37.80	20.14	78.94	326.50	-155.22	1,496.57	1,453.44	43.13	34.700		
7,000.00	6,027.00	5,758.00	5,729.08	38.47	20.10	78.20	333.53	-155.64	1,537.88	1,494.76	43.13	35.660		
7,100.00	6,027.00	5,743.46	5,715.37	39.21	20.07	77.64	338.38	-155.96	1,584.06	1,540.88	43.18	36.683		
7,200.00	6,027.00	5,726.00	5,698.79	40.02	20.04	76.97	343.81	-156.42	1,634.71	1,591.50	43.22	37.825		
7,300.00	6,027.00	5,713.97	5,687.28	40.89	20.01	76.50	347.30	-156.78	1,689.51	1,646.20	43.31	39.009		
7,400.00	6,027.00	5,694.00	5,668.03	41.83	19.97	75.72	352.57	-157.47	1,748.17	1,704.85	43.33	40.350		
7,500.00	6,027.00	5,694.00	5,668.03	42.83	19.97	75.72	352.57	-157.47	1,810.20	1,766.66	43.54	41.574		
7,600.00	6,027.00	5,694.00	5,668.03	43.88	19.97	75.72	352.57	-157.47	1,875.52	1,831.77	43.75	42.869		
7,700.00	6,027.00	5,680.00	5,654.43	44.99	19.94	75.18	355.85	-158.00	1,943.60	1,899.78	43.82	44.359		
7,800.00	6,027.00	5,663.00	5,637.80	46.14	19.89	74.52	359.34	-158.61	2,014.46	1,970.61	43.85	45.940		
7,900.00	6,027.00	5,663.00	5,637.80	47.33	19.89	74.52	359.34	-158.61	2,087.45	2,043.41	44.04	47.403		
8,000.00	6,027.00	5,663.00	5,637.80	48.57	19.89	74.52	359.34	-158.61	2,162.59	2,118.38	44.21	48.915		
8,100.00	6,027.00	5,663.00	5,637.80	49.84	19.89	74.52	359.34	-158.61	2,239.69	2,195.31	44.38	50.471		
8,200.00	6,027.00	5,663.00	5,637.80	51.15	19.89	74.52	359.34	-158.61	2,318.53	2,274.00	44.53	52.067		
8,300.00	6,027.00	5,663.00	5,637.80	52.48	19.89	74.52	359.34	-158.61	2,398.95	2,354.28	44.67	53.700		
8,400.00	6,027.00	5,663.00	5,637.80	53.85	19.89	74.52	359.34	-158.61	2,480.80	2,435.99	44.81	55.364		
8,500.00	6,027.00	5,647.24	5,622.29	55.24	19.85	73.90	362.09	-159.13	2,563.66	2,518.84	44.82	57.200		
8,600.00	6,027.00	5,644.43	5,619.52	56.65	19.85	73.79	362.53	-159.22	2,647.86	2,602.94	44.92	58.943		
8,700.00	6,027.00	5,631.00	5,606.23	58.08	19.81	73.27	364.44	-159.59	2,733.23	2,688.28	44.95	60.813		
8,800.00	6,027.00	5,631.00	5,606.23	59.54	19.81	73.27	364.44	-159.59	2,819.38	2,774.32	45.06	62.572		
8,900.00	6,027.00	5,631.00	5,606.23	61.01	19.81	73.27	364.44	-159.59	2,906.42	2,861.25	45.17	64.351		
9,000.00	6,027.00	5,631.00	5,606.23	62.50	19.81	73.27	364.44	-159.59	2,994.27	2,949.00	45.27	66.147		
9,100.00	6,027.00	5,631.00	5,606.23	64.01	19.81	73.27	364.44	-159.59	3,082.85	3,037.49	45.36	67.959		
9,200.00	6,027.00	5,631.00	5,606.23	65.53	19.81	73.27	364.44	-159.59	3,172.12	3,126.67	45.46	69.786		
9,300.00	6,027.00	5,631.00	5,606.23	67.06	19.81	73.27	364.44	-159.59	3,262.01	3,216.47	45.54	71.624		
9,400.00	6,027.00	5,631.00	5,606.23	68.61	19.81	73.27	364.44	-159.59	3,352.47	3,306.85	45.63	73.474		
9,500.00	6,027.00	5,631.00	5,606.23	70.17	19.81	73.27	364.44	-159.59	3,443.46	3,397.75	45.71	75.334		
9,600.00	6,027.00	5,631.00	5,606.23	71.73	19.81	73.27	364.44	-159.59	3,534.94	3,489.15	45.79	77.203		
9,700.00	6,027.00	5,631.00	5,606.23	73.31	19.81	73.27	364.44	-159.59	3,626.87	3,581.00	45.86	79.080		
9,800.00	6,027.00	5,631.00	5,606.23	74.90	19.81	73.27	364.44	-159.59	3,719.21	3,673.27	45.94	80.964		
9,900.00	6,027.00	5,631.00	5,606.23	76.50	19.81	73.27	364.44	-159.59	3,811.94	3,765.93	46.01	82.854		
10,000.00	6,027.00	5,631.00	5,606.23	78.10	19.81	73.27	364.44	-159.59	3,905.03	3,858.95	46.08	84.749		
10,100.00	6,027.00	5,631.00	5,606.23	79.71	19.81	73.27	364.44	-159.59	3,998.45	3,952.31	46.15	86.649		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 488-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	6,027.00	5,616.31	5,591.65	81.33	19.77	72.70	366.14	-159.94	4,091.95	4,045.81	46.14	88.690	
10,300.00	6,027.00	5,615.20	5,590.54	82.96	19.76	72.65	366.25	-159.96	4,185.94	4,139.74	46.20	90.608	
10,400.00	6,027.00	5,614.13	5,589.48	84.59	19.76	72.61	366.36	-159.98	4,280.19	4,233.93	46.26	92.528	
10,500.00	6,027.00	5,599.00	5,574.40	86.23	19.72	72.03	367.61	-160.26	4,374.92	4,328.67	46.25	94.593	
10,600.00	6,027.00	5,599.00	5,574.40	87.87	19.72	72.03	367.61	-160.26	4,469.64	4,423.32	46.31	96.507	
10,700.00	6,027.00	5,599.00	5,574.40	89.52	19.72	72.03	367.61	-160.26	4,564.58	4,518.20	46.38	98.423	
10,800.00	6,027.00	5,599.00	5,574.40	91.17	19.72	72.03	367.61	-160.26	4,659.73	4,613.29	46.44	100.339	
10,900.00	6,027.00	5,599.00	5,574.40	92.83	19.72	72.03	367.61	-160.26	4,755.08	4,708.58	46.50	102.256	
11,000.00	6,027.00	5,599.00	5,574.40	94.49	19.72	72.03	367.61	-160.26	4,850.62	4,804.06	46.56	104.174	
11,100.00	6,027.00	5,599.00	5,574.40	96.16	19.72	72.03	367.61	-160.26	4,946.34	4,899.72	46.62	106.091	
11,200.00	6,027.00	5,599.00	5,574.40	97.83	19.72	72.03	367.61	-160.26	5,042.22	4,995.54	46.68	108.008	
11,300.00	6,027.00	5,599.00	5,574.40	99.50	19.72	72.03	367.61	-160.26	5,138.26	5,091.52	46.74	109.924	
11,400.00	6,027.00	5,599.00	5,574.40	101.18	19.72	72.03	367.61	-160.26	5,234.45	5,187.65	46.80	111.839	
11,500.00	6,027.00	5,599.00	5,574.40	102.86	19.72	72.03	367.61	-160.26	5,330.78	5,283.92	46.86	113.753	
11,600.00	6,027.00	5,599.00	5,574.40	104.54	19.72	72.03	367.61	-160.26	5,427.24	5,380.32	46.92	115.665	
11,700.00	6,027.00	5,599.00	5,574.40	106.23	19.72	72.03	367.61	-160.26	5,523.83	5,476.85	46.98	117.576	
11,800.00	6,027.00	5,599.00	5,574.40	107.92	19.72	72.03	367.61	-160.26	5,620.53	5,573.49	47.04	119.484	
11,900.00	6,027.00	5,599.00	5,574.40	109.61	19.72	72.03	367.61	-160.26	5,717.35	5,670.25	47.10	121.391	
12,000.00	6,027.00	5,599.00	5,574.40	111.31	19.72	72.03	367.61	-160.26	5,814.28	5,767.12	47.16	123.294	
12,100.00	6,027.00	5,599.00	5,574.40	113.00	19.72	72.03	367.61	-160.26	5,911.31	5,864.09	47.22	125.195	
12,200.00	6,027.00	5,599.00	5,574.40	114.71	19.72	72.03	367.61	-160.26	6,008.44	5,961.16	47.28	127.093	
12,300.00	6,027.00	5,599.00	5,574.40	116.41	19.72	72.03	367.61	-160.26	6,105.66	6,058.32	47.33	128.988	
12,400.00	6,027.00	5,599.00	5,574.40	118.11	19.72	72.03	367.61	-160.26	6,202.96	6,155.57	47.39	130.880	
12,500.00	6,027.00	5,599.00	5,574.40	119.82	19.72	72.03	367.61	-160.26	6,300.36	6,252.90	47.45	132.769	
12,600.00	6,027.00	5,599.00	5,574.40	121.53	19.72	72.03	367.61	-160.26	6,397.83	6,350.32	47.51	134.654	
12,700.00	6,027.00	5,599.00	5,574.40	123.24	19.72	72.03	367.61	-160.26	6,495.38	6,447.81	47.57	136.535	
12,800.00	6,027.00	5,599.00	5,574.40	124.95	19.72	72.03	367.61	-160.26	6,593.00	6,545.37	47.63	138.413	
12,900.00	6,027.00	5,599.00	5,574.40	126.66	19.72	72.03	367.61	-160.26	6,690.70	6,643.00	47.69	140.286	
13,000.00	6,027.00	5,599.00	5,574.40	128.38	19.72	72.03	367.61	-160.26	6,788.46	6,740.70	47.75	142.156	
13,100.00	6,027.00	5,599.00	5,574.40	130.10	19.72	72.03	367.61	-160.26	6,886.28	6,838.47	47.81	144.021	
13,200.00	6,027.00	5,599.00	5,574.40	131.82	19.72	72.03	367.61	-160.26	6,984.17	6,936.29	47.88	145.882	
13,300.00	6,027.00	5,599.00	5,574.40	133.54	19.72	72.03	367.61	-160.26	7,082.11	7,034.18	47.94	147.739	
13,400.00	6,027.00	5,599.00	5,574.40	135.26	19.72	72.03	367.61	-160.26	7,180.12	7,132.12	48.00	149.591	
13,500.00	6,027.00	5,599.00	5,574.40	136.98	19.72	72.03	367.61	-160.26	7,278.17	7,230.11	48.06	151.438	
13,600.00	6,027.00	5,599.00	5,574.40	138.71	19.72	72.03	367.61	-160.26	7,376.28	7,328.16	48.12	153.281	
13,700.00	6,027.00	5,599.00	5,574.40	140.43	19.72	72.03	367.61	-160.26	7,474.44	7,426.25	48.19	155.118	
13,800.00	6,027.00	5,599.00	5,574.40	142.16	19.72	72.03	367.61	-160.26	7,572.65	7,524.40	48.25	156.951	
13,900.00	6,027.00	5,599.00	5,574.40	143.89	19.72	72.03	367.61	-160.26	7,670.90	7,622.59	48.31	158.779	
14,000.00	6,027.00	5,599.00	5,574.40	145.62	19.72	72.03	367.61	-160.26	7,769.20	7,720.82	48.38	160.602	
14,100.00	6,027.00	5,599.00	5,574.40	147.35	19.72	72.03	367.61	-160.26	7,867.54	7,819.10	48.44	162.420	
14,200.00	6,027.00	5,599.00	5,574.40	149.08	19.72	72.03	367.61	-160.26	7,965.92	7,917.42	48.50	164.232	
14,300.00	6,027.00	5,599.00	5,574.40	150.81	19.72	72.03	367.61	-160.26	8,064.34	8,015.77	48.57	166.039	
14,400.00	6,027.00	5,599.00	5,574.40	152.54	19.72	72.03	367.61	-160.26	8,162.80	8,114.17	48.63	167.841	
14,500.00	6,027.00	5,599.00	5,574.40	154.28	19.72	72.03	367.61	-160.26	8,261.30	8,212.60	48.70	169.637	
14,600.00	6,027.00	5,599.00	5,574.40	156.01	19.72	72.03	367.61	-160.26	8,359.83	8,311.07	48.77	171.428	
14,700.00	6,027.00	5,599.00	5,574.40	157.75	19.72	72.03	367.61	-160.26	8,458.40	8,409.57	48.83	173.213	
14,800.00	6,027.00	5,599.00	5,574.40	159.49	19.72	72.03	367.61	-160.26	8,557.00	8,508.10	48.90	174.992	
14,900.00	6,027.00	5,599.00	5,574.40	161.22	19.72	72.03	367.61	-160.26	8,655.63	8,606.67	48.97	176.766	
15,000.00	6,027.00	5,599.00	5,574.40	162.96	19.72	72.03	367.61	-160.26	8,754.30	8,705.26	49.03	178.534	
15,100.00	6,027.00	5,599.00	5,574.40	164.70	19.72	72.03	367.61	-160.26	8,852.99	8,803.89	49.10	180.296	
15,200.00	6,027.00	5,599.00	5,574.40	166.44	19.72	72.03	367.61	-160.26	8,951.72	8,902.54	49.17	182.053	
15,300.00	6,027.00	5,599.00	5,574.40	168.18	19.72	72.03	367.61	-160.26	9,050.47	9,001.23	49.24	183.803	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		SEC 16-T5N-R61W - EXIST HZ STATE PRONGHORN F-J-16HNB - OWB - FINAL SURVEY										<b>Offset Site Error:</b>	0.00 usft
Survey Program:		488-MWD OWSG										<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.00	6,027.00	5,599.00	5,574.40	169.93	19.72	72.03	367.61	-160.26	9,149.24	9,099.93	49.31	185.548	
15,500.00	6,027.00	5,599.00	5,574.40	171.67	19.72	72.03	367.61	-160.26	9,248.05	9,198.67	49.38	187.286	
15,600.00	6,027.00	5,599.00	5,574.40	173.41	19.72	72.03	367.61	-160.26	9,346.88	9,297.43	49.45	189.019	
15,700.00	6,027.00	5,599.00	5,574.40	175.15	19.72	72.03	367.61	-160.26	9,445.73	9,396.21	49.52	190.746	
15,800.00	6,027.00	5,599.00	5,574.40	176.90	19.72	72.03	367.61	-160.26	9,544.61	9,495.02	49.59	192.466	
15,900.00	6,027.00	5,599.00	5,574.40	178.64	19.72	72.03	367.61	-160.26	9,643.51	9,593.85	49.66	194.180	
16,000.00	6,027.00	5,584.28	5,559.71	180.39	19.67	71.46	368.44	-160.45	9,742.25	9,692.57	49.69	196.077	
16,100.00	6,027.00	5,584.00	5,559.43	182.13	19.67	71.45	368.45	-160.45	9,841.19	9,791.44	49.76	197.783	
16,200.00	6,027.00	5,583.73	5,559.16	183.88	19.67	71.44	368.47	-160.46	9,940.15	9,890.32	49.83	199.483	
16,300.00	6,027.00	5,583.47	5,558.89	185.63	19.67	71.43	368.48	-160.46	10,039.13	9,989.23	49.90	201.177	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.07	0.00	40.07					
100.00	100.00	100.00	100.00	0.27	0.27	0.00	40.07	0.00	40.07	39.53	0.54	74.520		
200.00	200.00	200.00	200.00	0.63	0.63	0.00	40.07	0.00	40.07	38.82	1.25	31.937		
300.00	300.00	300.00	300.00	0.99	0.99	0.00	40.07	0.00	40.07	38.10	1.97	20.324		
330.40	330.40	330.40	330.40	1.09	1.09	-0.23	40.07	-0.16	40.07	37.88	2.19	18.319 CC		
400.00	400.00	399.97	399.94	1.34	1.34	-2.49	40.06	-1.74	40.10	37.42	2.68	14.956		
500.00	500.00	499.69	499.53	1.70	1.69	-9.86	40.04	-6.96	40.64	37.25	3.39	11.985 ES		
600.00	600.00	598.93	598.39	2.06	2.05	-21.28	40.01	-15.58	42.96	38.85	4.11	10.450		
700.00	700.00	697.45	696.18	2.42	2.43	-34.56	39.96	-27.53	48.67	43.84	4.84	10.065		
800.00	800.00	795.04	792.58	2.78	2.83	-46.92	39.90	-42.67	58.88	53.33	5.55	10.609		
900.00	900.00	891.48	887.29	3.14	3.25	-56.79	39.82	-60.84	73.82	67.57	6.25	11.816		
1,000.00	999.98	986.97	980.40	3.49	3.70	25.42	39.74	-81.97	91.63	84.71	6.92	13.242		
1,100.00	1,099.84	1,081.83	1,072.16	3.83	4.19	20.70	39.64	-106.02	110.18	102.61	7.57	14.546		
1,200.00	1,199.45	1,176.08	1,162.49	4.19	4.71	17.36	39.53	-132.92	129.05	120.82	8.23	15.683		
1,300.00	1,298.70	1,269.75	1,251.34	4.55	5.28	14.87	39.41	-162.57	148.02	139.14	8.88	16.664		
1,400.00	1,397.47	1,362.85	1,338.63	4.94	5.89	12.95	39.28	-194.91	166.97	157.43	9.54	17.510		
1,500.00	1,495.62	1,455.39	1,424.32	5.34	6.55	11.42	39.14	-229.85	185.81	175.62	10.19	18.236		
1,600.00	1,593.06	1,547.40	1,508.36	5.78	7.26	10.18	38.99	-267.31	204.48	193.64	10.84	18.858		
1,700.00	1,689.64	1,638.89	1,590.68	6.24	8.03	9.15	38.83	-307.22	222.95	211.45	11.50	19.388		
1,800.00	1,785.27	1,729.88	1,671.25	6.75	8.84	8.27	38.65	-349.50	241.17	229.02	12.16	19.841		
1,900.00	1,880.44	1,820.03	1,749.70	7.30	9.71	7.52	38.47	-393.88	261.00	248.18	12.82	20.363		
2,000.00	1,975.60	1,908.93	1,825.67	7.86	10.62	6.79	38.29	-440.05	283.90	270.42	13.47	21.073		
2,100.00	2,070.77	2,001.97	1,903.92	8.43	11.63	6.09	38.08	-490.40	309.29	295.06	14.23	21.738		
2,200.00	2,165.93	2,098.56	1,985.01	9.02	12.71	5.46	37.87	-542.86	334.97	319.91	15.07	22.233		
2,300.00	2,261.10	2,195.14	2,066.11	9.62	13.79	4.93	37.66	-595.32	360.69	344.78	15.91	22.668		
2,400.00	2,356.26	2,291.73	2,147.20	10.23	14.89	4.46	37.45	-647.78	386.43	369.67	16.76	23.051		
2,500.00	2,451.43	2,388.32	2,228.30	10.84	15.99	4.05	37.23	-700.25	412.19	394.57	17.62	23.390		
2,600.00	2,546.59	2,484.90	2,309.39	11.46	17.10	3.69	37.02	-752.71	437.97	419.49	18.49	23.692		
2,700.00	2,641.76	2,581.49	2,390.49	12.09	18.21	3.37	36.81	-805.17	463.77	444.41	19.35	23.963		
2,800.00	2,736.92	2,678.07	2,471.58	12.72	19.33	3.08	36.60	-857.63	489.57	469.35	20.23	24.206		
2,900.00	2,832.09	2,774.66	2,552.68	13.35	20.45	2.83	36.38	-910.10	515.39	494.29	21.10	24.426		
3,000.00	2,927.25	2,871.24	2,633.77	13.99	21.58	2.59	36.17	-962.56	541.21	519.24	21.98	24.625		
3,100.00	3,022.42	2,967.83	2,714.87	14.63	22.70	2.38	35.96	-1,015.02	567.05	544.19	22.86	24.806		
3,200.00	3,117.58	3,064.41	2,795.96	15.27	23.83	2.19	35.74	-1,067.48	592.89	569.14	23.74	24.972		
3,300.00	3,212.75	3,161.00	2,877.06	15.91	24.96	2.01	35.53	-1,119.94	618.73	594.10	24.63	25.124		
3,400.00	3,307.91	3,257.59	2,958.16	16.56	26.10	1.85	35.32	-1,172.41	644.58	619.07	25.51	25.263		
3,500.00	3,403.08	3,354.17	3,039.25	17.20	27.23	1.70	35.11	-1,224.87	670.44	644.03	26.40	25.391		
3,600.00	3,498.24	3,450.76	3,120.35	17.85	28.36	1.56	34.89	-1,277.33	696.29	669.00	27.29	25.510		
3,700.00	3,593.41	3,547.34	3,201.44	18.50	29.50	1.43	34.68	-1,329.79	722.16	693.97	28.19	25.620		
3,800.00	3,688.57	3,643.93	3,282.54	19.15	30.64	1.31	34.47	-1,382.25	748.02	718.94	29.08	25.722		
3,900.00	3,783.74	3,740.51	3,363.63	19.81	31.78	1.20	34.26	-1,434.72	773.89	743.91	29.98	25.817		
4,000.00	3,878.90	3,837.10	3,444.73	20.46	32.91	1.09	34.04	-1,487.18	799.76	768.89	30.87	25.906		
4,100.00	3,974.07	3,933.68	3,525.82	21.11	34.05	0.99	33.83	-1,539.64	825.63	793.87	31.77	25.989		
4,200.00	4,069.23	4,030.27	3,606.92	21.77	35.19	0.90	33.62	-1,592.10	851.51	818.84	32.67	26.067		
4,300.00	4,164.40	4,126.86	3,688.01	22.42	36.34	0.81	33.41	-1,644.56	877.39	843.82	33.57	26.140		
4,400.00	4,259.56	4,223.44	3,769.11	23.08	37.48	0.73	33.19	-1,697.03	903.27	868.80	34.47	26.208		
4,500.00	4,354.73	4,320.03	3,850.20	23.74	38.62	0.65	32.98	-1,749.49	929.15	893.78	35.37	26.272		
4,600.00	4,449.89	4,416.61	3,931.30	24.39	39.76	0.58	32.77	-1,801.95	955.03	918.76	36.27	26.333		
4,700.00	4,545.06	4,513.20	4,012.39	25.05	40.90	0.51	32.56	-1,854.41	980.91	943.74	37.17	26.391		
4,800.00	4,640.22	4,609.78	4,093.49	25.71	42.05	0.45	32.34	-1,906.87	1,006.80	968.72	38.07	26.445		
4,900.00	4,735.39	4,706.37	4,174.58	26.37	43.19	0.38	32.13	-1,959.34	1,032.68	993.71	38.97	26.496		
5,000.00	4,830.55	4,802.95	4,255.68	27.03	44.33	0.32	31.92	-2,011.80	1,058.57	1,018.69	39.88	26.545		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,925.72	4,899.54	4,336.78	27.69	45.48	0.27	31.71	-2,064.26	1,084.46	1,043.67	40.78	26.591		
5,200.00	5,020.88	4,996.12	4,417.87	28.35	46.62	0.21	31.49	-2,116.72	1,110.35	1,068.66	41.69	26.635		
5,300.00	5,116.05	5,092.71	4,498.97	29.01	47.77	0.16	31.28	-2,169.18	1,136.24	1,093.64	42.59	26.676		
5,400.00	5,211.21	5,189.30	4,580.06	29.67	48.91	0.11	31.07	-2,221.65	1,162.13	1,118.63	43.50	26.716		
5,500.00	5,306.38	5,285.88	4,661.16	30.33	50.06	0.07	30.86	-2,274.11	1,188.02	1,143.61	44.41	26.754		
5,600.00	5,401.54	5,382.47	4,742.25	30.99	51.20	0.02	30.64	-2,326.57	1,213.91	1,168.60	45.31	26.790		
5,700.00	5,496.71	5,479.05	4,823.35	31.65	52.35	-3.81	30.43	-2,379.03	1,239.80	1,193.58	46.22	26.825		
5,800.00	5,591.13	5,574.86	4,903.79	32.30	53.48	-28.72	30.22	-2,431.07	1,265.43	1,218.33	47.10	26.867		
5,900.00	5,682.22	5,667.25	4,981.37	32.92	54.58	-44.24	30.02	-2,481.26	1,290.51	1,242.53	47.98	26.894		
6,000.00	5,767.23	5,753.44	5,053.73	33.50	55.60	-53.09	29.83	-2,528.07	1,315.34	1,266.34	48.99	26.847		
6,100.00	5,843.56	5,830.78	5,118.67	34.04	56.52	-58.26	29.66	-2,570.08	1,340.62	1,290.33	50.29	26.658		
6,200.00	5,908.90	5,896.94	5,174.22	34.53	57.30	-61.16	29.51	-2,606.02	1,367.28	1,315.26	52.02	26.282		
6,300.00	5,961.25	5,949.91	5,218.69	34.99	57.93	-62.30	29.39	-2,634.79	1,396.17	1,341.89	54.28	25.723		
6,400.00	5,999.04	5,988.07	5,250.73	35.42	58.39	-61.86	29.31	-2,655.52	1,427.83	1,370.81	57.02	25.039		
6,500.00	6,021.11	6,010.27	5,269.37	35.83	58.65	-59.87	29.26	-2,667.57	1,462.36	1,402.23	60.13	24.320		
6,600.00	6,027.00	6,016.04	5,274.21	36.24	58.72	-57.05	29.25	-2,670.71	1,499.32	1,435.93	63.39	23.653		
6,700.00	6,027.00	6,015.83	5,274.04	36.68	58.71	-57.04	29.25	-2,670.59	1,540.54	1,473.86	66.68	23.105		
6,800.00	6,027.00	6,015.62	5,273.86	37.20	58.71	-57.03	29.25	-2,670.48	1,586.99	1,517.08	69.91	22.701		
6,900.00	6,027.00	6,015.41	5,273.69	37.80	58.71	-57.02	29.25	-2,670.37	1,638.24	1,565.23	73.01	22.438		
7,000.00	6,027.00	7,643.42	6,027.00	38.47	70.39	-90.00	1,005.09	-3,158.23	1,648.76	1,585.78	62.97	26.182		
7,100.00	6,027.00	7,743.43	6,027.00	39.21	70.70	-90.00	1,105.09	-3,158.28	1,648.79	1,583.76	65.03	25.355		
7,200.00	6,027.00	7,843.43	6,027.00	40.02	71.05	-90.00	1,205.10	-3,158.34	1,648.82	1,581.62	67.20	24.534		
7,300.00	6,027.00	7,943.43	6,027.00	40.89	71.42	-90.00	1,305.10	-3,158.39	1,648.85	1,579.36	69.50	23.726		
7,400.00	6,027.00	8,043.44	6,027.00	41.83	71.83	-90.00	1,405.10	-3,158.44	1,648.88	1,577.00	71.89	22.937		
7,500.00	6,027.00	8,143.44	6,027.00	42.83	72.27	-90.00	1,505.11	-3,158.49	1,648.91	1,574.54	74.37	22.171		
7,600.00	6,027.00	8,243.45	6,027.00	43.88	72.75	-90.00	1,605.11	-3,158.54	1,648.95	1,572.01	76.94	21.432		
7,700.00	6,027.00	8,343.45	6,027.00	44.99	73.25	-90.00	1,705.12	-3,158.60	1,648.98	1,569.39	79.58	20.721		
7,800.00	6,027.00	8,443.45	6,027.00	46.14	73.79	-90.00	1,805.12	-3,158.65	1,649.01	1,566.71	82.29	20.038		
7,900.00	6,027.00	8,543.46	6,027.00	47.33	74.37	-90.00	1,905.12	-3,158.70	1,649.04	1,563.97	85.06	19.386		
8,000.00	6,027.00	8,643.46	6,027.00	48.57	74.98	-90.00	2,005.13	-3,158.75	1,649.07	1,561.17	87.89	18.763		
8,100.00	6,027.00	8,743.47	6,027.00	49.84	75.62	-90.00	2,105.13	-3,158.80	1,649.10	1,558.33	90.77	18.168		
8,200.00	6,027.00	8,843.47	6,027.00	51.15	76.29	-90.00	2,205.14	-3,158.85	1,649.13	1,555.43	93.69	17.601		
8,300.00	6,027.00	8,943.48	6,027.00	52.48	77.00	-90.00	2,305.14	-3,158.90	1,649.15	1,552.50	96.66	17.062		
8,400.00	6,027.00	9,043.48	6,027.00	53.85	77.75	-90.00	2,405.15	-3,158.95	1,649.18	1,549.52	99.66	16.548		
8,500.00	6,027.00	9,143.48	6,027.00	55.24	78.53	-90.00	2,505.15	-3,159.00	1,649.21	1,546.51	102.70	16.058		
8,600.00	6,027.00	9,243.49	6,027.00	56.65	79.34	-90.00	2,605.15	-3,159.05	1,649.24	1,543.47	105.77	15.593		
8,700.00	6,027.00	9,343.49	6,027.00	58.08	80.18	-90.00	2,705.16	-3,159.10	1,649.27	1,540.40	108.87	15.149		
8,800.00	6,027.00	9,443.50	6,027.00	59.54	81.06	-90.00	2,805.16	-3,159.15	1,649.30	1,537.30	111.99	14.727		
8,900.00	6,027.00	9,543.50	6,027.00	61.01	81.97	-90.00	2,905.17	-3,159.20	1,649.32	1,534.18	115.14	14.324		
9,000.00	6,027.00	9,643.50	6,027.00	62.50	82.91	-90.00	3,005.17	-3,159.25	1,649.35	1,531.03	118.32	13.940		
9,100.00	6,027.00	9,743.51	6,027.00	64.01	83.88	-90.00	3,105.17	-3,159.30	1,649.38	1,527.87	121.51	13.574		
9,200.00	6,027.00	9,843.51	6,027.00	65.53	84.89	-90.00	3,205.18	-3,159.34	1,649.41	1,524.68	124.72	13.225		
9,300.00	6,027.00	9,943.52	6,027.00	67.06	85.92	-90.00	3,305.18	-3,159.39	1,649.43	1,521.48	127.95	12.891		
9,400.00	6,027.00	10,043.52	6,027.00	68.61	86.98	-90.00	3,405.19	-3,159.44	1,649.46	1,518.26	131.20	12.572		
9,500.00	6,027.00	10,143.52	6,027.00	70.17	88.06	-90.00	3,505.19	-3,159.49	1,649.49	1,515.02	134.46	12.267		
9,600.00	6,027.00	10,243.53	6,027.00	71.73	89.18	-90.00	3,605.19	-3,159.53	1,649.51	1,511.77	137.74	11.976		
9,700.00	6,027.00	10,343.53	6,027.00	73.31	90.32	-90.00	3,705.20	-3,159.58	1,649.54	1,508.51	141.03	11.697		
9,800.00	6,027.00	10,443.54	6,027.00	74.90	91.48	-90.00	3,805.20	-3,159.63	1,649.56	1,505.23	144.33	11.429		
9,900.00	6,027.00	10,543.54	6,027.00	76.50	92.67	-90.00	3,905.21	-3,159.67	1,649.59	1,501.95	147.64	11.173		
10,000.00	6,027.00	10,643.54	6,027.00	78.10	93.88	-90.00	4,005.21	-3,159.72	1,649.61	1,498.65	150.96	10.927		
10,100.00	6,027.00	10,743.55	6,027.00	79.71	95.11	-90.00	4,105.21	-3,159.77	1,649.64	1,495.34	154.30	10.691		
10,200.00	6,027.00	10,843.55	6,027.00	81.33	96.37	-90.00	4,205.22	-3,159.81	1,649.66	1,492.02	157.64	10.465		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	10,943.56	6,027.00	82.96	97.64	-90.00	4,305.22	-3,159.86	1,649.69	1,488.69	160.99	10.247		
10,400.00	6,027.00	11,043.56	6,027.00	84.59	98.93	-90.00	4,405.23	-3,159.90	1,649.71	1,485.36	164.35	10.038		
10,500.00	6,027.00	11,143.57	6,027.00	86.23	100.24	-90.00	4,505.23	-3,159.95	1,649.73	1,482.01	167.72	9.836		
10,600.00	6,027.00	11,243.57	6,027.00	87.87	101.57	-90.00	4,605.23	-3,159.99	1,649.76	1,478.66	171.10	9.642		
10,700.00	6,027.00	11,343.57	6,027.00	89.52	102.92	-90.00	4,705.24	-3,160.04	1,649.78	1,475.30	174.48	9.456		
10,800.00	6,027.00	11,443.58	6,027.00	91.17	104.28	-90.00	4,805.24	-3,160.08	1,649.80	1,471.94	177.87	9.276		
10,900.00	6,027.00	11,543.58	6,027.00	92.83	105.66	-90.00	4,905.25	-3,160.12	1,649.83	1,468.56	181.26	9.102		
11,000.00	6,027.00	11,643.59	6,027.00	94.49	107.05	-90.00	5,005.25	-3,160.17	1,649.85	1,465.19	184.66	8.934		
11,100.00	6,027.00	11,743.59	6,027.00	96.16	108.45	-90.00	5,105.25	-3,160.21	1,649.87	1,461.80	188.07	8.773		
11,200.00	6,027.00	11,843.59	6,027.00	97.83	109.87	-90.00	5,205.26	-3,160.25	1,649.89	1,458.41	191.48	8.617		
11,300.00	6,027.00	11,943.60	6,027.00	99.50	111.30	-90.00	5,305.26	-3,160.30	1,649.91	1,455.02	194.90	8.466		
11,400.00	6,027.00	12,043.60	6,027.00	101.18	112.74	-90.00	5,405.27	-3,160.34	1,649.94	1,451.62	198.32	8.320		
11,500.00	6,027.00	12,143.61	6,027.00	102.86	114.20	-90.00	5,505.27	-3,160.38	1,649.96	1,448.22	201.74	8.179		
11,600.00	6,027.00	12,243.61	6,027.00	104.54	115.66	-90.00	5,605.28	-3,160.42	1,649.98	1,444.81	205.17	8.042		
11,700.00	6,027.00	12,343.61	6,027.00	106.23	117.14	-90.00	5,705.28	-3,160.47	1,650.00	1,441.39	208.60	7.910		
11,800.00	6,027.00	12,443.62	6,027.00	107.92	118.62	-90.00	5,805.28	-3,160.51	1,650.02	1,437.98	212.04	7.782		
11,900.00	6,027.00	12,543.62	6,027.00	109.61	120.12	-90.00	5,905.29	-3,160.55	1,650.04	1,434.56	215.48	7.657		
12,000.00	6,027.00	12,643.63	6,027.00	111.31	121.62	-90.00	6,005.29	-3,160.59	1,650.06	1,431.13	218.93	7.537		
12,100.00	6,027.00	12,743.63	6,027.00	113.00	123.14	-90.00	6,105.30	-3,160.63	1,650.08	1,427.71	222.37	7.420		
12,200.00	6,027.00	12,843.63	6,027.00	114.71	124.66	-90.00	6,205.30	-3,160.67	1,650.10	1,424.27	225.82	7.307		
12,300.00	6,027.00	12,943.64	6,027.00	116.41	126.19	-90.00	6,305.30	-3,160.71	1,650.12	1,420.84	229.28	7.197		
12,400.00	6,027.00	13,043.64	6,027.00	118.11	127.72	-90.00	6,405.31	-3,160.75	1,650.14	1,417.40	232.74	7.090		
12,500.00	6,027.00	13,143.65	6,027.00	119.82	129.27	-90.00	6,505.31	-3,160.79	1,650.16	1,413.96	236.19	6.986		
12,600.00	6,027.00	13,243.65	6,027.00	121.53	130.82	-90.00	6,605.32	-3,160.83	1,650.17	1,410.52	239.66	6.886		
12,700.00	6,027.00	13,343.65	6,027.00	123.24	132.38	-90.00	6,705.32	-3,160.87	1,650.19	1,407.07	243.12	6.788		
12,800.00	6,027.00	13,443.66	6,027.00	124.95	133.94	-90.00	6,805.32	-3,160.91	1,650.21	1,403.62	246.59	6.692		
12,900.00	6,027.00	13,543.66	6,027.00	126.66	135.51	-90.00	6,905.33	-3,160.95	1,650.23	1,400.17	250.06	6.599		
13,000.00	6,027.00	13,643.67	6,027.00	128.38	137.09	-90.00	7,005.33	-3,160.99	1,650.25	1,396.72	253.53	6.509		
13,100.00	6,027.00	13,743.67	6,027.00	130.10	138.67	-90.00	7,105.34	-3,161.03	1,650.26	1,393.26	257.00	6.421		
13,200.00	6,027.00	13,843.68	6,027.00	131.82	140.26	-90.00	7,205.34	-3,161.06	1,650.28	1,389.80	260.48	6.336		
13,300.00	6,027.00	13,943.68	6,027.00	133.54	141.85	-90.00	7,305.34	-3,161.10	1,650.30	1,386.34	263.96	6.252		
13,400.00	6,027.00	14,043.68	6,027.00	135.26	143.45	-90.00	7,405.35	-3,161.14	1,650.31	1,382.88	267.43	6.171		
13,500.00	6,027.00	14,143.69	6,027.00	136.98	145.05	-90.00	7,505.35	-3,161.18	1,650.33	1,379.41	270.92	6.092		
13,600.00	6,027.00	14,243.69	6,027.00	138.71	146.66	-90.00	7,605.36	-3,161.22	1,650.35	1,375.95	274.40	6.014		
13,700.00	6,027.00	14,343.70	6,027.00	140.43	148.27	-90.00	7,705.36	-3,161.25	1,650.36	1,372.48	277.88	5.939		
13,800.00	6,027.00	14,443.70	6,027.00	142.16	149.88	-90.00	7,805.36	-3,161.29	1,650.38	1,369.01	281.37	5.866		
13,900.00	6,027.00	14,543.70	6,027.00	143.89	151.50	-90.00	7,905.37	-3,161.33	1,650.39	1,365.54	284.86	5.794		
14,000.00	6,027.00	14,643.71	6,027.00	145.62	153.13	-90.00	8,005.37	-3,161.36	1,650.41	1,362.06	288.35	5.724		
14,100.00	6,027.00	14,743.71	6,027.00	147.35	154.76	-90.00	8,105.38	-3,161.40	1,650.42	1,358.59	291.84	5.655		
14,200.00	6,027.00	14,843.72	6,027.00	149.08	156.39	-90.00	8,205.38	-3,161.43	1,650.44	1,355.11	295.33	5.588		
14,300.00	6,027.00	14,943.72	6,027.00	150.81	158.02	-90.00	8,305.39	-3,161.47	1,650.45	1,351.63	298.82	5.523		
14,400.00	6,027.00	15,043.72	6,027.00	152.54	159.66	-90.00	8,405.39	-3,161.50	1,650.47	1,348.15	302.32	5.459		
14,500.00	6,027.00	15,143.73	6,027.00	154.28	161.30	-90.00	8,505.39	-3,161.54	1,650.48	1,344.67	305.81	5.397		
14,600.00	6,027.00	15,243.73	6,027.00	156.01	162.95	-90.00	8,605.40	-3,161.57	1,650.49	1,341.18	309.31	5.336		
14,700.00	6,027.00	15,343.74	6,027.00	157.75	164.59	-90.00	8,705.40	-3,161.61	1,650.51	1,337.70	312.81	5.276		
14,800.00	6,027.00	15,443.74	6,027.00	159.49	166.24	-90.00	8,805.41	-3,161.64	1,650.52	1,334.21	316.31	5.218		
14,900.00	6,027.00	15,543.74	6,027.00	161.22	167.90	-90.00	8,905.41	-3,161.68	1,650.53	1,330.72	319.81	5.161		
15,000.00	6,027.00	15,643.75	6,027.00	162.96	169.55	-90.00	9,005.41	-3,161.71	1,650.55	1,327.23	323.31	5.105		
15,100.00	6,027.00	15,743.75	6,027.00	164.70	171.21	-90.00	9,105.42	-3,161.74	1,650.56	1,323.74	326.81	5.050		
15,200.00	6,027.00	15,843.76	6,027.00	166.44	172.87	-90.00	9,205.42	-3,161.78	1,650.57	1,320.25	330.32	4.997		
15,300.00	6,027.00	15,943.76	6,027.00	168.18	174.54	-90.00	9,305.43	-3,161.81	1,650.58	1,316.76	333.82	4.944		
15,400.00	6,027.00	16,043.77	6,027.00	169.93	176.20	-90.00	9,405.43	-3,161.84	1,650.59	1,313.27	337.33	4.893		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01 - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	16,143.77	6,027.00	171.67	177.87	-90.00	9,505.43	-3,161.88	1,650.60	1,309.77	340.83	4.843	
15,600.00	6,027.00	16,243.77	6,027.00	173.41	179.54	-90.00	9,605.44	-3,161.91	1,650.62	1,306.27	344.34	4.794	
15,700.00	6,027.00	16,343.78	6,027.00	175.15	181.22	-90.00	9,705.44	-3,161.94	1,650.63	1,302.78	347.85	4.745	
15,800.00	6,027.00	16,443.78	6,027.00	176.90	182.89	-90.00	9,805.45	-3,161.97	1,650.64	1,299.28	351.36	4.698	
15,900.00	6,027.00	16,543.79	6,027.00	178.64	184.57	-90.00	9,905.45	-3,162.00	1,650.65	1,295.78	354.87	4.651	
16,000.00	6,027.00	16,643.79	6,027.00	180.39	186.25	-90.00	10,005.45	-3,162.03	1,650.66	1,292.28	358.38	4.606	
16,100.00	6,027.00	16,743.79	6,027.00	182.13	187.93	-90.00	10,105.46	-3,162.06	1,650.67	1,288.78	361.89	4.561	
16,200.00	6,027.00	16,843.80	6,027.00	183.88	189.61	-90.00	10,205.46	-3,162.10	1,650.68	1,285.27	365.40	4.517	
16,300.00	6,027.00	16,943.80	6,027.00	185.63	191.30	-90.00	10,305.47	-3,162.13	1,650.69	1,281.77	368.92	4.474	
16,400.00	6,027.00	17,043.81	6,027.00	187.38	192.98	-90.00	10,405.47	-3,162.16	1,650.70	1,278.27	372.43	4.432	
16,500.00	6,027.00	17,143.81	6,027.00	189.12	194.67	-90.00	10,505.48	-3,162.19	1,650.70	1,274.76	375.94	4.391	
16,600.00	6,027.00	17,243.81	6,027.00	190.87	196.36	-90.00	10,605.48	-3,162.22	1,650.71	1,271.26	379.46	4.350	
16,700.00	6,027.00	17,343.82	6,027.00	192.62	198.05	-90.00	10,705.48	-3,162.25	1,650.72	1,267.75	382.97	4.310	
16,795.97	6,027.00	17,439.79	6,027.00	194.30	199.68	-90.00	10,801.45	-3,162.27	1,650.73	1,264.38	386.35	4.273 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01E - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.94	0.00	61.95					
100.00	100.00	99.00	99.00	0.27	0.27	0.00	61.94	0.00	61.94	61.40	0.54	115.766		
200.00	200.00	199.00	199.00	0.63	0.62	0.00	61.94	0.00	61.94	60.69	1.25	49.507		
300.00	300.00	299.00	299.00	0.99	0.98	0.00	61.94	0.00	61.94	59.97	1.97	31.472		
400.00	400.00	399.00	399.00	1.34	1.34	0.00	61.94	0.00	61.94	59.25	2.68	23.068		
500.00	500.00	499.00	499.00	1.70	1.70	0.00	61.94	0.00	61.94	58.54	3.40	18.207		
576.22	576.22	575.23	575.22	1.98	1.97	-0.91	61.92	-0.99	61.93	57.99	3.94	15.708 CC		
600.00	600.00	598.99	598.98	2.06	2.05	-1.58	61.91	-1.71	61.93	57.82	4.11	15.065		
700.00	700.00	698.75	698.59	2.42	2.40	-6.36	61.83	-6.89	62.21	57.39	4.82	12.913 ES		
800.00	800.00	798.02	797.49	2.78	2.76	-14.09	61.69	-15.49	63.62	58.09	5.53	11.499		
900.00	900.00	896.58	895.32	3.14	3.13	-24.02	61.50	-27.40	67.43	61.18	6.25	10.782		
1,000.00	999.98	994.49	992.03	3.49	3.51	55.43	61.26	-42.56	73.92	66.96	6.97	10.612		
1,100.00	1,099.84	1,091.94	1,087.73	3.83	3.93	47.37	60.97	-60.93	82.10	74.43	7.67	10.709		
1,200.00	1,199.45	1,188.95	1,182.32	4.19	4.37	40.86	60.62	-82.43	91.46	83.10	8.36	10.936		
1,300.00	1,298.70	1,285.52	1,275.71	4.55	4.85	35.60	60.23	-107.01	101.63	92.58	9.06	11.223		
1,400.00	1,397.47	1,381.67	1,367.82	4.94	5.36	31.31	59.79	-134.59	112.35	102.60	9.75	11.527		
1,500.00	1,495.62	1,477.41	1,458.56	5.34	5.92	27.78	59.30	-165.11	123.41	112.97	10.44	11.826		
1,600.00	1,593.06	1,572.75	1,547.86	5.78	6.53	24.83	58.77	-198.49	134.68	123.56	11.12	12.108		
1,700.00	1,689.64	1,667.69	1,635.63	6.24	7.19	22.33	58.19	-234.67	146.06	134.25	11.81	12.366		
1,800.00	1,785.27	1,762.25	1,721.81	6.75	7.91	20.20	57.57	-273.58	157.48	144.98	12.50	12.600		
1,900.00	1,880.44	1,856.17	1,806.08	7.30	8.68	18.23	56.91	-315.01	170.69	157.52	13.18	12.952		
2,000.00	1,975.60	1,950.47	1,889.33	7.86	9.51	16.24	56.21	-359.29	187.08	173.21	13.87	13.487		
2,100.00	2,070.77	2,048.74	1,975.66	8.43	10.41	14.43	55.46	-406.23	204.55	189.88	14.67	13.941		
2,200.00	2,165.93	2,147.01	2,061.99	9.02	11.34	12.90	54.71	-453.18	222.20	206.72	15.48	14.353		
2,300.00	2,261.10	2,245.28	2,148.32	9.62	12.27	11.60	53.96	-500.12	239.97	223.68	16.30	14.726		
2,400.00	2,356.26	2,343.55	2,234.65	10.23	13.22	10.47	53.21	-547.07	257.85	240.73	17.12	15.064		
2,500.00	2,451.43	2,441.82	2,320.98	10.84	14.17	9.49	52.46	-594.01	275.81	257.87	17.94	15.371		
2,600.00	2,546.59	2,540.09	2,407.31	11.46	15.13	8.63	51.72	-640.96	293.85	275.07	18.78	15.650		
2,700.00	2,641.76	2,638.37	2,493.64	12.09	16.10	7.87	50.97	-687.90	311.93	292.32	19.61	15.904		
2,800.00	2,736.92	2,736.64	2,579.97	12.72	17.07	7.20	50.22	-734.85	330.07	309.61	20.45	16.137		
2,900.00	2,832.09	2,834.91	2,666.30	13.35	18.04	6.59	49.47	-781.79	348.24	326.94	21.30	16.350		
3,000.00	2,927.25	2,933.18	2,752.63	13.99	19.02	6.05	48.72	-828.74	366.45	344.31	22.15	16.546		
3,100.00	3,022.42	3,031.45	2,838.96	14.63	20.00	5.55	47.97	-875.68	384.69	361.69	23.00	16.726		
3,200.00	3,117.58	3,129.72	2,925.29	15.27	20.99	5.10	47.22	-922.63	402.95	379.10	23.85	16.892		
3,300.00	3,212.75	3,227.99	3,011.62	15.91	21.97	4.69	46.47	-969.57	421.24	396.53	24.71	17.046		
3,400.00	3,307.91	3,326.26	3,097.95	16.56	22.96	4.32	45.73	-1,016.52	439.54	413.97	25.57	17.189		
3,500.00	3,403.08	3,424.54	3,184.28	17.20	23.95	3.97	44.98	-1,063.46	457.86	431.43	26.43	17.321		
3,600.00	3,498.24	3,522.81	3,270.61	17.85	24.94	3.65	44.23	-1,110.41	476.20	448.90	27.30	17.444		
3,700.00	3,593.41	3,621.08	3,356.94	18.50	25.93	3.35	43.48	-1,157.35	494.55	466.39	28.17	17.559		
3,800.00	3,688.57	3,719.35	3,443.27	19.15	26.92	3.08	42.73	-1,204.30	512.91	483.88	29.03	17.666		
3,900.00	3,783.74	3,817.62	3,529.60	19.81	27.92	2.82	41.98	-1,251.24	531.28	501.38	29.90	17.767		
4,000.00	3,878.90	3,915.89	3,615.93	20.46	28.91	2.59	41.23	-1,298.19	549.67	518.89	30.78	17.861		
4,100.00	3,974.07	4,014.16	3,702.26	21.11	29.91	2.36	40.49	-1,345.13	568.06	536.41	31.65	17.949		
4,200.00	4,069.23	4,112.43	3,788.59	21.77	30.90	2.15	39.74	-1,392.08	586.45	553.93	32.52	18.032		
4,300.00	4,164.40	4,210.70	3,874.92	22.42	31.90	1.96	38.99	-1,439.02	604.86	571.46	33.40	18.111		
4,400.00	4,259.56	4,308.98	3,961.25	23.08	32.90	1.77	38.24	-1,485.97	623.27	589.00	34.27	18.185		
4,500.00	4,354.73	4,407.25	4,047.58	23.74	33.90	1.60	37.49	-1,532.91	641.69	606.53	35.15	18.255		
4,600.00	4,449.89	4,505.52	4,133.91	24.39	34.89	1.43	36.74	-1,579.86	660.11	624.08	36.03	18.321		
4,700.00	4,545.06	4,603.79	4,220.23	25.05	35.89	1.28	35.99	-1,626.80	678.54	641.63	36.91	18.383		
4,800.00	4,640.22	4,702.06	4,306.56	25.71	36.89	1.13	35.25	-1,673.75	696.97	659.18	37.79	18.443		
4,900.00	4,735.39	4,800.33	4,392.89	26.37	37.89	0.99	34.50	-1,720.69	715.41	676.73	38.67	18.499		
5,000.00	4,830.55	4,898.60	4,479.22	27.03	38.89	0.86	33.75	-1,767.64	733.85	694.29	39.56	18.553		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01E - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,925.72	4,996.87	4,565.55	27.69	39.89	0.73	33.00	-1,814.58	752.29	711.85	40.44	18.604		
5,200.00	5,020.88	5,095.15	4,651.88	28.35	40.89	0.61	32.25	-1,861.53	770.74	729.42	41.32	18.652		
5,300.00	5,116.05	5,193.42	4,738.21	29.01	41.89	0.50	31.50	-1,908.47	789.19	746.98	42.21	18.699		
5,400.00	5,211.21	5,291.69	4,824.54	29.67	42.90	0.39	30.75	-1,955.42	807.64	764.55	43.09	18.743		
5,500.00	5,306.38	5,389.96	4,910.87	30.33	43.90	0.28	30.00	-2,002.36	826.10	782.12	43.98	18.785		
5,600.00	5,401.54	5,488.23	4,997.20	30.99	44.90	0.18	29.26	-2,049.31	844.56	799.69	44.86	18.825		
5,700.00	5,496.71	5,586.50	5,083.53	31.65	45.90	-3.81	28.51	-2,096.25	863.02	817.27	45.75	18.864		
5,800.00	5,591.13	5,683.92	5,169.11	32.30	46.89	-29.77	27.76	-2,142.79	881.28	834.68	46.60	18.913		
5,900.00	5,682.22	5,777.78	5,251.56	32.92	47.85	-46.58	27.05	-2,187.63	899.48	852.01	47.46	18.951		
6,000.00	5,767.23	5,865.22	5,328.39	33.50	48.74	-56.79	26.38	-2,229.40	918.59	870.04	48.55	18.922		
6,100.00	5,843.56	5,943.60	5,397.24	34.04	49.54	-63.23	25.79	-2,266.84	940.13	890.04	50.09	18.768		
6,200.00	5,908.90	6,010.53	5,456.03	34.53	50.23	-67.11	25.28	-2,298.82	965.80	913.50	52.30	18.467		
6,300.00	5,961.25	6,063.97	5,502.98	34.99	50.77	-68.77	24.87	-2,324.35	997.01	941.80	55.21	18.059		
6,400.00	5,999.04	6,141.10	5,570.67	35.42	51.56	-70.35	27.21	-2,361.15	1,034.19	975.14	59.05	17.515		
6,500.00	6,021.11	6,326.16	5,727.30	35.83	53.34	-76.18	73.68	-2,446.34	1,074.41	1,011.50	62.91	17.079		
6,600.00	6,027.00	6,995.67	6,027.00	36.24	57.01	-90.05	605.78	-2,609.40	1,100.01	1,045.59	54.42	20.213		
6,700.00	6,027.00	7,095.67	6,027.00	36.68	57.24	-90.05	705.78	-2,609.42	1,100.01	1,044.15	55.86	19.692		
6,800.00	6,027.00	7,195.67	6,027.00	37.20	57.51	-90.05	805.78	-2,609.43	1,100.00	1,042.52	57.48	19.136		
6,900.00	6,027.00	7,295.67	6,027.00	37.80	57.82	-90.05	905.78	-2,609.45	1,100.00	1,040.72	59.27	18.558		
7,000.00	6,027.00	7,395.67	6,027.00	38.47	58.17	-90.05	1,005.78	-2,609.47	1,099.99	1,038.78	61.22	17.969		
7,100.00	6,027.00	7,495.67	6,027.00	39.21	58.55	-90.05	1,105.78	-2,609.48	1,099.99	1,036.69	63.30	17.377		
7,200.00	6,027.00	7,595.67	6,027.00	40.02	58.98	-90.05	1,205.78	-2,609.50	1,099.98	1,034.48	65.51	16.791		
7,300.00	6,027.00	7,695.67	6,027.00	40.89	59.45	-90.05	1,305.78	-2,609.52	1,099.98	1,032.15	67.83	16.216		
7,400.00	6,027.00	7,795.67	6,027.00	41.83	59.96	-90.05	1,405.78	-2,609.53	1,099.98	1,029.72	70.26	15.657		
7,500.00	6,027.00	7,895.67	6,027.00	42.83	60.51	-90.05	1,505.78	-2,609.55	1,099.97	1,027.20	72.77	15.115		
7,600.00	6,027.00	7,995.67	6,027.00	43.88	61.11	-90.05	1,605.78	-2,609.57	1,099.97	1,024.59	75.37	14.594		
7,700.00	6,027.00	8,095.67	6,027.00	44.99	61.75	-90.05	1,705.78	-2,609.58	1,099.96	1,021.92	78.05	14.094		
7,800.00	6,027.00	8,195.67	6,027.00	46.14	62.43	-90.05	1,805.78	-2,609.60	1,099.96	1,019.17	80.79	13.615		
7,900.00	6,027.00	8,295.67	6,027.00	47.33	63.15	-90.05	1,905.78	-2,609.62	1,099.95	1,016.36	83.59	13.159		
8,000.00	6,027.00	8,395.67	6,027.00	48.57	63.91	-90.05	2,005.78	-2,609.63	1,099.95	1,013.50	86.45	12.724		
8,100.00	6,027.00	8,495.67	6,027.00	49.84	64.72	-90.05	2,105.78	-2,609.65	1,099.94	1,010.59	89.35	12.310		
8,200.00	6,027.00	8,595.67	6,027.00	51.15	65.57	-90.05	2,205.78	-2,609.67	1,099.94	1,007.64	92.30	11.916		
8,300.00	6,027.00	8,695.67	6,027.00	52.48	66.45	-90.05	2,305.78	-2,609.68	1,099.94	1,004.64	95.30	11.542		
8,400.00	6,027.00	8,795.67	6,027.00	53.85	67.38	-90.05	2,405.78	-2,609.70	1,099.93	1,001.61	98.32	11.187		
8,500.00	6,027.00	8,895.67	6,027.00	55.24	68.35	-90.05	2,505.78	-2,609.72	1,099.93	998.54	101.39	10.849		
8,600.00	6,027.00	8,995.67	6,027.00	56.65	69.35	-90.05	2,605.78	-2,609.73	1,099.92	995.44	104.48	10.528		
8,700.00	6,027.00	9,095.67	6,027.00	58.08	70.38	-90.05	2,705.78	-2,609.75	1,099.92	992.32	107.60	10.222		
8,800.00	6,027.00	9,195.67	6,027.00	59.54	71.45	-90.05	2,805.78	-2,609.77	1,099.91	989.16	110.75	9.932		
8,900.00	6,027.00	9,295.67	6,027.00	61.01	72.56	-90.05	2,905.78	-2,609.78	1,099.91	985.99	113.92	9.655		
9,000.00	6,027.00	9,395.67	6,027.00	62.50	73.69	-90.05	3,005.78	-2,609.80	1,099.90	982.79	117.11	9.392		
9,100.00	6,027.00	9,495.67	6,027.00	64.01	74.86	-90.05	3,105.78	-2,609.82	1,099.90	979.58	120.32	9.141		
9,200.00	6,027.00	9,595.67	6,027.00	65.53	76.05	-90.05	3,205.78	-2,609.83	1,099.90	976.34	123.56	8.902		
9,300.00	6,027.00	9,695.67	6,027.00	67.06	77.27	-90.05	3,305.78	-2,609.85	1,099.89	973.09	126.80	8.674		
9,400.00	6,027.00	9,795.67	6,027.00	68.61	78.52	-90.05	3,405.78	-2,609.87	1,099.89	969.82	130.07	8.456		
9,500.00	6,027.00	9,895.67	6,027.00	70.17	79.79	-90.05	3,505.78	-2,609.88	1,099.88	966.54	133.34	8.248		
9,600.00	6,027.00	9,995.67	6,027.00	71.73	81.08	-90.05	3,605.78	-2,609.90	1,099.88	963.24	136.64	8.050		
9,700.00	6,027.00	10,095.67	6,027.00	73.31	82.39	-90.05	3,705.78	-2,609.92	1,099.87	959.93	139.94	7.860		
9,800.00	6,027.00	10,195.67	6,027.00	74.90	83.73	-90.05	3,805.78	-2,609.93	1,099.87	956.61	143.26	7.678		
9,900.00	6,027.00	10,295.67	6,027.00	76.50	85.08	-90.05	3,905.78	-2,609.95	1,099.86	953.28	146.58	7.503		
10,000.00	6,027.00	10,395.67	6,027.00	78.10	86.46	-90.05	4,005.78	-2,609.97	1,099.86	949.94	149.92	7.336		
10,100.00	6,027.00	10,495.67	6,027.00	79.71	87.85	-90.05	4,105.78	-2,609.98	1,099.86	946.59	153.27	7.176		
10,200.00	6,027.00	10,595.67	6,027.00	81.33	89.25	-90.05	4,205.78	-2,610.00	1,099.85	943.23	156.62	7.022		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01E - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	10,695.67	6,027.00	82.96	90.67	-90.05	4,305.78	-2,610.02	1,099.85	939.86	159.99	6.875		
10,400.00	6,027.00	10,795.67	6,027.00	84.59	92.11	-90.05	4,405.78	-2,610.03	1,099.84	936.49	163.36	6.733		
10,500.00	6,027.00	10,895.67	6,027.00	86.23	93.56	-90.05	4,505.78	-2,610.05	1,099.84	933.10	166.74	6.596		
10,600.00	6,027.00	10,995.67	6,027.00	87.87	95.03	-90.05	4,605.78	-2,610.07	1,099.83	929.71	170.12	6.465		
10,700.00	6,027.00	11,095.67	6,027.00	89.52	96.50	-90.05	4,705.78	-2,610.08	1,099.83	926.32	173.51	6.339		
10,800.00	6,027.00	11,195.67	6,027.00	91.17	97.99	-90.05	4,805.78	-2,610.10	1,099.82	922.91	176.91	6.217		
10,900.00	6,027.00	11,295.67	6,027.00	92.83	99.49	-90.05	4,905.78	-2,610.12	1,099.82	919.50	180.32	6.099		
11,000.00	6,027.00	11,395.67	6,027.00	94.49	101.00	-90.05	5,005.78	-2,610.13	1,099.82	916.09	183.73	5.986		
11,100.00	6,027.00	11,495.67	6,027.00	96.16	102.52	-90.05	5,105.78	-2,610.15	1,099.81	912.67	187.14	5.877		
11,200.00	6,027.00	11,595.67	6,027.00	97.83	104.05	-90.05	5,205.78	-2,610.17	1,099.81	909.25	190.56	5.771		
11,300.00	6,027.00	11,695.67	6,027.00	99.50	105.58	-90.05	5,305.78	-2,610.18	1,099.80	905.82	193.99	5.670		
11,400.00	6,027.00	11,795.67	6,027.00	101.18	107.13	-90.05	5,405.78	-2,610.20	1,099.80	902.38	197.41	5.571		
11,500.00	6,027.00	11,895.67	6,027.00	102.86	108.68	-90.05	5,505.78	-2,610.22	1,099.79	898.95	200.85	5.476		
11,600.00	6,027.00	11,995.67	6,027.00	104.54	110.24	-90.05	5,605.78	-2,610.23	1,099.79	895.50	204.28	5.384		
11,700.00	6,027.00	12,095.67	6,027.00	106.23	111.81	-90.05	5,705.78	-2,610.25	1,099.78	892.06	207.73	5.294		
11,800.00	6,027.00	12,195.67	6,027.00	107.92	113.39	-90.05	5,805.78	-2,610.27	1,099.78	888.61	211.17	5.208		
11,900.00	6,027.00	12,295.67	6,027.00	109.61	114.97	-90.05	5,905.78	-2,610.28	1,099.78	885.16	214.62	5.124		
12,000.00	6,027.00	12,395.67	6,027.00	111.31	116.56	-90.05	6,005.78	-2,610.30	1,099.77	881.70	218.07	5.043		
12,100.00	6,027.00	12,495.67	6,027.00	113.00	118.16	-90.05	6,105.78	-2,610.32	1,099.77	878.24	221.52	4.965		
12,200.00	6,027.00	12,595.67	6,027.00	114.71	119.76	-90.05	6,205.78	-2,610.34	1,099.76	874.78	224.98	4.888		
12,300.00	6,027.00	12,695.67	6,027.00	116.41	121.36	-90.05	6,305.78	-2,610.35	1,099.76	871.32	228.44	4.814		
12,400.00	6,027.00	12,795.67	6,027.00	118.11	122.97	-90.05	6,405.78	-2,610.37	1,099.75	867.85	231.90	4.742		
12,500.00	6,027.00	12,895.67	6,027.00	119.82	124.59	-90.05	6,505.78	-2,610.39	1,099.75	864.38	235.37	4.672		
12,600.00	6,027.00	12,995.67	6,027.00	121.53	126.21	-90.05	6,605.78	-2,610.40	1,099.74	860.91	238.84	4.605		
12,700.00	6,027.00	13,095.67	6,027.00	123.24	127.84	-90.05	6,705.78	-2,610.42	1,099.74	857.44	242.31	4.539		
12,800.00	6,027.00	13,195.67	6,027.00	124.95	129.47	-90.05	6,805.78	-2,610.44	1,099.74	853.96	245.78	4.475		
12,900.00	6,027.00	13,295.67	6,027.00	126.66	131.10	-90.05	6,905.78	-2,610.45	1,099.73	850.48	249.25	4.412		
13,000.00	6,027.00	13,395.67	6,027.00	128.38	132.74	-90.05	7,005.78	-2,610.47	1,099.73	847.00	252.73	4.351		
13,100.00	6,027.00	13,495.67	6,027.00	130.10	134.38	-90.05	7,105.78	-2,610.49	1,099.72	843.52	256.21	4.292		
13,200.00	6,027.00	13,595.67	6,027.00	131.82	136.03	-90.05	7,205.78	-2,610.50	1,099.72	840.03	259.69	4.235		
13,300.00	6,027.00	13,695.67	6,027.00	133.54	137.68	-90.05	7,305.78	-2,610.52	1,099.71	836.54	263.17	4.179		
13,400.00	6,027.00	13,795.67	6,027.00	135.26	139.33	-90.05	7,405.78	-2,610.54	1,099.71	833.06	266.65	4.124		
13,500.00	6,027.00	13,895.67	6,027.00	136.98	140.98	-90.05	7,505.78	-2,610.55	1,099.70	829.57	270.14	4.071		
13,600.00	6,027.00	13,995.67	6,027.00	138.71	142.64	-90.05	7,605.78	-2,610.57	1,099.70	826.07	273.63	4.019		
13,700.00	6,027.00	14,095.67	6,027.00	140.43	144.31	-90.05	7,705.78	-2,610.59	1,099.70	822.58	277.11	3.968		
13,800.00	6,027.00	14,195.67	6,027.00	142.16	145.97	-90.05	7,805.78	-2,610.60	1,099.69	819.09	280.61	3.919		
13,900.00	6,027.00	14,295.67	6,027.00	143.89	147.64	-90.05	7,905.78	-2,610.62	1,099.69	815.59	284.10	3.871		
14,000.00	6,027.00	14,395.67	6,027.00	145.62	149.31	-90.05	8,005.78	-2,610.64	1,099.68	812.09	287.59	3.824		
14,100.00	6,027.00	14,495.67	6,027.00	147.35	150.98	-90.05	8,105.78	-2,610.65	1,099.68	808.59	291.08	3.778		
14,200.00	6,027.00	14,595.67	6,027.00	149.08	152.66	-90.05	8,205.78	-2,610.67	1,099.67	805.09	294.58	3.733		
14,300.00	6,027.00	14,695.67	6,027.00	150.81	154.33	-90.05	8,305.78	-2,610.69	1,099.67	801.59	298.08	3.689		
14,400.00	6,027.00	14,795.67	6,027.00	152.54	156.01	-90.05	8,405.78	-2,610.70	1,099.67	798.09	301.58	3.646		
14,500.00	6,027.00	14,895.67	6,027.00	154.28	157.70	-90.05	8,505.78	-2,610.72	1,099.66	794.58	305.08	3.605		
14,600.00	6,027.00	14,995.67	6,027.00	156.01	159.38	-90.05	8,605.78	-2,610.74	1,099.66	791.08	308.58	3.564		
14,700.00	6,027.00	15,095.67	6,027.00	157.75	161.07	-90.05	8,705.78	-2,610.75	1,099.65	787.57	312.08	3.524		
14,800.00	6,027.00	15,195.67	6,027.00	159.49	162.76	-90.05	8,805.78	-2,610.77	1,099.65	784.07	315.58	3.485		
14,900.00	6,027.00	15,295.67	6,027.00	161.22	164.45	-90.05	8,905.78	-2,610.79	1,099.64	780.56	319.08	3.446		
15,000.00	6,027.00	15,395.67	6,027.00	162.96	166.14	-90.05	9,005.78	-2,610.80	1,099.64	777.05	322.59	3.409		
15,100.00	6,027.00	15,495.67	6,027.00	164.70	167.83	-90.05	9,105.78	-2,610.82	1,099.63	773.54	326.10	3.372		
15,200.00	6,027.00	15,595.67	6,027.00	166.44	169.53	-90.05	9,205.78	-2,610.84	1,099.63	770.03	329.60	3.336		
15,300.00	6,027.00	15,695.67	6,027.00	168.18	171.23	-90.05	9,305.78	-2,610.85	1,099.63	766.52	333.11	3.301		
15,400.00	6,027.00	15,795.67	6,027.00	169.93	172.93	-90.05	9,405.78	-2,610.87	1,099.62	763.00	336.62	3.267		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01E - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	15,895.67	6,027.00	171.67	174.63	-90.05	9,505.78	-2,610.89	1,099.62	759.49	340.13	3.233	
15,600.00	6,027.00	15,995.67	6,027.00	173.41	176.33	-90.05	9,605.78	-2,610.90	1,099.61	755.97	343.64	3.200	
15,700.00	6,027.00	16,095.67	6,027.00	175.15	178.03	-90.05	9,705.78	-2,610.92	1,099.61	752.46	347.15	3.168	
15,800.00	6,027.00	16,195.67	6,027.00	176.90	179.74	-90.05	9,805.78	-2,610.94	1,099.60	748.94	350.66	3.136	
15,900.00	6,027.00	16,295.67	6,027.00	178.64	181.44	-90.05	9,905.78	-2,610.95	1,099.60	745.43	354.17	3.105	
16,000.00	6,027.00	16,395.67	6,027.00	180.39	183.15	-90.05	10,005.78	-2,610.97	1,099.59	741.91	357.69	3.074	
16,100.00	6,027.00	16,495.67	6,027.00	182.13	184.86	-90.05	10,105.78	-2,610.99	1,099.59	738.39	361.20	3.044	
16,200.00	6,027.00	16,595.67	6,027.00	183.88	186.57	-90.05	10,205.78	-2,611.00	1,099.59	734.87	364.71	3.015	
16,300.00	6,027.00	16,695.67	6,027.00	185.63	188.29	-90.05	10,305.78	-2,611.02	1,099.58	731.35	368.23	2.986	
16,400.00	6,027.00	16,795.67	6,027.00	187.38	190.00	-90.05	10,405.78	-2,611.04	1,099.58	727.83	371.74	2.958	
16,500.00	6,027.00	16,895.67	6,027.00	189.12	191.71	-90.05	10,505.78	-2,611.05	1,099.57	724.31	375.26	2.930	
16,600.00	6,027.00	16,995.67	6,027.00	190.87	193.43	-90.05	10,605.78	-2,611.07	1,099.57	720.79	378.78	2.903	
16,700.00	6,027.00	17,095.67	6,027.00	192.62	195.14	-90.05	10,705.78	-2,611.09	1,099.56	717.27	382.30	2.876	
16,795.97	6,027.00	17,191.63	6,027.00	194.30	196.79	-90.05	10,801.75	-2,611.10	1,099.56	713.89	385.67	2.851 SF	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01W - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	1.15	138.44	2.78	138.47					
100.00	100.00	100.00	100.00	0.27	0.27	1.15	138.44	2.78	138.47	137.93	0.54	257.512		
200.00	200.00	200.21	200.19	0.63	0.62	0.43	138.38	1.03	138.39	137.14	1.25	110.727		
300.00	300.00	300.17	300.01	0.99	0.99	-1.74	138.22	-4.20	138.28	136.31	1.97	70.263		
304.45	304.45	304.61	304.44	1.00	1.00	-1.87	138.21	-4.52	138.28	136.28	2.00	69.116 CC		
400.00	400.00	399.65	399.11	1.34	1.36	-5.33	137.94	-12.86	138.55	135.84	2.70	51.292 ES		
500.00	500.00	498.41	497.13	1.70	1.75	-10.24	137.57	-24.86	139.82	136.37	3.45	40.504		
600.00	600.00	596.23	593.75	2.06	2.16	-16.29	137.09	-40.06	142.96	138.73	4.22	33.863		
700.00	700.00	692.89	688.67	2.42	2.61	-23.13	136.51	-58.32	148.88	143.87	5.00	29.751		
800.00	800.00	788.20	781.60	2.78	3.08	-30.32	135.84	-79.44	158.44	152.65	5.79	27.378		
900.00	900.00	881.98	872.31	3.14	3.58	-37.38	135.09	-103.23	172.26	165.70	6.55	26.279		
1,000.00	999.98	974.56	961.04	3.49	4.12	45.37	134.26	-129.61	189.43	182.14	7.29	25.991		
1,100.00	1,099.84	1,066.39	1,048.16	3.83	4.69	39.98	133.34	-158.59	208.36	200.36	8.00	26.037		
1,200.00	1,199.45	1,157.48	1,133.63	4.19	5.31	35.51	132.35	-190.09	228.49	219.79	8.71	26.245		
1,300.00	1,298.70	1,247.88	1,217.41	4.55	5.98	31.78	131.28	-224.01	249.43	240.03	9.40	26.525		
1,400.00	1,397.47	1,337.60	1,299.46	4.94	6.69	28.63	130.13	-260.28	270.88	260.78	10.10	26.828		
1,500.00	1,495.62	1,426.67	1,379.76	5.34	7.44	25.96	128.92	-298.80	292.62	281.83	10.79	27.124		
1,600.00	1,593.06	1,515.12	1,458.27	5.78	8.25	23.67	127.63	-339.51	314.49	303.01	11.48	27.398		
1,700.00	1,689.64	1,600.00	1,532.39	6.24	9.07	21.74	126.32	-380.83	336.38	324.25	12.13	27.742		
1,800.00	1,785.27	1,690.23	1,609.82	6.75	10.01	19.96	124.86	-427.15	358.14	345.28	12.86	27.848		
1,900.00	1,880.44	1,776.50	1,682.44	7.30	10.96	18.50	123.39	-473.69	381.53	367.97	13.55	28.156		
2,000.00	1,975.60	1,861.34	1,752.45	7.86	11.96	17.09	121.88	-521.57	407.90	393.68	14.22	28.687		
2,100.00	2,070.77	1,945.95	1,820.85	8.43	12.99	15.73	120.31	-571.35	437.20	422.31	14.89	29.371		
2,200.00	2,165.93	2,040.59	1,896.71	9.02	14.19	14.35	118.52	-627.89	467.79	452.07	15.72	29.749		
2,300.00	2,261.10	2,135.22	1,972.57	9.62	15.40	13.15	116.74	-684.44	498.61	482.04	16.57	30.096		
2,400.00	2,356.26	2,229.85	2,048.44	10.23	16.62	12.08	114.95	-740.98	529.61	512.19	17.41	30.413		
2,500.00	2,451.43	2,324.49	2,124.30	10.84	17.84	11.13	113.17	-797.52	560.75	542.49	18.26	30.703		
2,600.00	2,546.59	2,419.12	2,200.16	11.46	19.07	10.27	111.38	-854.07	592.02	572.90	19.12	30.968		
2,700.00	2,641.76	2,513.75	2,276.02	12.09	20.31	9.51	109.60	-910.61	623.40	603.42	19.97	31.210		
2,800.00	2,736.92	2,608.39	2,351.89	12.72	21.55	8.81	107.81	-967.16	654.87	634.03	20.84	31.431		
2,900.00	2,832.09	2,703.02	2,427.75	13.35	22.79	8.18	106.02	-1,023.70	686.41	664.72	21.70	31.633		
3,000.00	2,927.25	2,797.66	2,503.61	13.99	24.03	7.61	104.24	-1,080.24	718.03	695.46	22.57	31.819		
3,100.00	3,022.42	2,892.29	2,579.47	14.63	25.28	7.08	102.45	-1,136.79	749.71	726.27	23.44	31.989		
3,200.00	3,117.58	2,986.92	2,655.34	15.27	26.53	6.60	100.67	-1,193.33	781.44	757.13	24.31	32.145		
3,300.00	3,212.75	3,081.56	2,731.20	15.91	27.78	6.15	98.88	-1,249.88	813.21	788.03	25.19	32.289		
3,400.00	3,307.91	3,176.19	2,807.06	16.56	29.03	5.74	97.10	-1,306.42	845.03	818.96	26.06	32.422		
3,500.00	3,403.08	3,270.82	2,882.93	17.20	30.28	5.36	95.31	-1,362.96	876.88	849.94	26.94	32.544		
3,600.00	3,498.24	3,365.46	2,958.79	17.85	31.53	5.00	93.53	-1,419.51	908.77	880.94	27.83	32.657		
3,700.00	3,593.41	3,460.09	3,034.65	18.50	32.79	4.67	91.74	-1,476.05	940.68	911.97	28.71	32.762		
3,800.00	3,688.57	3,554.73	3,110.51	19.15	34.04	4.36	89.95	-1,532.60	972.62	943.02	29.60	32.859		
3,900.00	3,783.74	3,649.36	3,186.38	19.81	35.30	4.07	88.17	-1,589.14	1,004.59	974.10	30.49	32.950		
4,000.00	3,878.90	3,743.99	3,262.24	20.46	36.55	3.80	86.38	-1,645.68	1,036.58	1,005.20	31.38	33.034		
4,100.00	3,974.07	3,838.63	3,338.10	21.11	37.81	3.54	84.60	-1,702.23	1,068.58	1,036.31	32.27	33.112		
4,200.00	4,069.23	3,933.26	3,413.96	21.77	39.07	3.30	82.81	-1,758.77	1,100.61	1,067.45	33.17	33.185		
4,300.00	4,164.40	4,027.89	3,489.83	22.42	40.33	3.07	81.03	-1,815.32	1,132.65	1,098.59	34.06	33.253		
4,400.00	4,259.56	4,122.53	3,565.69	23.08	41.59	2.85	79.24	-1,871.86	1,164.71	1,129.75	34.96	33.317		
4,500.00	4,354.73	4,217.16	3,641.55	23.74	42.85	2.65	77.46	-1,928.40	1,196.78	1,160.93	35.86	33.377		
4,600.00	4,449.89	4,311.79	3,717.41	24.39	44.11	2.46	75.67	-1,984.95	1,228.87	1,192.11	36.76	33.433		
4,700.00	4,545.06	4,406.43	3,793.28	25.05	45.37	2.27	73.89	-2,041.49	1,260.96	1,223.31	37.66	33.486		
4,800.00	4,640.22	4,501.06	3,869.14	25.71	46.63	2.10	72.10	-2,098.04	1,293.07	1,254.51	38.56	33.535		
4,900.00	4,735.39	4,595.70	3,945.00	26.37	47.89	1.93	70.31	-2,154.58	1,325.19	1,285.73	39.46	33.582		
5,000.00	4,830.55	4,690.33	4,020.86	27.03	49.15	1.77	68.53	-2,211.12	1,357.32	1,316.95	40.37	33.626		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01W - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,925.72	4,784.96	4,096.73	27.69	50.41	1.62	66.74	-2,267.67	1,389.45	1,348.18	41.27	33.667		
5,200.00	5,020.88	4,879.60	4,172.59	28.35	51.67	1.48	64.96	-2,324.21	1,421.60	1,379.42	42.18	33.706		
5,300.00	5,116.05	4,974.23	4,248.45	29.01	52.93	1.34	63.17	-2,380.76	1,453.75	1,410.67	43.08	33.743		
5,400.00	5,211.21	5,068.86	4,324.31	29.67	54.19	1.21	61.39	-2,437.30	1,485.91	1,441.92	43.99	33.778		
5,500.00	5,306.38	5,163.50	4,400.18	30.33	55.46	1.08	59.60	-2,493.84	1,518.07	1,473.18	44.90	33.811		
5,600.00	5,401.54	5,258.13	4,476.04	30.99	56.72	0.96	57.82	-2,550.39	1,550.25	1,504.44	45.81	33.842		
5,700.00	5,496.71	5,352.76	4,551.90	31.65	57.98	-2.84	56.03	-2,606.93	1,582.42	1,535.70	46.72	33.873		
5,800.00	5,591.13	5,446.45	4,627.00	32.30	59.23	-27.02	54.26	-2,662.91	1,614.14	1,566.57	47.57	33.931		
5,900.00	5,682.22	5,536.51	4,699.20	32.92	60.43	-41.74	52.56	-2,716.72	1,644.81	1,596.44	48.37	34.002		
6,000.00	5,767.23	5,620.21	4,766.30	33.50	61.55	-49.74	50.98	-2,766.73	1,674.38	1,625.16	49.22	34.018		
6,100.00	5,843.56	5,695.00	4,826.26	34.04	62.55	-54.14	49.57	-2,811.42	1,703.14	1,652.90	50.24	33.898		
6,200.00	5,908.90	5,758.62	4,877.25	34.53	63.40	-56.42	48.37	-2,849.43	1,731.57	1,680.00	51.58	33.574		
6,300.00	5,961.25	5,809.13	4,917.74	34.99	64.07	-57.20	47.42	-2,879.61	1,760.15	1,706.84	53.31	33.018		
6,400.00	5,999.04	5,844.99	4,946.49	35.42	64.55	-56.73	46.74	-2,901.04	1,789.19	1,733.72	55.47	32.257		
6,500.00	6,021.11	5,865.12	4,962.63	35.83	64.82	-55.13	46.36	-2,913.07	1,818.69	1,760.70	57.98	31.365		
6,600.00	6,027.00	5,869.11	4,965.82	36.24	64.87	-52.96	46.29	-2,915.45	1,848.33	1,787.60	60.73	30.435		
6,700.00	6,027.00	5,867.23	4,964.32	36.68	64.85	-52.90	46.32	-2,914.33	1,881.01	1,817.38	63.64	29.559		
6,800.00	6,027.00	5,865.36	4,962.82	37.20	64.82	-52.84	46.36	-2,913.21	1,918.35	1,851.72	66.63	28.789		
6,900.00	6,027.00	5,863.49	4,961.32	37.80	64.80	-52.78	46.39	-2,912.09	1,960.09	1,890.44	69.64	28.144		
7,000.00	6,027.00	5,861.61	4,959.81	38.47	64.77	-52.72	46.43	-2,910.97	2,005.94	1,933.33	72.61	27.627		
7,100.00	6,027.00	5,859.74	4,958.31	39.21	64.75	-52.66	46.46	-2,909.85	2,055.64	1,980.16	75.48	27.235		
7,200.00	6,027.00	5,857.86	4,956.81	40.02	64.72	-52.59	46.50	-2,908.73	2,108.90	2,030.68	78.23	26.959		
7,300.00	6,027.00	5,855.99	4,955.31	40.89	64.70	-52.53	46.54	-2,907.61	2,165.48	2,084.65	80.83	26.789		
7,400.00	6,027.00	8,319.85	6,027.00	41.83	83.86	-90.00	1,405.10	-3,706.94	2,197.38	2,125.11	72.27	30.404		
7,500.00	6,027.00	8,419.85	6,027.00	42.83	84.18	-90.00	1,505.10	-3,706.98	2,197.40	2,122.72	74.68	29.425		
7,600.00	6,027.00	8,519.85	6,027.00	43.88	84.53	-90.00	1,605.10	-3,707.02	2,197.42	2,120.25	77.17	28.474		
7,700.00	6,027.00	8,619.85	6,027.00	44.99	84.90	-90.00	1,705.10	-3,707.06	2,197.44	2,117.69	79.74	27.556		
7,800.00	6,027.00	8,719.85	6,027.00	46.14	85.30	-90.00	1,805.10	-3,707.10	2,197.46	2,115.07	82.39	26.672		
7,900.00	6,027.00	8,819.85	6,027.00	47.33	85.72	-90.00	1,905.10	-3,707.14	2,197.48	2,112.38	85.10	25.823		
8,000.00	6,027.00	8,919.85	6,027.00	48.57	86.17	-90.00	2,005.10	-3,707.18	2,197.49	2,109.63	87.87	25.009		
8,100.00	6,027.00	9,019.85	6,027.00	49.84	86.65	-90.00	2,105.10	-3,707.22	2,197.51	2,106.82	90.69	24.231		
8,200.00	6,027.00	9,119.85	6,027.00	51.15	87.16	-90.00	2,205.10	-3,707.26	2,197.53	2,103.97	93.56	23.488		
8,300.00	6,027.00	9,219.85	6,027.00	52.48	87.69	-90.00	2,305.10	-3,707.30	2,197.55	2,101.07	96.48	22.778		
8,400.00	6,027.00	9,319.85	6,027.00	53.85	88.26	-90.00	2,405.10	-3,707.34	2,197.57	2,098.13	99.43	22.101		
8,500.00	6,027.00	9,419.85	6,027.00	55.24	88.85	-90.00	2,505.10	-3,707.38	2,197.59	2,095.16	102.43	21.455		
8,600.00	6,027.00	9,519.85	6,027.00	56.65	89.47	-90.00	2,605.10	-3,707.42	2,197.61	2,092.15	105.46	20.839		
8,700.00	6,027.00	9,619.85	6,027.00	58.08	90.12	-90.00	2,705.10	-3,707.46	2,197.62	2,089.11	108.52	20.252		
8,800.00	6,027.00	9,719.85	6,027.00	59.54	90.80	-90.00	2,805.10	-3,707.50	2,197.64	2,086.04	111.60	19.691		
8,900.00	6,027.00	9,819.85	6,027.00	61.01	91.51	-90.00	2,905.10	-3,707.54	2,197.66	2,082.94	114.72	19.157		
9,000.00	6,027.00	9,919.85	6,027.00	62.50	92.25	-90.00	3,005.10	-3,707.57	2,197.68	2,079.82	117.86	18.647		
9,100.00	6,027.00	10,019.85	6,027.00	64.01	93.02	-90.00	3,105.10	-3,707.61	2,197.70	2,076.68	121.02	18.160		
9,200.00	6,027.00	10,119.85	6,027.00	65.53	93.81	-90.00	3,205.10	-3,707.65	2,197.72	2,073.51	124.20	17.694		
9,300.00	6,027.00	10,219.85	6,027.00	67.06	94.64	-90.00	3,305.10	-3,707.69	2,197.73	2,070.33	127.41	17.250		
9,400.00	6,027.00	10,319.85	6,027.00	68.61	95.49	-90.00	3,405.10	-3,707.73	2,197.75	2,067.13	130.63	16.825		
9,500.00	6,027.00	10,419.85	6,027.00	70.17	96.38	-90.00	3,505.10	-3,707.77	2,197.77	2,063.91	133.86	16.418		
9,600.00	6,027.00	10,519.85	6,027.00	71.73	97.29	-90.00	3,605.10	-3,707.81	2,197.79	2,060.68	137.11	16.029		
9,700.00	6,027.00	10,619.85	6,027.00	73.31	98.23	-90.00	3,705.10	-3,707.85	2,197.81	2,057.43	140.38	15.656		
9,800.00	6,027.00	10,719.85	6,027.00	74.90	99.19	-90.00	3,805.10	-3,707.89	2,197.83	2,054.17	143.66	15.299		
9,900.00	6,027.00	10,819.85	6,027.00	76.50	100.18	-90.00	3,905.10	-3,707.93	2,197.84	2,050.89	146.95	14.956		
10,000.00	6,027.00	10,919.85	6,027.00	78.10	101.20	-90.00	4,005.10	-3,707.97	2,197.86	2,047.61	150.26	14.627		
10,100.00	6,027.00	11,019.85	6,027.00	79.71	102.24	-90.00	4,105.10	-3,708.01	2,197.88	2,044.31	153.57	14.312		
10,200.00	6,027.00	11,119.85	6,027.00	81.33	103.31	-90.00	4,205.10	-3,708.05	2,197.90	2,041.00	156.90	14.009		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01W - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	11,219.85	6,027.00	82.96	104.40	-90.00	4,305.10	-3,708.09	2,197.92	2,037.69	160.23	13.717		
10,400.00	6,027.00	11,319.85	6,027.00	84.59	105.51	-90.00	4,405.10	-3,708.13	2,197.94	2,034.36	163.57	13.437		
10,500.00	6,027.00	11,419.85	6,027.00	86.23	106.65	-90.00	4,505.10	-3,708.17	2,197.96	2,031.03	166.93	13.167		
10,600.00	6,027.00	11,519.85	6,027.00	87.87	107.81	-90.00	4,605.10	-3,708.21	2,197.97	2,027.69	170.28	12.908		
10,700.00	6,027.00	11,619.85	6,027.00	89.52	108.98	-90.00	4,705.10	-3,708.25	2,197.99	2,024.34	173.65	12.657		
10,800.00	6,027.00	11,719.85	6,027.00	91.17	110.18	-90.00	4,805.10	-3,708.29	2,198.01	2,020.98	177.03	12.416		
10,900.00	6,027.00	11,819.85	6,027.00	92.83	111.40	-90.00	4,905.10	-3,708.33	2,198.03	2,017.62	180.41	12.184		
11,000.00	6,027.00	11,919.85	6,027.00	94.49	112.64	-90.00	5,005.10	-3,708.37	2,198.05	2,014.25	183.80	11.959		
11,100.00	6,027.00	12,019.85	6,027.00	96.16	113.90	-90.00	5,105.10	-3,708.41	2,198.07	2,010.88	187.19	11.742		
11,200.00	6,027.00	12,119.85	6,027.00	97.83	115.17	-90.00	5,205.10	-3,708.45	2,198.08	2,007.50	190.59	11.533		
11,300.00	6,027.00	12,219.85	6,027.00	99.50	116.46	-90.00	5,305.10	-3,708.49	2,198.10	2,004.11	193.99	11.331		
11,400.00	6,027.00	12,319.85	6,027.00	101.18	117.77	-90.00	5,405.10	-3,708.52	2,198.12	2,000.72	197.40	11.135		
11,500.00	6,027.00	12,419.85	6,027.00	102.86	119.09	-90.00	5,505.10	-3,708.56	2,198.14	1,997.32	200.82	10.946		
11,600.00	6,027.00	12,519.85	6,027.00	104.54	120.43	-90.00	5,605.10	-3,708.60	2,198.16	1,993.92	204.24	10.763		
11,700.00	6,027.00	12,619.85	6,027.00	106.23	121.78	-90.00	5,705.10	-3,708.64	2,198.18	1,990.52	207.66	10.585		
11,800.00	6,027.00	12,719.85	6,027.00	107.92	123.15	-90.00	5,805.10	-3,708.68	2,198.20	1,987.11	211.09	10.414		
11,900.00	6,027.00	12,819.85	6,027.00	109.61	124.53	-90.00	5,905.10	-3,708.72	2,198.21	1,983.70	214.52	10.247		
12,000.00	6,027.00	12,919.85	6,027.00	111.31	125.92	-90.00	6,005.10	-3,708.76	2,198.23	1,980.28	217.95	10.086		
12,100.00	6,027.00	13,019.85	6,027.00	113.00	127.32	-90.00	6,105.10	-3,708.80	2,198.25	1,976.86	221.39	9.929		
12,200.00	6,027.00	13,119.85	6,027.00	114.71	128.74	-90.00	6,205.10	-3,708.84	2,198.27	1,973.43	224.83	9.777		
12,300.00	6,027.00	13,219.85	6,027.00	116.41	130.16	-90.00	6,305.10	-3,708.88	2,198.29	1,970.01	228.28	9.630		
12,400.00	6,027.00	13,319.85	6,027.00	118.11	131.60	-90.00	6,405.10	-3,708.92	2,198.31	1,966.58	231.73	9.487		
12,500.00	6,027.00	13,419.85	6,027.00	119.82	133.05	-90.00	6,505.10	-3,708.96	2,198.32	1,963.14	235.18	9.347		
12,600.00	6,027.00	13,519.85	6,027.00	121.53	134.51	-90.00	6,605.10	-3,709.00	2,198.34	1,959.71	238.64	9.212		
12,700.00	6,027.00	13,619.85	6,027.00	123.24	135.98	-90.00	6,705.10	-3,709.04	2,198.36	1,956.27	242.09	9.081		
12,800.00	6,027.00	13,719.85	6,027.00	124.95	137.45	-90.00	6,805.10	-3,709.08	2,198.38	1,952.83	245.55	8.953		
12,900.00	6,027.00	13,819.85	6,027.00	126.66	138.94	-90.00	6,905.10	-3,709.12	2,198.40	1,949.38	249.01	8.828		
13,000.00	6,027.00	13,919.85	6,027.00	128.38	140.43	-90.00	7,005.10	-3,709.16	2,198.42	1,945.94	252.48	8.707		
13,100.00	6,027.00	14,019.85	6,027.00	130.10	141.93	-90.00	7,105.10	-3,709.20	2,198.43	1,942.49	255.95	8.589		
13,200.00	6,027.00	14,119.85	6,027.00	131.82	143.44	-90.00	7,205.10	-3,709.24	2,198.45	1,939.04	259.42	8.475		
13,300.00	6,027.00	14,219.85	6,027.00	133.54	144.96	-90.00	7,305.10	-3,709.28	2,198.47	1,935.58	262.89	8.363		
13,400.00	6,027.00	14,319.85	6,027.00	135.26	146.49	-90.00	7,405.10	-3,709.32	2,198.49	1,932.13	266.36	8.254		
13,500.00	6,027.00	14,419.85	6,027.00	136.98	148.02	-90.00	7,505.10	-3,709.36	2,198.51	1,928.67	269.84	8.148		
13,600.00	6,027.00	14,519.85	6,027.00	138.71	149.55	-90.00	7,605.10	-3,709.40	2,198.53	1,925.21	273.31	8.044		
13,700.00	6,027.00	14,619.85	6,027.00	140.43	151.10	-90.00	7,705.10	-3,709.44	2,198.55	1,921.75	276.79	7.943		
13,800.00	6,027.00	14,719.85	6,027.00	142.16	152.65	-90.00	7,805.10	-3,709.48	2,198.56	1,918.29	280.27	7.844		
13,900.00	6,027.00	14,819.85	6,027.00	143.89	154.21	-90.00	7,905.10	-3,709.51	2,198.58	1,914.83	283.76	7.748		
14,000.00	6,027.00	14,919.85	6,027.00	145.62	155.77	-90.00	8,005.10	-3,709.55	2,198.60	1,911.36	287.24	7.654		
14,100.00	6,027.00	15,019.85	6,027.00	147.35	157.34	-90.00	8,105.10	-3,709.59	2,198.62	1,907.89	290.73	7.563		
14,200.00	6,027.00	15,119.85	6,027.00	149.08	158.91	-90.00	8,205.10	-3,709.63	2,198.64	1,904.42	294.21	7.473		
14,300.00	6,027.00	15,219.85	6,027.00	150.81	160.49	-90.00	8,305.10	-3,709.67	2,198.66	1,900.95	297.70	7.385		
14,400.00	6,027.00	15,319.85	6,027.00	152.54	162.07	-90.00	8,405.10	-3,709.71	2,198.67	1,897.48	301.19	7.300		
14,500.00	6,027.00	15,419.85	6,027.00	154.28	163.66	-90.00	8,505.10	-3,709.75	2,198.69	1,894.01	304.68	7.216		
14,600.00	6,027.00	15,519.85	6,027.00	156.01	165.25	-90.00	8,605.10	-3,709.79	2,198.71	1,890.53	308.18	7.135		
14,700.00	6,027.00	15,619.85	6,027.00	157.75	166.85	-90.00	8,705.10	-3,709.83	2,198.73	1,887.06	311.67	7.055		
14,800.00	6,027.00	15,719.85	6,027.00	159.49	168.45	-90.00	8,805.10	-3,709.87	2,198.75	1,883.58	315.17	6.976		
14,900.00	6,027.00	15,819.85	6,027.00	161.22	170.05	-90.00	8,905.10	-3,709.91	2,198.77	1,880.10	318.66	6.900		
15,000.00	6,027.00	15,919.85	6,027.00	162.96	171.66	-90.00	9,005.10	-3,709.95	2,198.79	1,876.62	322.16	6.825		
15,100.00	6,027.00	16,019.85	6,027.00	164.70	173.28	-90.00	9,105.10	-3,709.99	2,198.80	1,873.14	325.66	6.752		
15,200.00	6,027.00	16,119.85	6,027.00	166.44	174.89	-90.00	9,205.10	-3,710.03	2,198.82	1,869.66	329.16	6.680		
15,300.00	6,027.00	16,219.85	6,027.00	168.18	176.51	-90.00	9,305.10	-3,710.07	2,198.84	1,866.18	332.66	6.610		
15,400.00	6,027.00	16,319.85	6,027.00	169.93	178.14	-90.00	9,405.10	-3,710.11	2,198.86	1,862.70	336.16	6.541		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 16-T5N-R61W - PH FENRIR F16 08N-20-01W - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	16,419.85	6,027.00	171.67	179.76	-90.00	9,505.10	-3,710.15	2,198.88	1,859.21	339.66	6.474	
15,600.00	6,027.00	16,519.85	6,027.00	173.41	181.39	-90.00	9,605.10	-3,710.19	2,198.90	1,855.73	343.17	6.408	
15,700.00	6,027.00	16,619.85	6,027.00	175.15	183.03	-90.00	9,705.10	-3,710.23	2,198.91	1,852.24	346.67	6.343	
15,800.00	6,027.00	16,719.85	6,027.00	176.90	184.66	-90.00	9,805.10	-3,710.27	2,198.93	1,848.75	350.18	6.279	
15,900.00	6,027.00	16,819.85	6,027.00	178.64	186.30	-90.00	9,905.10	-3,710.31	2,198.95	1,845.27	353.69	6.217	
16,000.00	6,027.00	16,919.85	6,027.00	180.39	187.95	-90.00	10,005.10	-3,710.35	2,198.97	1,841.78	357.19	6.156	
16,100.00	6,027.00	17,019.85	6,027.00	182.13	189.59	-90.00	10,105.10	-3,710.39	2,198.99	1,838.29	360.70	6.096	
16,200.00	6,027.00	17,119.85	6,027.00	183.88	191.24	-90.00	10,205.10	-3,710.43	2,199.01	1,834.80	364.21	6.038	
16,300.00	6,027.00	17,219.85	6,027.00	185.63	192.89	-90.00	10,305.10	-3,710.46	2,199.02	1,831.30	367.72	5.980	
16,400.00	6,027.00	17,319.85	6,027.00	187.38	194.54	-90.00	10,405.10	-3,710.50	2,199.04	1,827.81	371.23	5.924	
16,500.00	6,027.00	17,419.85	6,027.00	189.12	196.20	-90.00	10,505.10	-3,710.54	2,199.06	1,824.32	374.74	5.868	
16,600.00	6,027.00	17,519.85	6,027.00	190.87	197.86	-90.00	10,605.10	-3,710.58	2,199.08	1,820.83	378.25	5.814	
16,700.00	6,027.00	17,619.85	6,027.00	192.62	199.52	-90.00	10,705.10	-3,710.62	2,199.10	1,817.33	381.77	5.760	
16,795.97	6,027.00	17,715.82	6,027.00	194.30	201.11	-90.00	10,801.07	-3,710.66	2,199.12	1,813.98	385.14	5.710 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-02 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.86	0.00	21.86					
100.00	100.00	100.00	100.00	0.27	0.27	0.00	21.86	0.00	21.86	21.32	0.54	40.652		
200.00	200.00	200.00	200.00	0.63	0.63	0.00	21.86	0.00	21.86	20.60	1.25	17.422		
300.00	300.00	300.00	300.00	0.99	0.99	0.00	21.86	0.00	21.86	19.89	1.97	11.087		
400.00	400.00	400.00	400.00	1.34	1.34	0.00	21.86	0.00	21.86	19.17	2.69	8.130		
500.00	500.00	500.00	500.00	1.70	1.70	0.00	21.86	0.00	21.86	18.45	3.41	6.419		
600.00	600.00	600.00	600.00	2.06	2.06	0.00	21.86	0.00	21.86	17.74	4.12	5.302		
700.00	700.00	700.00	700.00	2.42	2.42	0.00	21.86	0.00	21.86	17.02	4.84	4.517		
707.36	707.36	707.36	707.36	2.45	2.45	-0.02	21.86	-0.01	21.86	16.97	4.89	4.469 CC		
800.00	800.00	799.96	799.94	2.78	2.77	-4.56	21.86	-1.74	21.93	16.38	5.55	3.952 ES		
900.00	900.00	899.68	899.52	3.14	3.12	-17.65	21.86	-6.96	22.94	16.69	6.25	3.669		
1,000.00	999.98	999.07	998.53	3.49	3.47	56.78	21.85	-15.60	25.89	18.95	6.95	3.727		
1,100.00	1,099.84	1,098.23	1,096.95	3.83	3.84	45.54	21.85	-27.63	30.14	22.51	7.63	3.948		
1,200.00	1,199.45	1,197.15	1,194.66	4.19	4.22	37.27	21.84	-43.03	35.19	26.88	8.32	4.232		
1,300.00	1,298.70	1,295.84	1,291.56	4.55	4.63	31.14	21.83	-61.74	40.73	31.73	8.99	4.529		
1,400.00	1,397.47	1,394.31	1,387.53	4.94	5.07	26.50	21.82	-83.72	46.55	36.88	9.67	4.815		
1,500.00	1,495.62	1,492.54	1,482.47	5.34	5.54	22.88	21.81	-108.93	52.54	42.20	10.34	5.081		
1,600.00	1,593.06	1,590.56	1,576.28	5.78	6.05	20.00	21.80	-137.31	58.62	47.61	11.01	5.324		
1,700.00	1,689.64	1,688.35	1,668.86	6.24	6.61	17.65	21.79	-168.81	64.74	53.06	11.68	5.542		
1,800.00	1,785.27	1,785.93	1,760.11	6.75	7.22	15.69	21.77	-203.37	70.86	58.51	12.35	5.738		
1,900.00	1,880.44	1,883.34	1,849.98	7.30	7.88	13.73	21.75	-240.93	78.82	65.79	13.02	6.053		
2,000.00	1,975.60	1,982.86	1,941.24	7.86	8.59	11.88	21.74	-280.63	88.24	74.45	13.80	6.396		
2,100.00	2,070.77	2,082.38	2,032.50	8.43	9.33	10.40	21.72	-320.32	97.74	83.16	14.58	6.702		
2,200.00	2,165.93	2,181.90	2,123.76	9.02	10.09	9.17	21.70	-360.01	107.30	91.92	15.38	6.977		
2,300.00	2,261.10	2,281.42	2,215.02	9.62	10.85	8.15	21.69	-399.71	116.89	100.71	16.18	7.225		
2,400.00	2,356.26	2,380.94	2,306.28	10.23	11.63	7.28	21.67	-439.40	126.52	109.53	16.99	7.448		
2,500.00	2,451.43	2,480.46	2,397.54	10.84	12.42	6.54	21.65	-479.10	136.17	118.37	17.80	7.649		
2,600.00	2,546.59	2,579.97	2,488.80	11.46	13.21	5.89	21.63	-518.79	145.84	127.22	18.62	7.832		
2,700.00	2,641.76	2,679.49	2,580.06	12.09	14.01	5.32	21.62	-558.48	155.53	136.08	19.44	7.999		
2,800.00	2,736.92	2,779.01	2,671.32	12.72	14.81	4.82	21.60	-598.18	165.23	144.96	20.27	8.151		
2,900.00	2,832.09	2,878.53	2,762.58	13.35	15.62	4.38	21.58	-637.87	174.94	153.84	21.10	8.291		
3,000.00	2,927.25	2,978.05	2,853.84	13.99	16.43	3.98	21.57	-677.56	184.66	162.73	21.93	8.419		
3,100.00	3,022.42	3,077.57	2,945.10	14.63	17.24	3.63	21.55	-717.26	194.39	171.62	22.77	8.537		
3,200.00	3,117.58	3,177.09	3,036.36	15.27	18.06	3.30	21.53	-756.95	204.12	180.51	23.61	8.646		
3,300.00	3,212.75	3,276.61	3,127.62	15.91	18.88	3.01	21.51	-796.65	213.86	189.42	24.45	8.747		
3,400.00	3,307.91	3,376.12	3,218.88	16.56	19.70	2.74	21.50	-836.34	223.61	198.32	25.29	8.841		
3,500.00	3,403.08	3,475.64	3,310.14	17.20	20.52	2.49	21.48	-876.03	233.36	207.22	26.14	8.928		
3,600.00	3,498.24	3,575.16	3,401.40	17.85	21.35	2.27	21.46	-915.73	243.12	216.13	26.98	9.010		
3,700.00	3,593.41	3,674.68	3,492.66	18.50	22.17	2.06	21.45	-955.42	252.87	225.04	27.83	9.086		
3,800.00	3,688.57	3,774.20	3,583.92	19.15	23.00	1.86	21.43	-995.11	262.64	233.95	28.68	9.157		
3,900.00	3,783.74	3,873.72	3,675.18	19.81	23.82	1.68	21.41	-1,034.81	272.40	242.87	29.53	9.224		
4,000.00	3,878.90	3,973.24	3,766.44	20.46	24.65	1.52	21.39	-1,074.50	282.17	251.78	30.38	9.286		
4,100.00	3,974.07	4,072.75	3,857.70	21.11	25.48	1.36	21.38	-1,114.19	291.93	260.70	31.24	9.346		
4,200.00	4,069.23	4,172.27	3,948.96	21.77	26.31	1.22	21.36	-1,153.89	301.70	269.61	32.09	9.401		
4,300.00	4,164.40	4,271.79	4,040.22	22.42	27.14	1.08	21.34	-1,193.58	311.48	278.53	32.95	9.454		
4,400.00	4,259.56	4,371.31	4,131.48	23.08	27.97	0.95	21.33	-1,233.28	321.25	287.45	33.80	9.504		
4,500.00	4,354.73	4,470.83	4,222.74	23.74	28.81	0.83	21.31	-1,272.97	331.03	296.37	34.66	9.551		
4,600.00	4,449.89	4,570.35	4,314.00	24.39	29.64	0.72	21.29	-1,312.66	340.80	305.29	35.52	9.595		
4,700.00	4,545.06	4,669.87	4,405.26	25.05	30.47	0.61	21.27	-1,352.36	350.58	314.21	36.38	9.638		
4,800.00	4,640.22	4,769.39	4,496.52	25.71	31.30	0.51	21.26	-1,392.05	360.36	323.13	37.23	9.678		
4,900.00	4,735.39	4,868.90	4,587.78	26.37	32.14	0.41	21.24	-1,431.74	370.14	332.05	38.09	9.717		
5,000.00	4,830.55	4,968.42	4,679.04	27.03	32.97	0.32	21.22	-1,471.44	379.92	340.97	38.95	9.753		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-02 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,925.72	5,067.94	4,770.30	27.69	33.81	0.23	21.20	-1,511.13	389.70	349.89	39.81	9.788		
5,200.00	5,020.88	5,167.46	4,861.56	28.35	34.64	0.15	21.19	-1,550.83	399.49	358.81	40.68	9.821		
5,300.00	5,116.05	5,266.98	4,952.82	29.01	35.48	0.07	21.17	-1,590.52	409.27	367.73	41.54	9.853		
5,400.00	5,211.21	5,366.50	5,044.08	29.67	36.31	0.00	21.15	-1,630.21	419.06	376.66	42.40	9.884		
5,500.00	5,306.38	5,466.02	5,135.34	30.33	37.15	-0.07	21.14	-1,669.91	428.84	385.58	43.26	9.913		
5,600.00	5,401.54	5,565.54	5,226.60	30.99	37.98	-0.14	21.12	-1,709.60	438.63	394.50	44.12	9.941		
5,700.00	5,496.71	5,665.05	5,317.86	31.65	38.82	-4.24	21.10	-1,749.29	448.41	403.42	44.99	9.968		
5,800.00	5,591.13	5,763.79	5,408.41	32.30	39.65	-31.69	21.08	-1,788.68	458.18	412.35	45.83	9.997		
5,900.00	5,682.22	5,859.05	5,495.76	32.92	40.45	-50.80	21.07	-1,826.67	468.89	422.04	46.85	10.008		
6,000.00	5,767.23	5,960.62	5,588.50	33.50	41.30	-63.67	28.94	-1,867.01	481.96	433.45	48.51	9.935		
6,100.00	5,843.56	6,071.12	5,686.20	34.04	42.18	-72.50	57.56	-1,909.52	496.66	446.06	50.60	9.816		
6,200.00	5,908.90	6,191.87	5,785.02	34.53	43.06	-78.96	111.53	-1,952.53	511.92	459.29	52.64	9.726		
6,300.00	5,961.25	6,324.30	5,878.83	34.99	43.90	-83.79	195.14	-1,993.37	526.36	472.40	53.96	9.755		
6,400.00	5,999.04	6,468.79	5,958.15	35.42	44.67	-87.26	310.39	-2,027.92	538.31	484.10	54.21	9.930		
6,500.00	6,021.11	6,623.65	6,011.00	35.83	45.33	-89.36	453.60	-2,050.98	546.15	492.57	53.58	10.193		
6,600.00	6,027.00	6,777.21	6,027.00	36.24	45.85	-90.00	605.72	-2,058.00	548.62	495.56	53.06	10.340		
6,700.00	6,027.00	6,877.21	6,027.00	36.68	46.17	-90.00	705.72	-2,058.05	548.64	494.07	54.57	10.054		
6,800.00	6,027.00	6,977.21	6,027.00	37.20	46.54	-90.00	805.72	-2,058.10	548.67	492.41	56.26	9.752		
6,900.00	6,027.00	7,077.21	6,027.00	37.80	46.97	-90.00	905.72	-2,058.14	548.69	490.57	58.12	9.441		
7,000.00	6,027.00	7,177.21	6,027.00	38.47	47.46	-90.00	1,005.72	-2,058.19	548.72	488.59	60.13	9.125		
7,100.00	6,027.00	7,277.21	6,027.00	39.21	47.99	-90.00	1,105.71	-2,058.24	548.74	486.46	62.28	8.811		
7,200.00	6,027.00	7,377.21	6,027.00	40.02	48.58	-90.00	1,205.71	-2,058.28	548.77	484.22	64.55	8.501		
7,300.00	6,027.00	7,477.21	6,027.00	40.89	49.23	-90.00	1,305.71	-2,058.33	548.79	481.86	66.93	8.199		
7,400.00	6,027.00	7,577.21	6,027.00	41.83	49.93	-90.00	1,405.71	-2,058.37	548.82	479.40	69.42	7.906		
7,500.00	6,027.00	7,677.21	6,027.00	42.83	50.68	-90.00	1,505.71	-2,058.42	548.84	476.85	71.99	7.624		
7,600.00	6,027.00	7,777.21	6,027.00	43.88	51.49	-90.00	1,605.71	-2,058.47	548.87	474.22	74.64	7.353		
7,700.00	6,027.00	7,877.21	6,027.00	44.99	52.35	-90.00	1,705.71	-2,058.51	548.89	471.53	77.37	7.095		
7,800.00	6,027.00	7,977.21	6,027.00	46.14	53.25	-90.00	1,805.71	-2,058.56	548.92	468.76	80.16	6.848		
7,900.00	6,027.00	8,077.21	6,027.00	47.33	54.21	-90.00	1,905.71	-2,058.61	548.94	465.94	83.00	6.614		
8,000.00	6,027.00	8,177.21	6,027.00	48.57	55.21	-90.00	2,005.71	-2,058.65	548.97	463.07	85.90	6.391		
8,100.00	6,027.00	8,277.21	6,027.00	49.84	56.25	-90.00	2,105.71	-2,058.70	548.99	460.14	88.85	6.179		
8,200.00	6,027.00	8,377.21	6,027.00	51.15	57.34	-90.00	2,205.71	-2,058.74	549.02	457.18	91.84	5.978		
8,300.00	6,027.00	8,477.21	6,027.00	52.48	58.46	-90.00	2,305.71	-2,058.79	549.04	454.18	94.86	5.788		
8,400.00	6,027.00	8,577.21	6,027.00	53.85	59.62	-90.00	2,405.71	-2,058.84	549.07	451.14	97.93	5.607		
8,500.00	6,027.00	8,677.21	6,027.00	55.24	60.82	-90.00	2,505.71	-2,058.88	549.09	448.07	101.02	5.435		
8,600.00	6,027.00	8,777.21	6,027.00	56.65	62.04	-90.00	2,605.71	-2,058.93	549.12	444.97	104.15	5.273		
8,700.00	6,027.00	8,877.21	6,027.00	58.08	63.30	-90.00	2,705.71	-2,058.97	549.14	441.85	107.30	5.118		
8,800.00	6,027.00	8,977.21	6,027.00	59.54	64.59	-90.00	2,805.71	-2,059.02	549.17	438.70	110.47	4.971		
8,900.00	6,027.00	9,077.21	6,027.00	61.01	65.90	-90.00	2,905.71	-2,059.07	549.19	435.53	113.67	4.832		
9,000.00	6,027.00	9,177.21	6,027.00	62.50	67.24	-90.00	3,005.71	-2,059.11	549.22	432.33	116.88	4.699		
9,100.00	6,027.00	9,277.21	6,027.00	64.01	68.60	-90.00	3,105.71	-2,059.16	549.24	429.12	120.12	4.573		
9,200.00	6,027.00	9,377.21	6,027.00	65.53	69.98	-90.00	3,205.71	-2,059.21	549.27	425.90	123.37	4.452		
9,300.00	6,027.00	9,477.21	6,027.00	67.06	71.38	-90.00	3,305.71	-2,059.25	549.29	422.65	126.64	4.337		
9,400.00	6,027.00	9,577.21	6,027.00	68.61	72.80	-90.00	3,405.71	-2,059.30	549.32	419.39	129.92	4.228		
9,500.00	6,027.00	9,677.21	6,027.00	70.17	74.24	-90.00	3,505.71	-2,059.34	549.34	416.12	133.22	4.124		
9,600.00	6,027.00	9,777.21	6,027.00	71.73	75.70	-90.00	3,605.71	-2,059.39	549.37	412.84	136.53	4.024		
9,700.00	6,027.00	9,877.21	6,027.00	73.31	77.17	-90.00	3,705.71	-2,059.44	549.39	409.54	139.85	3.928		
9,800.00	6,027.00	9,977.21	6,027.00	74.90	78.65	-90.00	3,805.71	-2,059.48	549.42	406.23	143.18	3.837		
9,900.00	6,027.00	10,077.21	6,027.00	76.50	80.15	-90.00	3,905.71	-2,059.53	549.44	402.92	146.53	3.750		
10,000.00	6,027.00	10,177.21	6,027.00	78.10	81.66	-90.00	4,005.71	-2,059.58	549.47	399.59	149.88	3.666		
10,100.00	6,027.00	10,277.21	6,027.00	79.71	83.18	-90.00	4,105.71	-2,059.62	549.49	396.25	153.24	3.586		
10,200.00	6,027.00	10,377.21	6,027.00	81.33	84.71	-90.00	4,205.71	-2,059.67	549.52	392.91	156.61	3.509		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 08N-20-02 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	10,477.21	6,027.00	82.96	86.26	-90.00	4,305.71	-2,059.71	549.54	389.56	159.99	3.435		
10,400.00	6,027.00	10,577.21	6,027.00	84.59	87.81	-90.00	4,405.71	-2,059.76	549.57	386.20	163.37	3.364		
10,500.00	6,027.00	10,677.21	6,027.00	86.23	89.37	-90.00	4,505.71	-2,059.81	549.59	382.83	166.76	3.296		
10,600.00	6,027.00	10,777.21	6,027.00	87.87	90.94	-90.00	4,605.71	-2,059.85	549.62	379.46	170.16	3.230		
10,700.00	6,027.00	10,877.21	6,027.00	89.52	92.52	-90.00	4,705.71	-2,059.90	549.64	376.08	173.56	3.167		
10,800.00	6,027.00	10,977.21	6,027.00	91.17	94.11	-90.00	4,805.71	-2,059.95	549.67	372.70	176.97	3.106		
10,900.00	6,027.00	11,077.21	6,027.00	92.83	95.70	-90.00	4,905.71	-2,059.99	549.69	369.31	180.39	3.047		
11,000.00	6,027.00	11,177.21	6,027.00	94.49	97.30	-90.00	5,005.71	-2,060.04	549.72	365.91	183.81	2.991		
11,100.00	6,027.00	11,277.21	6,027.00	96.16	98.91	-90.00	5,105.71	-2,060.08	549.74	362.51	187.23	2.936		
11,200.00	6,027.00	11,377.21	6,027.00	97.83	100.52	-90.00	5,205.71	-2,060.13	549.77	359.11	190.66	2.883		
11,300.00	6,027.00	11,477.21	6,027.00	99.50	102.14	-90.00	5,305.71	-2,060.18	549.79	355.70	194.09	2.833		
11,400.00	6,027.00	11,577.21	6,027.00	101.18	103.76	-90.00	5,405.71	-2,060.22	549.82	352.29	197.53	2.783		
11,500.00	6,027.00	11,677.21	6,027.00	102.86	105.39	-90.00	5,505.71	-2,060.27	549.84	348.87	200.97	2.736		
11,600.00	6,027.00	11,777.21	6,027.00	104.54	107.03	-90.00	5,605.71	-2,060.31	549.87	345.45	204.42	2.690		
11,700.00	6,027.00	11,877.21	6,027.00	106.23	108.67	-90.00	5,705.71	-2,060.36	549.89	342.03	207.87	2.645		
11,800.00	6,027.00	11,977.21	6,027.00	107.92	110.31	-90.00	5,805.71	-2,060.41	549.92	338.60	211.32	2.602		
11,900.00	6,027.00	12,077.21	6,027.00	109.61	111.96	-90.00	5,905.71	-2,060.45	549.94	335.17	214.78	2.561		
12,000.00	6,027.00	12,177.21	6,027.00	111.31	113.61	-90.00	6,005.71	-2,060.50	549.97	331.74	218.23	2.520		
12,100.00	6,027.00	12,277.21	6,027.00	113.00	115.27	-90.00	6,105.71	-2,060.55	549.99	328.30	221.69	2.481		
12,200.00	6,027.00	12,377.21	6,027.00	114.71	116.93	-90.00	6,205.71	-2,060.59	550.02	324.86	225.16	2.443		
12,300.00	6,027.00	12,477.21	6,027.00	116.41	118.59	-90.00	6,305.71	-2,060.64	550.04	321.42	228.63	2.406		
12,400.00	6,027.00	12,577.21	6,027.00	118.11	120.26	-90.00	6,405.71	-2,060.68	550.07	317.98	232.09	2.370		
12,500.00	6,027.00	12,677.21	6,027.00	119.82	121.93	-90.00	6,505.71	-2,060.73	550.09	314.53	235.57	2.335		
12,600.00	6,027.00	12,777.21	6,027.00	121.53	123.60	-90.00	6,605.71	-2,060.78	550.12	311.08	239.04	2.301		
12,700.00	6,027.00	12,877.21	6,027.00	123.24	125.28	-90.00	6,705.71	-2,060.82	550.14	307.63	242.52	2.268		
12,800.00	6,027.00	12,977.21	6,027.00	124.95	126.95	-90.00	6,805.71	-2,060.87	550.17	304.18	245.99	2.237		
12,900.00	6,027.00	13,077.21	6,027.00	126.66	128.64	-90.00	6,905.71	-2,060.92	550.19	300.72	249.47	2.205		
13,000.00	6,027.00	13,177.21	6,027.00	128.38	130.32	-90.00	7,005.71	-2,060.96	550.22	297.26	252.96	2.175		
13,100.00	6,027.00	13,277.21	6,027.00	130.10	132.01	-90.00	7,105.71	-2,061.01	550.24	293.81	256.44	2.146		
13,200.00	6,027.00	13,377.21	6,027.00	131.82	133.70	-90.00	7,205.71	-2,061.05	550.27	290.35	259.92	2.117		
13,300.00	6,027.00	13,477.21	6,027.00	133.54	135.39	-90.00	7,305.71	-2,061.10	550.29	286.88	263.41	2.089		
13,400.00	6,027.00	13,577.21	6,027.00	135.26	137.08	-90.00	7,405.71	-2,061.15	550.32	283.42	266.90	2.062		
13,500.00	6,027.00	13,677.21	6,027.00	136.98	138.78	-90.00	7,505.71	-2,061.19	550.35	279.95	270.39	2.035		
13,600.00	6,027.00	13,777.21	6,027.00	138.71	140.47	-90.00	7,605.71	-2,061.24	550.37	276.49	273.88	2.010		
13,700.00	6,027.00	13,877.21	6,027.00	140.43	142.17	-90.00	7,705.71	-2,061.29	550.40	273.02	277.38	1.984		
13,800.00	6,027.00	13,977.21	6,027.00	142.16	143.87	-90.00	7,805.71	-2,061.33	550.42	269.55	280.87	1.960		
13,900.00	6,027.00	14,077.21	6,027.00	143.89	145.58	-90.00	7,905.71	-2,061.38	550.45	266.08	284.37	1.936		
14,000.00	6,027.00	14,177.21	6,027.00	145.62	147.28	-90.00	8,005.71	-2,061.42	550.47	262.61	287.86	1.912		
14,100.00	6,027.00	14,277.21	6,027.00	147.35	148.99	-90.00	8,105.71	-2,061.47	550.50	259.13	291.36	1.889		
14,200.00	6,027.00	14,377.21	6,027.00	149.08	150.70	-90.00	8,205.71	-2,061.52	550.52	255.66	294.86	1.867		
14,300.00	6,027.00	14,477.21	6,027.00	150.81	152.41	-90.00	8,305.71	-2,061.56	550.55	252.18	298.36	1.845		
14,400.00	6,027.00	14,577.21	6,027.00	152.54	154.12	-90.00	8,405.71	-2,061.61	550.57	248.70	301.87	1.824		
14,500.00	6,027.00	14,677.21	6,027.00	154.28	155.83	-90.00	8,505.71	-2,061.65	550.60	245.23	305.37	1.803		
14,600.00	6,027.00	14,777.21	6,027.00	156.01	157.55	-90.00	8,605.71	-2,061.70	550.62	241.75	308.87	1.783		
14,700.00	6,027.00	14,877.21	6,027.00	157.75	159.26	-90.00	8,705.71	-2,061.75	550.65	238.27	312.38	1.763		
14,800.00	6,027.00	14,977.21	6,027.00	159.49	160.98	-90.00	8,805.71	-2,061.79	550.67	234.78	315.89	1.743		
14,900.00	6,027.00	15,077.21	6,027.00	161.22	162.70	-90.00	8,905.71	-2,061.84	550.70	231.30	319.39	1.724		
15,000.00	6,027.00	15,177.21	6,027.00	162.96	164.42	-90.00	9,005.71	-2,061.89	550.72	227.82	322.90	1.706		
15,100.00	6,027.00	15,277.21	6,027.00	164.70	166.14	-90.00	9,105.71	-2,061.93	550.75	224.34	326.41	1.687		
15,200.00	6,027.00	15,377.21	6,027.00	166.44	167.86	-90.00	9,205.71	-2,061.98	550.77	220.85	329.92	1.669		
15,300.00	6,027.00	15,477.21	6,027.00	168.18	169.58	-90.00	9,305.71	-2,062.02	550.80	217.36	333.43	1.652		
15,400.00	6,027.00	15,577.21	6,027.00	169.93	171.31	-90.00	9,405.71	-2,062.07	550.82	213.88	336.94	1.635		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 16-T5N-R61W - PH FENRIR F16 08N-20-02 - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	15,677.21	6,027.00	171.67	173.03	-90.00	9,505.71	-2,062.12	550.85	210.39	340.46	1.618	
15,600.00	6,027.00	15,777.21	6,027.00	173.41	174.76	-90.00	9,605.71	-2,062.16	550.87	206.90	343.97	1.602	
15,700.00	6,027.00	15,877.21	6,027.00	175.15	176.49	-90.00	9,705.71	-2,062.21	550.90	203.41	347.48	1.585	
15,800.00	6,027.00	15,977.21	6,027.00	176.90	178.21	-90.00	9,805.71	-2,062.26	550.92	199.92	351.00	1.570	
15,900.00	6,027.00	16,077.21	6,027.00	178.64	179.94	-90.00	9,905.71	-2,062.30	550.95	196.43	354.51	1.554	
16,000.00	6,027.00	16,177.21	6,027.00	180.39	181.67	-90.00	10,005.71	-2,062.35	550.97	192.94	358.03	1.539	
16,100.00	6,027.00	16,277.21	6,027.00	182.13	183.40	-90.00	10,105.71	-2,062.39	551.00	189.45	361.55	1.524	
16,200.00	6,027.00	16,377.21	6,027.00	183.88	185.14	-90.00	10,205.71	-2,062.44	551.02	185.96	365.06	1.509	
16,300.00	6,027.00	16,477.21	6,027.00	185.63	186.87	-90.00	10,305.71	-2,062.49	551.05	182.47	368.58	1.495	Level 3
16,400.00	6,027.00	16,577.21	6,027.00	187.38	188.60	-90.00	10,405.71	-2,062.53	551.07	178.97	372.10	1.481	Level 3
16,500.00	6,027.00	16,677.21	6,027.00	189.12	190.34	-90.00	10,505.71	-2,062.58	551.10	175.48	375.62	1.467	Level 3
16,600.00	6,027.00	16,777.21	6,027.00	190.87	192.07	-90.00	10,605.71	-2,062.63	551.12	171.98	379.14	1.454	Level 3
16,700.00	6,027.00	16,877.21	6,027.00	192.62	193.81	-90.00	10,705.71	-2,062.67	551.15	168.49	382.66	1.440	Level 3
16,795.97	6,027.00	16,973.17	6,027.00	194.30	195.47	-90.00	10,801.68	-2,062.72	551.17	165.14	386.04	1.428	Level 3, SF

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 17U-20-04 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	1.33	120.22	2.78	120.25					
100.00	100.00	100.00	100.00	0.27	0.27	1.33	120.22	2.78	120.25	119.71	0.54	223.636 CC		
200.00	200.00	198.53	198.51	0.63	0.62	0.57	120.84	1.21	120.86	119.61	1.25	96.898 ES		
300.00	300.00	296.83	296.67	0.99	0.98	-1.63	122.70	-3.50	122.80	120.84	1.96	62.585		
400.00	400.00	394.66	394.14	1.34	1.34	-5.13	125.78	-11.30	126.43	123.74	2.69	47.048		
500.00	500.00	491.81	490.59	1.70	1.73	-9.64	130.05	-22.10	132.25	128.83	3.42	38.641		
600.00	600.00	588.07	585.71	2.06	2.13	-14.80	135.46	-35.79	140.84	136.67	4.16	33.820		
700.00	700.00	683.22	679.20	2.42	2.56	-20.20	141.96	-52.24	152.69	147.78	4.91	31.124		
800.00	800.00	777.09	770.80	2.78	3.02	-25.49	149.49	-71.28	168.17	162.53	5.64	29.819		
900.00	900.00	869.50	860.28	3.14	3.50	-30.42	157.97	-92.75	187.45	181.09	6.36	29.476		
1,000.00	999.98	960.73	947.84	3.49	4.02	54.40	167.38	-116.57	209.55	202.50	7.05	29.728		
1,100.00	1,099.84	1,051.18	1,033.80	3.83	4.58	51.02	177.72	-142.73	233.11	225.38	7.74	30.134		
1,200.00	1,199.45	1,140.86	1,118.11	4.19	5.17	48.44	188.95	-171.14	257.69	249.27	8.42	30.588		
1,300.00	1,298.70	1,229.78	1,200.72	4.55	5.81	46.49	201.03	-201.73	283.01	273.89	9.12	31.029		
1,400.00	1,397.47	1,324.15	1,287.57	4.94	6.52	45.01	214.60	-236.06	308.16	298.26	9.90	31.123		
1,500.00	1,495.62	1,421.43	1,377.06	5.34	7.28	44.14	228.62	-271.55	331.08	320.34	10.74	30.819		
1,600.00	1,593.06	1,519.31	1,467.09	5.78	8.05	43.79	242.73	-307.25	351.58	339.95	11.63	30.242		
1,700.00	1,689.64	1,617.64	1,557.54	6.24	8.83	43.85	256.91	-343.12	369.61	357.05	12.56	29.436		
1,800.00	1,785.27	1,716.32	1,648.32	6.75	9.62	44.30	271.13	-379.12	385.19	371.65	13.54	28.444		
1,900.00	1,880.44	1,815.12	1,739.20	7.30	10.41	45.07	285.37	-415.16	399.73	385.15	14.58	27.425		
2,000.00	1,975.60	1,913.92	1,830.08	7.86	11.21	45.78	299.62	-451.20	414.33	398.70	15.63	26.502		
2,100.00	2,070.77	2,012.73	1,920.97	8.43	12.01	46.44	313.86	-487.25	429.00	412.28	16.71	25.666		
2,200.00	2,165.93	2,111.53	2,011.85	9.02	12.81	47.06	328.10	-523.29	443.71	425.90	17.81	24.908		
2,300.00	2,261.10	2,210.33	2,102.74	9.62	13.61	47.64	342.34	-559.33	458.47	439.54	18.93	24.219		
2,400.00	2,356.26	2,309.13	2,193.62	10.23	14.41	48.18	356.58	-595.37	473.28	453.22	20.06	23.593		
2,500.00	2,451.43	2,407.93	2,284.50	10.84	15.22	48.69	370.83	-631.41	488.12	466.92	21.20	23.021		
2,600.00	2,546.59	2,506.73	2,375.39	11.46	16.03	49.17	385.07	-667.45	503.01	480.65	22.36	22.498		
2,700.00	2,641.76	2,605.53	2,466.27	12.09	16.83	49.63	399.31	-703.50	517.92	494.40	23.52	22.018		
2,800.00	2,736.92	2,704.33	2,557.15	12.72	17.64	50.05	413.55	-739.54	532.86	508.17	24.70	21.576		
2,900.00	2,832.09	2,803.14	2,648.04	13.35	18.45	50.46	427.80	-775.58	547.83	521.95	25.88	21.169		
3,000.00	2,927.25	2,901.94	2,738.92	13.99	19.26	50.84	442.04	-811.62	562.83	535.76	27.07	20.793		
3,100.00	3,022.42	3,000.74	2,829.80	14.63	20.07	51.20	456.28	-847.66	577.85	549.58	28.26	20.445		
3,200.00	3,117.58	3,099.54	2,920.69	15.27	20.88	51.55	470.52	-883.70	592.89	563.42	29.47	20.121		
3,300.00	3,212.75	3,198.34	3,011.57	15.91	21.69	51.87	484.76	-919.74	607.95	577.28	30.67	19.820		
3,400.00	3,307.91	3,297.14	3,102.46	16.56	22.50	52.18	499.01	-955.79	623.03	591.14	31.89	19.540		
3,500.00	3,403.08	3,395.94	3,193.34	17.20	23.31	52.48	513.25	-991.83	638.13	605.02	33.10	19.278		
3,600.00	3,498.24	3,494.74	3,284.22	17.85	24.13	52.76	527.49	-1,027.87	653.24	618.92	34.32	19.032		
3,700.00	3,593.41	3,593.54	3,375.11	18.50	24.94	53.03	541.73	-1,063.91	668.37	632.82	35.55	18.802		
3,800.00	3,688.57	3,692.35	3,465.99	19.15	25.75	53.29	555.97	-1,099.95	683.51	646.73	36.78	18.586		
3,900.00	3,783.74	3,791.15	3,556.87	19.81	26.56	53.54	570.22	-1,135.99	698.66	660.65	38.01	18.382		
4,000.00	3,878.90	3,889.95	3,647.76	20.46	27.38	53.78	584.46	-1,172.03	713.83	674.58	39.24	18.191		
4,100.00	3,974.07	3,988.75	3,738.64	21.11	28.19	54.00	598.70	-1,208.08	729.00	688.53	40.48	18.010		
4,200.00	4,069.23	4,087.55	3,829.53	21.77	29.00	54.22	612.94	-1,244.12	744.19	702.47	41.72	17.838		
4,300.00	4,164.40	4,186.35	3,920.41	22.42	29.82	54.43	627.19	-1,280.16	759.39	716.43	42.96	17.676		
4,400.00	4,259.56	4,285.15	4,011.29	23.08	30.63	54.63	641.43	-1,316.20	774.60	730.39	44.21	17.523		
4,500.00	4,354.73	4,383.95	4,102.18	23.74	31.44	54.82	655.67	-1,352.24	789.82	744.36	45.45	17.377		
4,600.00	4,449.89	4,482.76	4,193.06	24.39	32.26	55.01	669.91	-1,388.28	805.04	758.34	46.70	17.239		
4,700.00	4,545.06	4,581.56	4,283.94	25.05	33.07	55.19	684.15	-1,424.33	820.27	772.32	47.95	17.107		
4,800.00	4,640.22	4,680.36	4,374.83	25.71	33.88	55.36	698.40	-1,460.37	835.51	786.31	49.20	16.981		
4,900.00	4,735.39	4,779.16	4,465.71	26.37	34.70	55.53	712.64	-1,496.41	850.76	800.31	50.46	16.862		
5,000.00	4,830.55	4,877.96	4,556.59	27.03	35.51	55.69	726.88	-1,532.45	866.02	814.31	51.71	16.747		
5,100.00	4,925.72	4,976.76	4,647.48	27.69	36.33	55.84	741.12	-1,568.49	881.28	828.31	52.97	16.638		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 17U-20-04 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	5,075.56	4,738.36	28.35	37.14	55.99	755.36	-1,604.53	896.54	842.32	54.22	16.534		
5,300.00	5,116.05	5,174.36	4,829.25	29.01	37.95	56.13	769.61	-1,640.57	911.82	856.33	55.48	16.434		
5,400.00	5,211.21	5,273.16	4,920.13	29.67	38.77	56.27	783.85	-1,676.62	927.10	870.35	56.74	16.338		
5,500.00	5,306.38	5,371.97	5,011.01	30.33	39.58	56.41	798.09	-1,712.66	942.38	884.37	58.01	16.246		
5,600.00	5,401.54	5,470.77	5,101.90	30.99	40.40	56.54	812.33	-1,748.70	957.67	898.40	59.27	16.158		
5,700.00	5,496.71	5,566.04	5,192.78	31.65	41.21	56.67	826.56	-1,784.74	972.97	912.42	60.53	16.066		
5,800.00	5,591.13	5,666.41	5,283.86	32.30	42.02	56.80	840.78	-1,820.78	988.27	926.44	61.79	15.974		
5,900.00	5,682.22	5,757.50	5,374.95	32.92	42.83	56.93	855.00	-1,856.82	1,003.57	940.46	63.05	15.882		
6,000.00	5,767.23	5,848.59	5,466.04	33.50	43.64	57.06	869.22	-1,892.86	1,018.59	954.48	64.31	15.790		
6,100.00	5,843.56	5,929.55	5,557.13	34.04	44.45	57.19	883.44	-1,928.89	1,033.61	968.50	65.57	15.698		
6,200.00	5,908.90	6,005.00	5,648.22	34.53	45.26	57.32	897.66	-1,964.93	1,048.63	982.52	66.83	15.606		
6,300.00	5,961.25	6,079.58	5,739.31	34.99	46.07	57.45	911.88	-2,000.97	1,063.65	996.54	68.09	15.514		
6,400.00	5,999.04	6,149.41	5,830.40	35.42	46.88	57.58	926.10	-2,037.01	1,078.67	1,010.56	69.35	15.422		
6,500.00	6,021.11	6,179.77	5,921.49	35.83	47.69	57.71	940.32	-2,073.05	1,093.69	1,024.58	70.61	15.330		
6,600.00	6,027.00	6,179.46	5,991.78	36.24	48.50	57.84	954.54	-2,109.09	1,108.71	1,038.60	71.87	15.238		
6,700.00	6,027.00	6,300.06	5,838.99	36.68	49.31	57.97	968.76	-2,145.13	1,123.73	1,052.62	73.13	15.146		
6,800.00	6,027.00	6,271.73	5,818.49	36.90	49.72	58.10	982.98	-2,181.17	1,138.75	1,066.64	74.39	15.054		
6,900.00	6,027.00	6,240.16	5,794.73	37.20	50.53	58.23	997.20	-2,217.21	1,153.77	1,080.66	75.65	14.962		
7,000.00	6,027.00	6,194.29	5,758.59	37.80	51.34	58.36	1,011.42	-2,253.25	1,168.79	1,094.68	76.91	14.870		
7,100.00	6,027.00	6,158.45	5,729.17	38.47	52.15	58.49	1,025.64	-2,289.29	1,183.81	1,108.70	78.17	14.778		
7,200.00	6,027.00	6,129.90	5,705.07	39.21	52.96	58.62	1,039.86	-2,325.33	1,198.83	1,122.72	79.43	14.686		
7,300.00	6,027.00	6,100.00	5,679.27	40.02	53.77	58.75	1,054.08	-2,361.37	1,213.85	1,136.74	80.69	14.594		
7,400.00	6,027.00	6,087.58	5,668.40	40.89	54.58	58.88	1,068.30	-2,397.41	1,228.87	1,150.76	81.95	14.502		
7,500.00	6,027.00	6,071.54	5,654.24	41.83	55.39	59.01	1,082.52	-2,433.45	1,243.89	1,164.78	83.21	14.410		
7,600.00	6,027.00	6,050.00	5,635.03	42.83	56.20	59.14	1,096.74	-2,469.49	1,258.91	1,178.80	84.47	14.318		
7,700.00	6,027.00	6,050.00	5,635.03	43.88	57.01	59.27	1,110.96	-2,505.53	1,273.93	1,192.82	85.73	14.226		
7,800.00	6,027.00	6,050.00	5,635.03	44.99	57.82	59.40	1,125.18	-2,541.57	1,288.95	1,206.84	86.99	14.134		
7,900.00	6,027.00	6,027.26	5,614.54	46.14	58.63	59.53	1,139.40	-2,577.61	1,303.97	1,220.86	88.25	14.042		
8,000.00	6,027.00	6,019.45	5,607.45	47.33	59.44	59.66	1,153.62	-2,613.65	1,318.99	1,234.88	89.51	13.950		
8,100.00	6,027.00	6,000.00	5,589.73	48.57	60.25	59.79	1,167.84	-2,649.69	1,334.01	1,248.90	90.77	13.858		
8,200.00	6,027.00	6,000.00	5,589.73	49.84	61.06	59.92	1,182.06	-2,685.73	1,349.03	1,262.92	92.03	13.766		
8,300.00	6,027.00	6,000.00	5,589.73	51.15	61.87	60.05	1,196.28	-2,721.77	1,364.05	1,276.94	93.29	13.674		
8,400.00	6,027.00	6,000.00	5,589.73	52.48	62.68	60.18	1,210.50	-2,757.81	1,379.07	1,290.96	94.55	13.582		
8,500.00	6,027.00	6,000.00	5,589.73	53.85	63.49	60.31	1,224.72	-2,793.85	1,394.09	1,304.98	95.81	13.490		
8,600.00	6,027.00	6,000.00	5,589.73	55.24	64.30	60.44	1,238.94	-2,829.89	1,409.11	1,318.99	97.07	13.398		
8,700.00	6,027.00	6,000.00	5,589.73	56.65	65.11	60.57	1,253.16	-2,865.93	1,424.13	1,333.01	98.33	13.306		
8,800.00	6,027.00	5,979.61	5,571.03	58.08	65.92	60.70	1,267.38	-2,901.97	1,439.15	1,347.03	99.59	13.214		
8,900.00	6,027.00	5,976.38	5,568.05	59.54	66.73	60.83	1,281.60	-2,938.01	1,454.17	1,361.05	100.85	13.122		
9,000.00	6,027.00	5,973.38	5,565.29	61.01	67.54	60.96	1,295.82	-2,974.05	1,469.19	1,375.07	102.11	13.030		
9,100.00	6,027.00	5,970.61	5,562.73	62.50	68.35	61.09	1,310.04	-3,010.09	1,484.21	1,389.09	103.37	12.938		
9,200.00	6,027.00	5,950.00	5,543.70	64.01	69.16	61.22	1,324.26	-3,046.13	1,499.23	1,403.11	104.63	12.846		
9,300.00	6,027.00	5,950.00	5,543.70	65.53	69.97	61.35	1,338.48	-3,082.17	1,514.25	1,417.13	105.89	12.754		
9,400.00	6,027.00	5,950.00	5,543.70	67.06	70.78	61.48	1,352.70	-3,118.21	1,529.27	1,431.15	107.15	12.662		
9,500.00	6,027.00	5,950.00	5,543.70	68.61	71.59	61.61	1,366.92	-3,154.25	1,544.29	1,445.17	108.41	12.570		
9,600.00	6,027.00	5,950.00	5,543.70	70.17	72.40	61.74	1,381.14	-3,190.29	1,559.31	1,459.19	109.67	12.478		
9,700.00	6,027.00	5,950.00	5,543.70	71.73	73.21	61.87	1,395.36	-3,226.33	1,574.33	1,473.21	110.93	12.386		
9,800.00	6,027.00	5,950.00	5,543.70	73.31	74.02	62.00	1,409.58	-3,262.37	1,589.35	1,487.23	112.19	12.294		
9,900.00	6,027.00	5,950.00	5,543.70	74.90	74.83	62.13	1,423.80	-3,298.41	1,604.37	1,501.25	113.45	12.202		
10,000.00	6,027.00	5,950.00	5,543.70	76.50	75.64	62.26	1,438.02	-3,334.45	1,619.39	1,515.27	114.71	12.110		
10,100.00	6,027.00	5,950.00	5,543.70	78.10	76.45	62.39	1,452.24	-3,370.49	1,634.41	1,529.29	115.97	12.018		
10,200.00	6,027.00	5,950.00	5,543.70	79.71	77.26	62.52	1,466.46	-3,406.53	1,649.43	1,543.31	117.23	11.926		
10,300.00	6,027.00	5,950.00	5,543.70	81.33	78.07	62.65	1,480.68	-3,442.57	1,664.45	1,557.33	118.49	11.834		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - PH FENRIR F16 17U-20-04 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	5,950.00	5,543.70	82.96	44.24	-40.62	865.41	-1,923.93	3,498.88	3,414.41	84.48	41.418		
10,400.00	6,027.00	5,950.00	5,543.70	84.59	44.24	-40.62	865.41	-1,923.93	3,597.26	3,512.78	84.48	42.579		
10,500.00	6,027.00	5,950.00	5,543.70	86.23	44.24	-40.62	865.41	-1,923.93	3,695.72	3,611.23	84.49	43.741		
10,600.00	6,027.00	5,950.00	5,543.70	87.87	44.24	-40.62	865.41	-1,923.93	3,794.27	3,709.77	84.50	44.903		
10,700.00	6,027.00	5,950.00	5,543.70	89.52	44.24	-40.62	865.41	-1,923.93	3,892.89	3,808.38	84.51	46.066		
10,800.00	6,027.00	5,950.00	5,543.70	91.17	44.24	-40.62	865.41	-1,923.93	3,991.57	3,907.06	84.51	47.229		
10,900.00	6,027.00	5,950.00	5,543.70	92.83	44.24	-40.62	865.41	-1,923.93	4,090.32	4,005.80	84.52	48.393		
11,000.00	6,027.00	5,950.00	5,543.70	94.49	44.24	-40.62	865.41	-1,923.93	4,189.13	4,104.60	84.53	49.557		
11,100.00	6,027.00	5,950.00	5,543.70	96.16	44.24	-40.62	865.41	-1,923.93	4,288.00	4,203.46	84.54	50.721		
11,200.00	6,027.00	5,950.00	5,543.70	97.83	44.24	-40.62	865.41	-1,923.93	4,386.92	4,302.36	84.55	51.885		
11,300.00	6,027.00	5,950.00	5,543.70	99.50	44.24	-40.62	865.41	-1,923.93	4,485.88	4,401.32	84.56	53.048		
11,400.00	6,027.00	5,950.00	5,543.70	101.18	44.24	-40.62	865.41	-1,923.93	4,584.89	4,500.32	84.57	54.212		
11,500.00	6,027.00	5,950.00	5,543.70	102.86	44.24	-40.62	865.41	-1,923.93	4,683.94	4,599.36	84.59	55.376		
11,600.00	6,027.00	5,950.00	5,543.70	104.54	44.24	-40.62	865.41	-1,923.93	4,783.03	4,698.43	84.60	56.539		
11,700.00	6,027.00	5,950.00	5,543.70	106.23	44.24	-40.62	865.41	-1,923.93	4,882.16	4,797.55	84.61	57.701		
11,800.00	6,027.00	5,950.00	5,543.70	107.92	44.24	-40.62	865.41	-1,923.93	4,981.32	4,896.70	84.62	58.864		
11,900.00	6,027.00	5,950.00	5,543.70	109.61	44.24	-40.62	865.41	-1,923.93	5,080.52	4,995.88	84.64	60.025		
12,000.00	6,027.00	5,950.00	5,543.70	111.31	44.24	-40.62	865.41	-1,923.93	5,179.75	5,095.09	84.66	61.186		
12,100.00	6,027.00	5,950.00	5,543.70	113.00	44.24	-40.62	865.41	-1,923.93	5,279.00	5,194.33	84.67	62.347		
12,200.00	6,027.00	5,950.00	5,543.70	114.71	44.24	-40.62	865.41	-1,923.93	5,378.29	5,293.60	84.69	63.507		
12,300.00	6,027.00	5,950.00	5,543.70	116.41	44.24	-40.62	865.41	-1,923.93	5,477.60	5,392.89	84.71	64.666		
12,400.00	6,027.00	5,950.00	5,543.70	118.11	44.24	-40.62	865.41	-1,923.93	5,576.93	5,492.21	84.72	65.824		
12,500.00	6,027.00	5,950.00	5,543.70	119.82	44.24	-40.62	865.41	-1,923.93	5,676.29	5,591.54	84.74	66.982		
12,600.00	6,027.00	5,950.00	5,543.70	121.53	44.24	-40.62	865.41	-1,923.93	5,775.67	5,690.90	84.76	68.139		
12,700.00	6,027.00	5,950.00	5,543.70	123.24	44.24	-40.62	865.41	-1,923.93	5,875.07	5,790.28	84.78	69.294		
12,800.00	6,027.00	5,950.00	5,543.70	124.95	44.24	-40.62	865.41	-1,923.93	5,974.49	5,889.68	84.81	70.449		
12,900.00	6,027.00	5,950.00	5,543.70	126.66	44.24	-40.62	865.41	-1,923.93	6,073.93	5,989.10	84.83	71.603		
13,000.00	6,027.00	5,927.04	5,522.41	128.38	44.08	-38.82	867.07	-1,915.48	6,172.89	6,088.35	84.84	73.017		
13,100.00	6,027.00	5,926.60	5,522.01	130.10	44.08	-38.79	867.09	-1,915.32	6,272.34	6,187.78	84.86	74.178		
13,200.00	6,027.00	5,926.18	5,521.61	131.82	44.08	-38.76	867.11	-1,915.16	6,371.82	6,287.24	84.88	75.336		
13,300.00	6,027.00	5,925.77	5,521.23	133.54	44.08	-38.73	867.13	-1,915.01	6,471.31	6,386.71	84.60	76.494		
13,400.00	6,027.00	5,925.37	5,520.86	135.26	44.07	-38.69	867.15	-1,914.86	6,570.81	6,486.19	84.62	77.651		
13,500.00	6,027.00	5,924.98	5,520.50	136.98	44.07	-38.66	867.17	-1,914.72	6,670.33	6,585.69	84.64	78.806		
13,600.00	6,027.00	5,924.60	5,520.15	138.71	44.07	-38.64	867.19	-1,914.58	6,769.86	6,685.20	84.66	79.961		
13,700.00	6,027.00	5,924.23	5,519.81	140.43	44.06	-38.61	867.21	-1,914.44	6,869.41	6,784.72	84.69	81.114		
13,800.00	6,027.00	5,923.87	5,519.47	142.16	44.06	-38.58	867.22	-1,914.31	6,968.97	6,884.25	84.71	82.265		
13,900.00	6,027.00	5,923.52	5,519.15	143.89	44.06	-38.55	867.24	-1,914.18	7,068.54	6,983.80	84.74	83.416		
14,000.00	6,027.00	5,923.18	5,518.83	145.62	44.06	-38.53	867.26	-1,914.06	7,168.12	7,083.36	84.76	84.565		
14,100.00	6,027.00	5,900.00	5,497.29	147.35	43.90	-36.79	867.84	-1,905.51	7,268.20	7,183.71	84.49	86.023		
14,200.00	6,027.00	5,900.00	5,497.29	149.08	43.90	-36.79	867.84	-1,905.51	7,367.80	7,283.27	84.52	87.168		
14,300.00	6,027.00	5,900.00	5,497.29	150.81	43.90	-36.79	867.84	-1,905.51	7,467.40	7,382.84	84.56	88.312		
14,400.00	6,027.00	5,900.00	5,497.29	152.54	43.90	-36.79	867.84	-1,905.51	7,567.01	7,482.42	84.59	89.454		
14,500.00	6,027.00	5,900.00	5,497.29	154.28	43.90	-36.79	867.84	-1,905.51	7,666.63	7,582.01	84.63	90.595		
14,600.00	6,027.00	5,900.00	5,497.29	156.01	43.90	-36.79	867.84	-1,905.51	7,766.26	7,681.60	84.66	91.734		
14,700.00	6,027.00	5,900.00	5,497.29	157.75	43.90	-36.79	867.84	-1,905.51	7,865.90	7,781.21	84.70	92.872		
14,800.00	6,027.00	5,900.00	5,497.29	159.49	43.90	-36.79	867.84	-1,905.51	7,965.56	7,880.82	84.73	94.009		
14,900.00	6,027.00	5,900.00	5,497.29	161.22	43.90	-36.79	867.84	-1,905.51	8,065.21	7,980.45	84.77	95.143		
15,000.00	6,027.00	5,900.00	5,497.29	162.96	43.90	-36.79	867.84	-1,905.51	8,164.88	8,080.08	84.81	96.277		
15,100.00	6,027.00	5,900.00	5,497.29	164.70	43.90	-36.79	867.84	-1,905.51	8,264.56	8,179.71	84.84	97.408		
15,200.00	6,027.00	5,900.00	5,497.29	166.44	43.90	-36.79	867.84	-1,905.51	8,364.24	8,279.36	84.88	98.538		
15,300.00	6,027.00	5,900.00	5,497.29	168.18	43.90	-36.79	867.84	-1,905.51	8,463.93	8,379.01	84.92	99.667		
15,400.00	6,027.00	5,900.00	5,497.29	169.93	43.90	-36.79	867.84	-1,905.51	8,563.63	8,478.67	84.96	100.794		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 16-T5N-R61W - PH FENRIR F16 17U-20-04 - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	5,900.00	5,497.29	171.67	43.90	-36.79	867.84	-1,905.51	8,663.33	8,578.33	85.00	101.919	
15,600.00	6,027.00	5,900.00	5,497.29	173.41	43.90	-36.79	867.84	-1,905.51	8,763.04	8,678.00	85.04	103.043	
15,700.00	6,027.00	5,900.00	5,497.29	175.15	43.90	-36.79	867.84	-1,905.51	8,862.76	8,777.68	85.08	104.164	
15,800.00	6,027.00	5,900.00	5,497.29	176.90	43.90	-36.79	867.84	-1,905.51	8,962.49	8,877.36	85.13	105.285	
15,900.00	6,027.00	5,900.00	5,497.29	178.64	43.90	-36.79	867.84	-1,905.51	9,062.22	8,977.05	85.17	106.403	
16,000.00	6,027.00	5,900.00	5,497.29	180.39	43.90	-36.79	867.84	-1,905.51	9,161.95	9,076.74	85.21	107.520	
16,100.00	6,027.00	5,900.00	5,497.29	182.13	43.90	-36.79	867.84	-1,905.51	9,261.70	9,176.44	85.26	108.635	
16,200.00	6,027.00	5,900.00	5,497.29	183.88	43.90	-36.79	867.84	-1,905.51	9,361.44	9,276.14	85.30	109.748	
16,300.00	6,027.00	5,900.00	5,497.29	185.63	43.90	-36.79	867.84	-1,905.51	9,461.20	9,375.85	85.34	110.860	
16,400.00	6,027.00	5,900.00	5,497.29	187.38	43.90	-36.79	867.84	-1,905.51	9,560.95	9,475.56	85.39	111.969	
16,500.00	6,027.00	5,900.00	5,497.29	189.12	43.90	-36.79	867.84	-1,905.51	9,660.72	9,575.28	85.43	113.077	
16,600.00	6,027.00	5,900.00	5,497.29	190.87	43.90	-36.79	867.84	-1,905.51	9,760.48	9,675.00	85.48	114.183	
16,700.00	6,027.00	5,900.00	5,497.29	192.62	43.90	-36.79	867.84	-1,905.51	9,860.26	9,774.73	85.53	115.287	
16,795.97	6,027.00	5,900.00	5,497.29	194.30	43.90	-36.79	867.84	-1,905.51	9,956.01	9,870.44	85.57	116.345	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - SI HZ STATE PRONGHORN 31-34-16HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 89-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	71.59	71.59	0.27	0.11	87.10	157.20	3,105.19	3,109.17	3,108.79	0.38	8,277.553		
200.00	200.00	1,196.66	1,173.22	0.63	5.33	86.46	180.42	2,914.18	3,085.36	3,080.16	5.19	594.036		
300.00	300.00	1,270.00	1,242.50	0.99	5.81	86.37	183.30	2,890.28	3,053.11	3,047.37	5.74	532.145		
400.00	400.00	1,320.87	1,290.82	1.34	6.14	86.33	184.61	2,874.43	3,022.14	3,015.91	6.23	485.079		
500.00	500.00	1,357.00	1,325.30	1.70	6.37	86.30	185.11	2,863.63	2,992.64	2,985.95	6.69	447.268		
600.00	600.00	1,420.83	1,386.48	2.06	6.76	86.26	185.97	2,845.47	2,964.48	2,957.21	7.28	407.399		
700.00	700.00	1,480.00	1,443.50	2.42	7.12	86.21	187.33	2,829.72	2,937.93	2,930.08	7.85	374.077		
800.00	800.00	1,537.23	1,498.85	2.78	7.44	86.17	188.48	2,815.21	2,912.64	2,904.21	8.43	345.690		
900.00	900.00	1,610.14	1,569.55	3.14	7.85	86.14	188.72	2,797.39	2,888.26	2,879.19	9.06	318.730		
1,000.00	999.98	1,715.74	1,672.01	3.49	8.44	175.41	188.40	2,771.85	2,865.80	2,855.99	9.81	292.222		
1,100.00	1,099.84	1,801.70	1,755.42	3.83	8.91	175.42	188.45	2,751.07	2,846.78	2,836.30	10.47	271.784		
1,200.00	1,199.45	1,900.60	1,851.46	4.19	9.46	175.40	189.33	2,727.50	2,831.58	2,820.38	11.20	252.800		
1,300.00	1,298.70	2,015.69	1,962.98	4.55	10.11	175.33	193.28	2,699.36	2,819.36	2,807.36	12.00	234.948		
1,400.00	1,397.47	2,117.51	2,061.42	4.94	10.69	175.21	199.11	2,673.96	2,810.23	2,797.47	12.76	220.192		
1,500.00	1,495.62	2,199.75	2,140.93	5.34	11.16	175.11	204.60	2,653.70	2,804.95	2,791.49	13.46	208.362		
1,600.00	1,593.06	2,342.53	2,278.82	5.78	11.99	174.91	214.80	2,618.08	2,802.96	2,788.56	14.40	194.671		
1,634.18	1,626.17	2,374.65	2,309.76	5.94	12.17	174.86	217.13	2,609.79	2,802.74	2,788.08	14.66	191.202	CC, ES	
1,700.00	1,689.64	2,436.95	2,369.80	6.24	12.54	174.78	221.43	2,593.77	2,803.54	2,788.37	15.16	184.894		
1,800.00	1,785.27	2,552.82	2,481.49	6.75	13.23	174.63	228.96	2,563.85	2,807.52	2,791.50	16.02	175.296		
1,900.00	1,880.44	2,668.11	2,592.42	7.30	13.92	174.50	236.36	2,533.30	2,812.34	2,795.46	16.87	166.680		
2,000.00	1,975.60	2,758.01	2,678.88	7.86	14.46	174.40	241.88	2,509.29	2,816.96	2,799.32	17.64	159.694		
2,100.00	2,070.77	2,840.00	2,757.93	8.43	14.94	174.32	246.66	2,488.06	2,822.36	2,803.98	18.38	153.555		
2,200.00	2,165.93	2,895.40	2,811.52	9.02	15.25	174.27	249.52	2,474.34	2,828.83	2,809.81	19.01	148.774		
2,300.00	2,261.10	2,968.00	2,882.07	9.62	15.66	174.23	252.41	2,457.44	2,836.72	2,817.00	19.71	143.907		
2,400.00	2,356.26	3,030.40	2,942.89	10.23	15.99	174.20	254.37	2,443.65	2,845.70	2,825.34	20.36	139.749		
2,500.00	2,451.43	3,122.94	3,033.25	10.84	16.48	174.18	256.97	2,423.82	2,855.46	2,834.33	21.13	135.143		
2,600.00	2,546.59	3,520.53	3,415.17	11.46	18.90	173.89	274.04	2,315.79	2,858.03	2,834.98	23.06	123.963		
2,700.00	2,641.76	3,603.00	3,493.34	12.09	19.45	173.84	277.12	2,289.67	2,857.37	2,833.54	23.83	119.907		
2,741.25	2,681.01	3,641.22	3,529.61	12.35	19.71	173.81	278.57	2,277.69	2,857.23	2,833.07	24.16	118.245		
2,800.00	2,736.92	3,679.73	3,566.23	12.72	19.96	173.78	280.07	2,265.88	2,857.44	2,832.86	24.58	116.237		
2,900.00	2,832.09	3,730.00	3,614.15	13.35	20.29	173.75	282.07	2,250.85	2,858.82	2,833.58	25.24	113.272		
3,000.00	2,927.25	3,812.93	3,693.51	13.99	20.81	173.69	285.27	2,226.99	2,861.23	2,835.22	26.01	110.017		
3,100.00	3,022.42	3,857.00	3,735.83	14.63	21.09	173.67	286.86	2,214.78	2,864.98	2,838.35	26.63	107.594		
3,200.00	3,117.58	3,924.66	3,801.07	15.27	21.48	173.63	289.21	2,197.04	2,870.13	2,842.81	27.33	105.033		
3,300.00	3,212.75	3,984.00	3,858.63	15.91	21.82	173.60	291.24	2,182.74	2,877.14	2,849.15	27.99	102.798		
3,400.00	3,307.91	4,101.95	3,973.12	16.56	22.48	173.54	295.74	2,154.73	2,884.72	2,855.84	28.88	99.892		
3,500.00	3,403.08	4,193.39	4,061.71	17.20	23.00	173.48	299.86	2,132.47	2,891.70	2,862.03	29.67	97.461		
3,600.00	3,498.24	4,344.96	4,208.37	17.85	23.87	173.36	307.68	2,095.01	2,898.54	2,867.84	30.71	94.390		
3,700.00	3,593.41	4,455.53	4,314.94	18.50	24.53	173.27	312.81	2,066.01	2,903.59	2,872.01	31.58	91.935		
3,800.00	3,688.57	4,600.66	4,454.50	19.15	25.41	173.21	317.37	2,026.45	2,907.29	2,874.70	32.59	89.213		
3,900.00	3,783.74	4,707.82	4,557.17	19.81	26.08	173.15	321.11	1,996.04	2,909.98	2,876.53	33.45	86.985		
4,000.00	3,878.90	4,746.00	4,593.84	20.46	26.32	173.13	322.42	1,985.49	2,913.98	2,879.92	34.06	85.567		
4,100.00	3,974.07	4,824.55	4,669.60	21.11	26.78	173.09	324.93	1,964.89	2,919.09	2,884.29	34.80	83.882		
4,200.00	4,069.23	4,873.00	4,716.57	21.77	27.06	173.08	326.32	1,953.07	2,925.96	2,890.54	35.42	82.608		
4,300.00	4,164.40	4,873.00	4,716.57	22.42	27.06	173.08	326.32	1,953.07	2,935.49	2,899.68	35.82	81.960		
4,400.00	4,259.56	4,947.89	4,789.68	23.08	27.43	173.06	328.26	1,937.01	2,945.72	2,909.21	36.51	80.680		
4,500.00	4,354.73	5,000.00	4,840.96	23.74	27.69	173.05	329.49	1,927.85	2,958.97	2,921.87	37.10	79.756		
4,600.00	4,449.89	5,000.00	4,840.96	24.39	27.69	173.05	329.49	1,927.85	2,974.24	2,936.81	37.43	79.465		
4,700.00	4,545.06	5,069.41	4,909.61	25.05	27.97	173.06	330.82	1,917.70	2,991.03	2,952.97	38.06	78.590		
4,800.00	4,640.22	5,127.00	4,966.77	25.71	28.20	173.07	331.58	1,910.74	3,009.83	2,971.21	38.63	77.923		
4,900.00	4,735.39	5,174.94	5,014.44	26.37	28.37	173.09	332.04	1,905.69	3,030.07	2,990.94	39.13	77.439		
5,000.00	4,830.55	5,254.00	5,093.14	27.03	28.65	173.12	332.62	1,898.18	3,051.45	3,011.68	39.78	76.710		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 89-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,925.72	5,322.95	5,161.82	27.69	28.89	173.14	333.20	1,892.15	3,073.56	3,033.19	40.37	76.127		
5,200.00	5,020.88	5,381.00	5,219.66	28.35	29.08	173.16	333.95	1,887.20	3,096.23	3,055.32	40.91	75.687		
5,300.00	5,116.05	5,458.27	5,296.70	29.01	29.33	173.18	335.02	1,881.36	3,119.73	3,078.19	41.54	75.106		
5,400.00	5,211.21	5,508.00	5,346.33	29.67	29.49	173.20	335.63	1,878.28	3,144.56	3,102.54	42.01	74.845		
5,500.00	5,306.38	5,569.95	5,408.21	30.33	29.67	173.22	336.17	1,875.28	3,170.61	3,128.07	42.54	74.528		
5,600.00	5,401.54	5,626.00	5,464.23	30.99	29.82	173.25	336.39	1,873.41	3,197.97	3,154.94	43.03	74.315		
5,700.00	5,496.71	6,225.68	5,985.81	31.65	31.05	173.40	101.49	1,845.91	3,226.19	3,180.80	45.39	71.072		
5,800.00	5,591.13	6,239.00	5,993.32	32.30	31.08	144.97	90.53	1,845.05	3,242.36	3,196.62	45.73	70.899		
5,900.00	5,682.22	6,257.32	6,003.29	32.92	31.10	126.60	75.18	1,844.03	3,260.38	3,214.32	46.06	70.784		
6,000.00	5,767.23	6,261.74	6,005.62	33.50	31.11	115.07	71.44	1,843.80	3,279.90	3,233.59	46.31	70.830		
6,100.00	5,843.56	6,257.46	6,003.36	34.04	31.10	107.21	75.07	1,844.02	3,300.37	3,253.87	46.50	70.975		
6,200.00	5,908.90	6,239.00	5,993.32	34.53	31.08	101.26	90.53	1,845.05	3,321.12	3,274.49	46.63	71.219		
6,300.00	5,961.25	6,239.00	5,993.32	34.99	31.08	97.00	90.53	1,845.05	3,341.35	3,294.47	46.88	71.279		
6,400.00	5,999.04	6,220.46	5,982.81	35.42	31.04	93.49	105.74	1,846.29	3,360.35	3,313.28	47.07	71.392		
6,500.00	6,021.11	6,200.56	5,971.08	35.83	31.01	90.84	121.74	1,847.94	3,377.46	3,330.16	47.31	71.396		
6,600.00	6,027.00	6,165.36	5,949.24	36.24	30.95	89.08	149.15	1,851.06	3,391.79	3,344.27	47.52	71.381		
6,700.00	6,027.00	6,144.00	5,935.18	36.68	30.91	88.84	165.10	1,853.13	3,406.44	3,358.58	47.85	71.188		
6,800.00	6,027.00	6,113.00	5,913.61	37.20	30.84	88.48	187.11	1,856.45	3,423.46	3,375.28	48.18	71.052		
6,900.00	6,027.00	5,978.14	5,804.57	37.80	30.56	86.64	264.94	1,867.28	3,442.76	3,394.80	47.96	71.781		
7,000.00	6,027.00	5,946.99	5,776.75	38.47	30.50	86.17	278.91	1,868.35	3,462.59	3,414.24	48.35	71.620		
7,100.00	6,027.00	5,922.00	5,753.95	39.21	30.46	85.78	289.11	1,869.04	3,484.80	3,436.00	48.80	71.410		
7,200.00	6,027.00	5,890.00	5,724.17	40.02	30.40	85.28	300.79	1,869.69	3,509.44	3,460.20	49.24	71.279		
7,300.00	6,027.00	5,877.11	5,712.00	40.89	30.38	85.08	305.01	1,869.87	3,536.52	3,486.71	49.82	70.991		
7,400.00	6,027.00	5,858.00	5,693.77	41.83	30.34	84.77	310.75	1,870.05	3,566.07	3,515.70	50.38	70.787		
7,500.00	6,027.00	5,858.00	5,693.77	42.83	30.34	84.77	310.75	1,870.05	3,598.06	3,546.98	51.08	70.437		
7,600.00	6,027.00	5,842.65	5,679.00	43.88	30.31	84.52	314.93	1,870.15	3,632.42	3,580.72	51.70	70.264		
7,700.00	6,027.00	5,827.00	5,663.84	44.99	30.28	84.27	318.80	1,870.26	3,669.18	3,616.86	52.32	70.134		
7,800.00	6,027.00	5,827.00	5,663.84	46.14	30.28	84.27	318.80	1,870.26	3,708.16	3,655.11	53.05	69.904		
7,900.00	6,027.00	5,827.00	5,663.84	47.33	30.28	84.27	318.80	1,870.26	3,749.40	3,695.62	53.78	69.721		
8,000.00	6,027.00	5,827.00	5,663.84	48.57	30.28	84.27	318.80	1,870.26	3,792.83	3,738.33	54.50	69.589 SF		
8,100.00	6,027.00	5,812.33	5,649.53	49.84	30.25	84.03	322.07	1,870.37	3,838.25	3,783.12	55.13	69.624		
8,200.00	6,027.00	5,807.87	5,645.17	51.15	30.24	83.96	322.99	1,870.42	3,885.74	3,829.93	55.81	69.622		
8,300.00	6,027.00	5,795.00	5,632.54	52.48	30.22	83.75	325.47	1,870.55	3,935.23	3,878.80	56.43	69.737		
8,400.00	6,027.00	5,795.00	5,632.54	53.85	30.22	83.75	325.47	1,870.55	3,986.51	3,929.39	57.12	69.792		
8,500.00	6,027.00	5,795.00	5,632.54	55.24	30.22	83.75	325.47	1,870.55	4,039.62	3,981.82	57.80	69.894		
8,600.00	6,027.00	5,795.00	5,632.54	56.65	30.22	83.75	325.47	1,870.55	4,094.48	4,036.02	58.46	70.043		
8,700.00	6,027.00	5,795.00	5,632.54	58.08	30.22	83.75	325.47	1,870.55	4,151.02	4,091.92	59.10	70.237		
8,800.00	6,027.00	5,795.00	5,632.54	59.54	30.22	83.75	325.47	1,870.55	4,209.19	4,149.46	59.73	70.474		
8,900.00	6,027.00	5,795.00	5,632.54	61.01	30.22	83.75	325.47	1,870.55	4,268.90	4,208.56	60.34	70.752		
9,000.00	6,027.00	5,780.53	5,618.29	62.50	30.19	83.51	327.95	1,870.74	4,329.95	4,269.11	60.84	71.168		
9,100.00	6,027.00	5,777.86	5,615.65	64.01	30.18	83.46	328.37	1,870.78	4,392.52	4,331.12	61.40	71.540		
9,200.00	6,027.00	5,763.00	5,600.95	65.53	30.15	83.22	330.53	1,871.04	4,456.54	4,394.67	61.87	72.033		
9,300.00	6,027.00	5,763.00	5,600.95	67.06	30.15	83.22	330.53	1,871.04	4,521.72	4,459.32	62.41	72.455		
9,400.00	6,027.00	5,763.00	5,600.95	68.61	30.15	83.22	330.53	1,871.04	4,588.16	4,525.23	62.93	72.912		
9,500.00	6,027.00	5,763.00	5,600.95	70.17	30.15	83.22	330.53	1,871.04	4,655.80	4,592.37	63.43	73.400		
9,600.00	6,027.00	5,763.00	5,600.95	71.73	30.15	83.22	330.53	1,871.04	4,724.58	4,660.67	63.92	73.919		
9,700.00	6,027.00	5,763.00	5,600.95	73.31	30.15	83.22	330.53	1,871.04	4,794.47	4,730.08	64.38	74.467		
9,800.00	6,027.00	5,763.00	5,600.95	74.90	30.15	83.22	330.53	1,871.04	4,865.40	4,800.57	64.83	75.043		
9,900.00	6,027.00	5,763.00	5,600.95	76.50	30.15	83.22	330.53	1,871.04	4,937.34	4,872.07	65.27	75.645		
10,000.00	6,027.00	5,763.00	5,600.95	78.10	30.15	83.22	330.53	1,871.04	5,010.25	4,944.56	65.69	76.272		
10,100.00	6,027.00	5,763.00	5,600.95	79.71	30.15	83.22	330.53	1,871.04	5,084.08	5,017.98	66.09	76.923		
10,200.00	6,027.00	5,763.00	5,600.95	81.33	30.15	83.22	330.53	1,871.04	5,158.78	5,092.30	66.48	77.596		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - SI HZ STATE PRONGHORN 31-34-16HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 89-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	5,763.00	5,600.95	82.96	30.15	83.22	330.53	1,871.04	5,234.34	5,167.48	66.86	78.291		
10,400.00	6,027.00	5,763.00	5,600.95	84.59	30.15	83.22	330.53	1,871.04	5,310.70	5,243.48	67.22	79.006		
10,500.00	6,027.00	5,763.00	5,600.95	86.23	30.15	83.22	330.53	1,871.04	5,387.83	5,320.27	67.57	79.740		
10,600.00	6,027.00	5,763.00	5,600.95	87.87	30.15	83.22	330.53	1,871.04	5,465.71	5,397.81	67.90	80.493		
10,700.00	6,027.00	5,748.03	5,586.10	89.52	30.12	82.97	332.35	1,871.32	5,544.13	5,475.97	68.16	81.341		
10,800.00	6,027.00	5,746.76	5,584.83	91.17	30.11	82.95	332.49	1,871.34	5,623.36	5,554.89	68.47	82.133		
10,900.00	6,027.00	5,745.54	5,583.62	92.83	30.11	82.93	332.62	1,871.36	5,703.25	5,634.48	68.76	82.941		
11,000.00	6,027.00	5,731.00	5,569.15	94.49	30.08	82.69	333.96	1,871.62	5,783.89	5,714.90	68.99	83.838		
11,100.00	6,027.00	5,731.00	5,569.15	96.16	30.08	82.69	333.96	1,871.62	5,864.98	5,795.70	69.27	84.667		
11,200.00	6,027.00	5,731.00	5,569.15	97.83	30.08	82.69	333.96	1,871.62	5,946.64	5,877.09	69.54	85.509		
11,300.00	6,027.00	5,731.00	5,569.15	99.50	30.08	82.69	333.96	1,871.62	6,028.85	5,959.04	69.81	86.365		
11,400.00	6,027.00	5,731.00	5,569.15	101.18	30.08	82.69	333.96	1,871.62	6,111.59	6,041.53	70.06	87.232		
11,500.00	6,027.00	5,731.00	5,569.15	102.86	30.08	82.69	333.96	1,871.62	6,194.85	6,124.54	70.31	88.112		
11,600.00	6,027.00	5,731.00	5,569.15	104.54	30.08	82.69	333.96	1,871.62	6,278.59	6,208.04	70.54	89.002		
11,700.00	6,027.00	5,731.00	5,569.15	106.23	30.08	82.69	333.96	1,871.62	6,362.80	6,292.02	70.77	89.903		
11,800.00	6,027.00	5,731.00	5,569.15	107.92	30.08	82.69	333.96	1,871.62	6,447.46	6,376.46	71.00	90.814		
11,900.00	6,027.00	5,731.00	5,569.15	109.61	30.08	82.69	333.96	1,871.62	6,532.56	6,461.35	71.21	91.735		
12,000.00	6,027.00	5,731.00	5,569.15	111.31	30.08	82.69	333.96	1,871.62	6,618.07	6,546.65	71.42	92.664		
12,100.00	6,027.00	5,731.00	5,569.15	113.00	30.08	82.69	333.96	1,871.62	6,703.98	6,632.36	71.62	93.602		
12,200.00	6,027.00	5,731.00	5,569.15	114.71	30.08	82.69	333.96	1,871.62	6,790.28	6,718.46	71.82	94.549		
12,300.00	6,027.00	5,731.00	5,569.15	116.41	30.08	82.69	333.96	1,871.62	6,876.95	6,804.94	72.01	95.503		
12,400.00	6,027.00	5,731.00	5,569.15	118.11	30.08	82.69	333.96	1,871.62	6,963.98	6,891.79	72.19	96.464		
12,500.00	6,027.00	5,731.00	5,569.15	119.82	30.08	82.69	333.96	1,871.62	7,051.35	6,978.98	72.37	97.433		
12,600.00	6,027.00	5,731.00	5,569.15	121.53	30.08	82.69	333.96	1,871.62	7,139.05	7,066.51	72.55	98.408		
12,700.00	6,027.00	5,731.00	5,569.15	123.24	30.08	82.69	333.96	1,871.62	7,227.08	7,154.36	72.71	99.389		
12,800.00	6,027.00	5,731.00	5,569.15	124.95	30.08	82.69	333.96	1,871.62	7,315.41	7,242.53	72.88	100.377		
12,900.00	6,027.00	5,731.00	5,569.15	126.66	30.08	82.69	333.96	1,871.62	7,404.04	7,331.00	73.04	101.370		
13,000.00	6,027.00	5,731.00	5,569.15	128.38	30.08	82.69	333.96	1,871.62	7,492.95	7,419.75	73.20	102.368		
13,100.00	6,027.00	5,731.00	5,569.15	130.10	30.08	82.69	333.96	1,871.62	7,582.14	7,508.79	73.35	103.372		
13,200.00	6,027.00	5,731.00	5,569.15	131.82	30.08	82.69	333.96	1,871.62	7,671.59	7,598.10	73.50	104.381		
13,300.00	6,027.00	5,731.00	5,569.15	133.54	30.08	82.69	333.96	1,871.62	7,761.31	7,687.67	73.64	105.394		
13,400.00	6,027.00	5,731.00	5,569.15	135.26	30.08	82.69	333.96	1,871.62	7,851.27	7,777.49	73.78	106.412		
13,500.00	6,027.00	5,731.00	5,569.15	136.98	30.08	82.69	333.96	1,871.62	7,941.47	7,867.55	73.92	107.434		
13,600.00	6,027.00	5,731.00	5,569.15	138.71	30.08	82.69	333.96	1,871.62	8,031.91	7,957.85	74.05	108.460		
13,700.00	6,027.00	5,731.00	5,569.15	140.43	30.08	82.69	333.96	1,871.62	8,122.57	8,048.38	74.19	109.489		
13,800.00	6,027.00	5,731.00	5,569.15	142.16	30.08	82.69	333.96	1,871.62	8,213.44	8,139.13	74.31	110.522		
13,900.00	6,027.00	5,731.00	5,569.15	143.89	30.08	82.69	333.96	1,871.62	8,304.53	8,230.09	74.44	111.559		
14,000.00	6,027.00	5,731.00	5,569.15	145.62	30.08	82.69	333.96	1,871.62	8,395.82	8,321.25	74.56	112.598		
14,100.00	6,027.00	5,731.00	5,569.15	147.35	30.08	82.69	333.96	1,871.62	8,487.30	8,412.61	74.69	113.641		
14,200.00	6,027.00	5,731.00	5,569.15	149.08	30.08	82.69	333.96	1,871.62	8,578.97	8,504.17	74.80	114.686		
14,300.00	6,027.00	5,731.00	5,569.15	150.81	30.08	82.69	333.96	1,871.62	8,670.83	8,595.91	74.92	115.734		
14,400.00	6,027.00	5,731.00	5,569.15	152.54	30.08	82.69	333.96	1,871.62	8,762.87	8,687.84	75.03	116.785		
14,500.00	6,027.00	5,731.00	5,569.15	154.28	30.08	82.69	333.96	1,871.62	8,855.08	8,779.93	75.15	117.838		
14,600.00	6,027.00	5,731.00	5,569.15	156.01	30.08	82.69	333.96	1,871.62	8,947.46	8,872.20	75.26	118.893		
14,700.00	6,027.00	5,731.00	5,569.15	157.75	30.08	82.69	333.96	1,871.62	9,040.00	8,964.63	75.36	119.950		
14,800.00	6,027.00	5,731.00	5,569.15	159.49	30.08	82.69	333.96	1,871.62	9,132.69	9,057.22	75.47	121.009		
14,900.00	6,027.00	5,716.49	5,554.67	161.22	30.05	82.45	334.97	1,871.88	9,225.39	9,149.86	75.53	122.138		
15,000.00	6,027.00	5,716.05	5,554.24	162.96	30.04	82.44	335.00	1,871.88	9,318.38	9,242.74	75.63	123.202		
15,100.00	6,027.00	5,715.62	5,553.81	164.70	30.04	82.43	335.02	1,871.89	9,411.51	9,335.77	75.74	124.268		
15,200.00	6,027.00	5,715.20	5,553.39	166.44	30.04	82.43	335.05	1,871.90	9,504.78	9,428.94	75.83	125.336		
15,300.00	6,027.00	5,714.79	5,552.98	168.18	30.04	82.42	335.07	1,871.91	9,598.18	9,522.25	75.93	126.404		
15,400.00	6,027.00	5,700.00	5,538.21	169.93	30.01	82.17	335.74	1,872.15	9,691.87	9,615.89	75.99	127.549		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		SEC 16-T5N-R61W - SI HZ STATE PRONGHORN 31-34-16HNB - OWB - FINAL SURVEY										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		89-MWD OWSG										<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Distance</b>						<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
15,500.00	6,027.00	5,700.00	5,538.21	171.67	30.01	82.17	335.74	1,872.15	9,785.53	9,709.45	76.08	128.618	
15,600.00	6,027.00	5,700.00	5,538.21	173.41	30.01	82.17	335.74	1,872.15	9,879.31	9,803.13	76.18	129.688	
15,700.00	6,027.00	5,700.00	5,538.21	175.15	30.01	82.17	335.74	1,872.15	9,973.21	9,896.94	76.27	130.758	
15,800.00	6,027.00	5,700.00	5,538.21	176.90	30.01	82.17	335.74	1,872.15	10,067.23	9,990.86	76.37	131.830	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - SI HZ STATE PRONGHORN 41-44-16HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 483-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	78.65	78.65	0.27	0.14	87.59	134.99	3,205.38	3,208.22	3,207.82	0.41	7,911.931		
200.00	200.00	182.14	182.14	0.63	0.32	87.59	134.95	3,205.24	3,208.09	3,207.14	0.94	3,399.333		
300.00	300.00	285.63	285.62	0.99	0.50	87.59	134.88	3,204.99	3,207.84	3,206.36	1.48	2,164.565		
400.00	400.00	389.11	389.11	1.34	0.68	87.59	134.77	3,204.63	3,207.49	3,205.47	2.02	1,587.697		
500.00	500.00	492.68	492.68	1.70	0.87	87.59	134.62	3,204.15	3,207.02	3,204.45	2.58	1,244.818		
600.00	600.00	597.03	597.03	2.06	1.25	87.60	134.00	3,203.57	3,206.44	3,203.13	3.31	969.581		
700.00	700.00	711.51	711.49	2.42	1.66	87.63	132.67	3,202.63	3,205.57	3,201.50	4.07	786.749		
800.00	800.00	818.02	817.99	2.78	2.04	87.65	131.32	3,201.37	3,204.34	3,199.52	4.81	665.504		
900.00	900.00	920.65	920.60	3.14	2.41	87.67	130.05	3,200.02	3,202.98	3,197.43	5.54	577.950		
940.50	940.50	961.74	961.68	3.28	2.56	176.94	129.45	3,199.47	3,202.69	3,196.86	5.83	549.227 CC, ES		
1,000.00	999.98	978.00	977.94	3.49	2.61	176.94	129.19	3,199.25	3,203.60	3,197.50	6.10	525.328		
1,100.00	1,099.84	1,050.76	1,050.69	3.83	2.86	176.95	128.55	3,199.05	3,208.70	3,202.00	6.69	479.424		
1,200.00	1,199.45	1,102.00	1,101.93	4.19	3.04	176.94	128.71	3,199.84	3,218.94	3,211.72	7.22	446.077		
1,300.00	1,298.70	1,194.24	1,194.14	4.55	3.34	176.93	129.43	3,202.04	3,233.50	3,225.63	7.87	410.770		
1,400.00	1,397.47	1,280.99	1,280.86	4.94	3.63	176.91	130.08	3,204.30	3,251.72	3,243.20	8.51	381.926		
1,500.00	1,495.62	1,366.97	1,366.79	5.34	3.92	176.89	130.82	3,206.91	3,273.77	3,264.61	9.16	357.500		
1,600.00	1,593.06	1,467.57	1,467.34	5.78	4.27	176.87	131.65	3,210.04	3,299.28	3,289.43	9.86	334.738		
1,700.00	1,689.64	1,536.85	1,536.57	6.24	4.51	176.84	132.35	3,212.41	3,328.46	3,318.01	10.45	318.564		
1,800.00	1,785.27	1,595.00	1,594.67	6.75	4.71	176.81	133.27	3,214.84	3,361.74	3,350.73	11.00	305.490		
1,900.00	1,880.44	1,652.69	1,652.26	7.30	4.91	176.81	134.54	3,217.85	3,397.48	3,385.94	11.55	294.246		
2,000.00	1,975.60	1,717.00	1,716.40	7.86	5.14	176.79	136.47	3,222.15	3,434.45	3,422.34	12.11	283.502		
2,100.00	2,070.77	1,777.28	1,776.47	8.43	5.35	176.78	138.69	3,226.69	3,472.23	3,459.56	12.67	274.056		
2,200.00	2,165.93	1,840.00	1,838.94	9.02	5.58	176.75	141.39	3,231.53	3,510.42	3,497.18	13.23	265.243		
2,300.00	2,261.10	1,916.22	1,914.76	9.62	5.85	176.70	145.97	3,237.85	3,549.15	3,535.30	13.86	256.141		
2,400.00	2,356.26	2,003.90	2,001.74	10.23	6.18	176.60	153.63	3,245.80	3,588.66	3,574.13	14.53	247.013		
2,500.00	2,451.43	2,132.15	2,128.96	10.84	6.65	176.43	166.08	3,256.14	3,627.25	3,611.88	15.37	235.921		
2,600.00	2,546.59	2,240.43	2,236.39	11.46	7.06	176.29	176.73	3,264.49	3,665.64	3,649.49	16.15	227.025		
2,700.00	2,641.76	2,361.92	2,356.99	12.09	7.52	176.14	189.02	3,272.48	3,702.87	3,685.89	16.98	218.064		
2,800.00	2,736.92	2,423.12	2,417.70	12.72	7.76	176.05	195.57	3,276.70	3,740.55	3,722.99	17.56	212.992		
2,900.00	2,832.09	2,504.99	2,498.83	13.35	8.07	175.94	204.68	3,282.90	3,778.87	3,760.64	18.23	207.237		
3,000.00	2,927.25	2,574.00	2,567.22	13.99	8.34	175.84	212.28	3,288.07	3,817.24	3,798.39	18.85	202.491		
3,100.00	3,022.42	2,653.66	2,646.15	14.63	8.66	175.74	220.95	3,294.42	3,856.00	3,836.49	19.52	197.564		
3,200.00	3,117.58	2,729.68	2,721.43	15.27	8.96	175.64	229.10	3,301.16	3,895.54	3,875.37	20.17	193.157		
3,300.00	3,212.75	2,858.42	2,849.07	15.91	9.47	175.50	241.76	3,312.22	3,934.83	3,913.76	21.06	186.823		
3,400.00	3,307.91	3,017.75	3,007.20	16.56	10.09	175.32	257.60	3,323.51	3,972.66	3,950.57	22.10	179.776		
3,500.00	3,403.08	3,112.17	3,101.02	17.20	10.47	175.23	266.48	3,329.29	4,009.63	3,986.79	22.84	175.551		
3,600.00	3,498.24	3,177.53	3,165.85	17.85	10.72	175.15	273.60	3,333.57	4,047.10	4,023.65	23.45	172.583		
3,700.00	3,593.41	3,292.54	3,279.77	18.50	11.19	174.99	287.38	3,341.24	4,084.80	4,060.51	24.30	168.114		
3,800.00	3,688.57	3,358.77	3,345.44	19.15	11.45	174.91	294.94	3,345.44	4,122.23	4,097.31	24.91	165.458		
3,900.00	3,783.74	3,406.13	3,392.40	19.81	11.64	174.86	299.92	3,349.01	4,160.62	4,135.18	25.44	163.569		
4,000.00	3,878.90	3,493.81	3,479.36	20.46	11.99	174.78	308.16	3,356.58	4,199.94	4,173.79	26.15	160.610		
4,100.00	3,974.07	3,646.46	3,631.11	21.11	12.59	174.68	320.33	3,367.82	4,237.84	4,210.67	27.17	155.973		
4,200.00	4,069.23	3,792.06	3,776.16	21.77	13.15	174.63	328.82	3,376.97	4,274.65	4,246.50	28.14	151.880		
4,300.00	4,164.40	4,109.60	4,093.38	22.42	14.26	174.70	333.60	3,387.68	4,308.06	4,278.24	29.82	144.453		
4,400.00	4,259.56	4,197.00	4,180.77	23.08	14.56	174.73	333.93	3,388.81	4,339.90	4,309.39	30.51	142.242		
4,500.00	4,354.73	4,313.90	4,297.65	23.74	14.96	174.76	334.89	3,390.08	4,371.62	4,340.29	31.33	139.548		
4,600.00	4,449.89	4,374.23	4,357.98	24.39	15.16	174.79	334.59	3,390.74	4,403.26	4,371.36	31.90	138.020		
4,700.00	4,545.06	4,448.00	4,431.71	25.05	15.40	174.84	333.06	3,392.44	4,435.83	4,403.30	32.53	136.355		
4,800.00	4,640.22	4,617.30	4,600.94	25.71	15.96	174.96	329.36	3,395.26	4,468.11	4,434.57	33.55	133.189		
4,900.00	4,735.39	4,763.91	4,747.54	26.37	16.44	175.03	328.09	3,394.75	4,498.24	4,463.78	34.47	130.515		
5,000.00	4,830.55	4,862.40	4,846.03	27.03	16.75	175.07	327.29	3,393.93	4,528.01	4,492.82	35.19	128.666		
5,100.00	4,925.72	4,950.86	4,934.49	27.69	17.04	175.11	326.57	3,393.28	4,557.87	4,521.99	35.88	127.033		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 483-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	5,055.22	5,038.84	28.35	17.38	175.16	325.86	3,392.48	4,587.71	4,551.08	36.63	125.236		
5,300.00	5,116.05	5,161.03	5,144.64	29.01	17.73	175.20	325.40	3,391.42	4,617.36	4,579.96	37.39	123.481		
5,400.00	5,211.21	5,249.18	5,232.79	29.67	18.02	175.23	325.20	3,390.44	4,646.91	4,608.82	38.08	122.019		
5,500.00	5,306.38	5,331.11	5,314.72	30.33	18.29	175.25	325.19	3,389.77	4,676.75	4,638.00	38.75	120.693		
5,600.00	5,401.54	6,041.00	5,963.64	30.99	20.26	177.95	121.93	3,357.28	4,702.52	4,661.04	41.48	113.374		
5,700.00	5,496.71	6,041.00	5,963.64	31.65	20.26	173.53	121.93	3,357.28	4,722.14	4,680.25	41.88	112.742		
5,800.00	5,591.13	6,053.91	5,971.81	32.30	20.29	144.49	111.94	3,356.69	4,743.30	4,700.98	42.32	112.093		
5,900.00	5,682.22	6,072.00	5,982.86	32.92	20.34	125.60	97.63	3,356.13	4,765.36	4,722.62	42.74	111.488		
6,000.00	5,767.23	6,072.00	5,982.86	33.50	20.34	113.71	97.63	3,356.13	4,787.57	4,744.48	43.09	111.110		
6,100.00	5,843.56	6,072.00	5,982.86	34.04	20.34	105.79	97.63	3,356.13	4,809.42	4,765.99	43.42	110.759		
6,200.00	5,908.90	6,072.00	5,982.86	34.53	20.34	100.15	97.63	3,356.13	4,830.24	4,786.49	43.76	110.385		
6,300.00	5,961.25	6,055.66	5,972.90	34.99	20.29	95.83	110.58	3,356.62	4,849.28	4,805.22	44.05	110.074		
6,400.00	5,999.04	6,041.00	5,963.64	35.42	20.26	92.67	121.93	3,357.28	4,866.10	4,821.72	44.38	109.640		
6,500.00	6,021.11	6,041.00	5,963.64	35.83	20.26	90.61	121.93	3,357.28	4,880.02	4,835.24	44.79	108.962		
6,600.00	6,027.00	6,025.96	5,953.87	36.24	20.22	89.42	133.33	3,358.17	4,890.70	4,845.53	45.18	108.260		
6,700.00	6,027.00	6,009.00	5,942.59	36.68	20.18	89.29	145.92	3,359.43	4,901.32	4,855.70	45.62	107.449		
6,800.00	6,027.00	5,989.29	5,929.02	37.20	20.14	89.13	160.13	3,361.06	4,913.68	4,867.57	46.11	106.568		
6,900.00	6,027.00	5,961.11	5,908.72	37.80	20.08	88.89	179.52	3,363.43	4,927.64	4,881.00	46.63	105.665		
7,000.00	6,027.00	5,948.00	5,898.92	38.47	20.05	88.78	188.15	3,364.56	4,943.26	4,896.02	47.24	104.632		
7,100.00	6,027.00	5,917.00	5,874.95	39.21	19.99	88.50	207.60	3,367.42	4,960.62	4,912.76	47.85	103.660		
7,200.00	6,027.00	5,917.00	5,874.95	40.02	19.99	88.50	207.60	3,367.42	4,979.72	4,931.15	48.57	102.527		
7,300.00	6,027.00	5,887.00	5,850.73	40.89	19.92	88.21	225.04	3,370.37	5,000.51	4,951.26	49.25	101.535		
7,400.00	6,027.00	5,872.37	5,838.56	41.83	19.89	88.07	233.03	3,371.83	5,023.03	4,973.04	49.99	100.488		
7,500.00	6,027.00	5,855.00	5,823.83	42.83	19.85	87.90	242.07	3,373.58	5,047.26	4,996.52	50.74	99.477		
7,600.00	6,027.00	5,835.22	5,806.71	43.88	19.81	87.70	251.77	3,375.53	5,073.16	5,021.66	51.50	98.510		
7,700.00	6,027.00	5,824.00	5,796.83	44.99	19.78	87.58	256.99	3,376.60	5,100.71	5,048.41	52.29	97.544		
7,800.00	6,027.00	5,793.00	5,768.95	46.14	19.71	87.26	270.23	3,379.40	5,129.91	5,076.86	53.04	96.713		
7,900.00	6,027.00	5,793.00	5,768.95	47.33	19.71	87.26	270.23	3,379.40	5,160.75	5,106.87	53.88	95.791		
8,000.00	6,027.00	5,762.00	5,740.31	48.57	19.63	86.93	281.83	3,381.91	5,193.21	5,138.58	54.63	95.065		
8,100.00	6,027.00	5,734.68	5,714.58	49.84	19.57	86.63	290.83	3,383.75	5,227.22	5,171.83	55.38	94.382		
8,200.00	6,027.00	5,718.41	5,699.09	51.15	19.52	86.45	295.70	3,384.66	5,262.74	5,206.58	56.17	93.698		
8,300.00	6,027.00	5,700.00	5,681.42	52.48	19.47	86.24	300.78	3,385.58	5,299.86	5,242.92	56.94	93.083		
8,400.00	6,027.00	5,700.00	5,681.42	53.85	19.47	86.24	300.78	3,385.58	5,338.51	5,280.75	57.76	92.427		
8,500.00	6,027.00	5,684.31	5,666.25	55.24	19.43	86.07	304.74	3,386.28	5,378.69	5,320.17	58.52	91.912		
8,600.00	6,027.00	5,668.00	5,650.40	56.65	19.38	85.88	308.51	3,386.93	5,420.40	5,361.13	59.27	91.455		
8,700.00	6,027.00	5,668.00	5,650.40	58.08	19.38	85.88	308.51	3,386.93	5,463.55	5,403.49	60.06	90.966		
8,800.00	6,027.00	5,668.00	5,650.40	59.54	19.38	85.88	308.51	3,386.93	5,508.19	5,447.34	60.84	90.533		
8,900.00	6,027.00	5,655.78	5,638.46	61.01	19.35	85.74	311.09	3,387.36	5,554.21	5,492.64	61.57	90.216		
9,000.00	6,027.00	5,650.84	5,633.62	62.50	19.34	85.69	312.07	3,387.53	5,601.63	5,539.33	62.30	89.912		
9,100.00	6,027.00	5,637.00	5,620.02	64.01	19.30	85.53	314.60	3,387.96	5,650.45	5,587.46	62.99	89.703		
9,200.00	6,027.00	5,637.00	5,620.02	65.53	19.30	85.53	314.60	3,387.96	5,700.53	5,636.82	63.71	89.470		
9,300.00	6,027.00	5,637.00	5,620.02	67.06	19.30	85.53	314.60	3,387.96	5,751.91	5,687.49	64.42	89.284		
9,400.00	6,027.00	5,637.00	5,620.02	68.61	19.30	85.53	314.60	3,387.96	5,804.57	5,739.45	65.12	89.143		
9,500.00	6,027.00	5,637.00	5,620.02	70.17	19.30	85.53	314.60	3,387.96	5,858.45	5,792.66	65.79	89.045 SF		
9,600.00	6,027.00	5,624.41	5,607.61	71.73	19.26	85.38	316.67	3,388.29	5,913.49	5,847.08	66.41	89.050		
9,700.00	6,027.00	5,620.45	5,603.70	73.31	19.25	85.34	317.27	3,388.39	5,969.70	5,902.67	67.04	89.051		
9,800.00	6,027.00	5,606.00	5,589.39	74.90	19.20	85.17	319.27	3,388.67	6,027.08	5,959.47	67.61	89.143		
9,900.00	6,027.00	5,606.00	5,589.39	76.50	19.20	85.17	319.27	3,388.67	6,085.50	6,017.27	68.22	89.198		
10,000.00	6,027.00	5,606.00	5,589.39	78.10	19.20	85.17	319.27	3,388.67	6,144.98	6,076.16	68.82	89.289		
10,100.00	6,027.00	5,606.00	5,589.39	79.71	19.20	85.17	319.27	3,388.67	6,205.51	6,136.11	69.40	89.413		
10,200.00	6,027.00	5,606.00	5,589.39	81.33	19.20	85.17	319.27	3,388.67	6,267.05	6,197.08	69.97	89.569		
10,300.00	6,027.00	5,606.00	5,589.39	82.96	19.20	85.17	319.27	3,388.67	6,329.57	6,259.05	70.52	89.756		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - SI HZ STATE PRONGHORN 41-44-16HZ - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 483-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,606.00	5,589.39	84.59	19.20	85.17	319.27	3,388.67	6,393.05	6,321.99	71.06	89.973		
10,500.00	6,027.00	5,606.00	5,589.39	86.23	19.20	85.17	319.27	3,388.67	6,457.44	6,385.87	71.58	90.218		
10,600.00	6,027.00	5,606.00	5,589.39	87.87	19.20	85.17	319.27	3,388.67	6,522.74	6,450.66	72.08	90.490		
10,700.00	6,027.00	5,606.00	5,589.39	89.52	19.20	85.17	319.27	3,388.67	6,588.90	6,516.33	72.57	90.789		
10,800.00	6,027.00	5,606.00	5,589.39	91.17	19.20	85.17	319.27	3,388.67	6,655.92	6,582.86	73.05	91.112		
10,900.00	6,027.00	5,591.87	5,575.35	92.83	19.16	85.01	320.90	3,388.85	6,723.64	6,650.18	73.46	91.523		
11,000.00	6,027.00	5,590.41	5,573.90	94.49	19.15	84.99	321.04	3,388.86	6,792.25	6,718.34	73.91	91.899		
11,100.00	6,027.00	5,589.02	5,572.51	96.16	19.15	84.98	321.18	3,388.87	6,861.62	6,787.27	74.34	92.296		
11,200.00	6,027.00	5,575.00	5,558.55	97.83	19.10	84.82	322.38	3,388.94	6,931.82	6,857.10	74.72	92.777		
11,300.00	6,027.00	5,575.00	5,558.55	99.50	19.10	84.82	322.38	3,388.94	7,002.65	6,927.52	75.13	93.207		
11,400.00	6,027.00	5,575.00	5,558.55	101.18	19.10	84.82	322.38	3,388.94	7,074.18	6,998.64	75.53	93.657		
11,500.00	6,027.00	5,575.00	5,558.55	102.86	19.10	84.82	322.38	3,388.94	7,146.39	7,070.47	75.92	94.125		
11,600.00	6,027.00	5,575.00	5,558.55	104.54	19.10	84.82	322.38	3,388.94	7,219.27	7,142.96	76.30	94.611		
11,700.00	6,027.00	5,575.00	5,558.55	106.23	19.10	84.82	322.38	3,388.94	7,292.79	7,216.11	76.67	95.114		
11,800.00	6,027.00	5,575.00	5,558.55	107.92	19.10	84.82	322.38	3,388.94	7,366.93	7,289.90	77.03	95.634		
11,900.00	6,027.00	5,575.00	5,558.55	109.61	19.10	84.82	322.38	3,388.94	7,441.68	7,364.30	77.38	96.169		
12,000.00	6,027.00	5,575.00	5,558.55	111.31	19.10	84.82	322.38	3,388.94	7,517.02	7,439.29	77.72	96.719		
12,100.00	6,027.00	5,575.00	5,558.55	113.00	19.10	84.82	322.38	3,388.94	7,592.92	7,514.87	78.05	97.283		
12,200.00	6,027.00	5,575.00	5,558.55	114.71	19.10	84.82	322.38	3,388.94	7,669.38	7,591.01	78.37	97.861		
12,300.00	6,027.00	5,575.00	5,558.55	116.41	19.10	84.82	322.38	3,388.94	7,746.37	7,667.69	78.68	98.452		
12,400.00	6,027.00	5,575.00	5,558.55	118.11	19.10	84.82	322.38	3,388.94	7,823.89	7,744.90	78.98	99.056		
12,500.00	6,027.00	5,575.00	5,558.55	119.82	19.10	84.82	322.38	3,388.94	7,901.91	7,822.63	79.28	99.673		
12,600.00	6,027.00	5,575.00	5,558.55	121.53	19.10	84.82	322.38	3,388.94	7,980.42	7,900.85	79.56	100.301		
12,700.00	6,027.00	5,575.00	5,558.55	123.24	19.10	84.82	322.38	3,388.94	8,059.40	7,979.56	79.84	100.940		
12,800.00	6,027.00	5,575.00	5,558.55	124.95	19.10	84.82	322.38	3,388.94	8,138.85	8,058.74	80.11	101.590		
12,900.00	6,027.00	5,575.00	5,558.55	126.66	19.10	84.82	322.38	3,388.94	8,218.75	8,138.37	80.38	102.251		
13,000.00	6,027.00	5,575.00	5,558.55	128.38	19.10	84.82	322.38	3,388.94	8,299.08	8,218.45	80.63	102.922		
13,100.00	6,027.00	5,575.00	5,558.55	130.10	19.10	84.82	322.38	3,388.94	8,379.84	8,298.95	80.88	103.602		
13,200.00	6,027.00	5,575.00	5,558.55	131.82	19.10	84.82	322.38	3,388.94	8,461.01	8,379.88	81.13	104.292		
13,300.00	6,027.00	5,575.00	5,558.55	133.54	19.10	84.82	322.38	3,388.94	8,542.57	8,461.21	81.37	104.990		
13,400.00	6,027.00	5,575.00	5,558.55	135.26	19.10	84.82	322.38	3,388.94	8,624.53	8,542.93	81.60	105.697		
13,500.00	6,027.00	5,575.00	5,558.55	136.98	19.10	84.82	322.38	3,388.94	8,706.86	8,625.04	81.82	106.413		
13,600.00	6,027.00	5,575.00	5,558.55	138.71	19.10	84.82	322.38	3,388.94	8,789.56	8,707.52	82.04	107.136		
13,700.00	6,027.00	5,575.00	5,558.55	140.43	19.10	84.82	322.38	3,388.94	8,872.61	8,790.36	82.25	107.867		
13,800.00	6,027.00	5,575.00	5,558.55	142.16	19.10	84.82	322.38	3,388.94	8,956.01	8,873.55	82.46	108.606		
13,900.00	6,027.00	5,575.00	5,558.55	143.89	19.10	84.82	322.38	3,388.94	9,039.75	8,957.08	82.67	109.351		
14,000.00	6,027.00	5,575.00	5,558.55	145.62	19.10	84.82	322.38	3,388.94	9,123.82	9,040.95	82.87	110.103		
14,100.00	6,027.00	5,575.00	5,558.55	147.35	19.10	84.82	322.38	3,388.94	9,208.20	9,125.14	83.06	110.862		
14,200.00	6,027.00	5,575.00	5,558.55	149.08	19.10	84.82	322.38	3,388.94	9,292.89	9,209.64	83.25	111.627		
14,300.00	6,027.00	5,575.00	5,558.55	150.81	19.10	84.82	322.38	3,388.94	9,377.89	9,294.45	83.43	112.399		
14,400.00	6,027.00	5,575.00	5,558.55	152.54	19.10	84.82	322.38	3,388.94	9,463.18	9,379.56	83.61	113.176		
14,500.00	6,027.00	5,575.00	5,558.55	154.28	19.10	84.82	322.38	3,388.94	9,548.75	9,464.96	83.79	113.959		
14,600.00	6,027.00	5,575.00	5,558.55	156.01	19.10	84.82	322.38	3,388.94	9,634.60	9,550.64	83.96	114.747		
14,700.00	6,027.00	5,575.00	5,558.55	157.75	19.10	84.82	322.38	3,388.94	9,720.72	9,636.59	84.13	115.541		
14,800.00	6,027.00	5,561.16	5,544.74	159.49	19.06	84.66	323.25	3,388.94	9,806.99	9,722.74	84.25	116.408		
14,900.00	6,027.00	5,560.74	5,544.31	161.22	19.06	84.65	323.28	3,388.94	9,893.62	9,809.22	84.41	117.214		
15,000.00	6,027.00	5,560.32	5,543.90	162.96	19.06	84.65	323.30	3,388.94	9,980.51	9,895.95	84.56	118.024		
15,100.00	6,027.00	5,559.91	5,543.49	164.70	19.06	84.64	323.32	3,388.94	10,067.64	9,982.92	84.72	118.839		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - STATE PH FENRIR F16 16S-10-05 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	1.62	98.36	2.78	98.40					
100.00	100.00	100.00	100.00	0.27	0.27	1.62	98.36	2.78	98.40	97.87	0.54	183.006		
200.00	200.00	200.00	200.00	0.63	0.63	1.62	98.36	2.78	98.40	97.15	1.25	78.431	CC, ES	
300.00	300.00	297.02	297.00	0.99	0.98	2.06	99.79	3.59	99.90	97.94	1.96	50.890		
400.00	400.00	393.81	393.66	1.34	1.33	3.30	104.07	6.01	104.44	101.76	2.67	39.080		
500.00	500.00	490.16	489.66	1.70	1.68	5.14	111.15	10.01	112.07	108.69	3.38	33.159		
600.00	600.00	585.86	584.69	2.06	2.05	7.33	120.95	15.55	122.91	118.82	4.08	30.092		
700.00	700.00	680.70	678.45	2.42	2.43	9.61	133.39	22.58	137.00	132.22	4.78	28.645		
800.00	800.00	779.06	775.40	2.78	2.84	11.74	147.83	30.73	152.98	147.48	5.50	27.815		
900.00	900.00	877.63	872.56	3.14	3.27	13.48	162.30	38.91	169.14	162.92	6.22	27.194		
1,000.00	999.98	976.04	969.56	3.49	3.70	104.37	176.74	47.07	185.85	178.92	6.93	26.828		
1,100.00	1,099.84	1,074.04	1,066.16	3.83	4.13	106.60	191.13	55.20	203.70	196.07	7.63	26.681	SF	
1,200.00	1,199.45	1,171.52	1,162.24	4.19	4.56	109.24	205.44	63.28	223.03	214.69	8.34	26.732		
1,300.00	1,298.70	1,268.36	1,257.70	4.55	4.98	112.13	219.65	71.31	244.15	235.09	9.06	26.957		
1,400.00	1,397.47	1,364.45	1,352.41	4.94	5.41	115.13	233.76	79.28	267.37	257.59	9.78	27.339		
1,500.00	1,495.62	1,459.65	1,446.25	5.34	5.84	118.14	247.73	87.18	292.98	282.47	10.51	27.864		
1,600.00	1,593.06	1,553.87	1,539.12	5.78	6.26	121.08	261.56	94.99	321.21	309.95	11.26	28.520		
1,700.00	1,689.64	1,646.98	1,630.89	6.24	6.67	123.89	275.23	102.71	352.24	340.21	12.02	29.293		
1,800.00	1,785.27	1,738.87	1,721.47	6.75	7.08	126.57	288.72	110.33	386.19	373.39	12.80	30.165		
1,900.00	1,880.44	1,830.18	1,811.47	7.30	7.49	129.46	302.12	117.91	422.03	408.45	13.58	31.075		
2,000.00	1,975.60	1,921.49	1,901.48	7.86	7.90	131.91	315.52	125.48	458.70	444.33	14.36	31.935		
2,100.00	2,070.77	2,012.81	1,991.49	8.43	8.31	134.00	328.93	133.05	496.00	480.85	15.15	32.743		
2,200.00	2,165.93	2,104.12	2,081.49	9.02	8.72	135.81	342.33	140.63	533.81	517.88	15.93	33.501		
2,300.00	2,261.10	2,195.44	2,171.50	9.62	9.13	137.38	355.74	148.20	572.03	555.31	16.72	34.210		
2,400.00	2,356.26	2,286.75	2,261.51	10.23	9.54	138.76	369.14	155.77	610.57	593.06	17.51	34.872		
2,500.00	2,451.43	2,378.06	2,351.51	10.84	9.95	139.98	382.54	163.35	649.39	631.09	18.30	35.492		
2,600.00	2,546.59	2,469.38	2,441.52	11.46	10.37	141.06	395.95	170.92	688.43	669.35	19.09	36.071		
2,700.00	2,641.76	2,560.69	2,531.53	12.09	10.78	142.03	409.35	178.49	727.66	707.79	19.87	36.614		
2,800.00	2,736.92	2,652.01	2,621.53	12.72	11.19	142.90	422.75	186.06	767.06	746.39	20.66	37.122		
2,900.00	2,832.09	2,743.32	2,711.54	13.35	11.60	143.69	436.16	193.64	806.58	785.13	21.45	37.599		
3,000.00	2,927.25	2,834.63	2,801.55	13.99	12.01	144.40	449.56	201.21	846.23	823.99	22.24	38.046		
3,100.00	3,022.42	2,925.95	2,891.56	14.63	12.42	145.05	462.97	208.78	885.97	862.94	23.03	38.468		
3,200.00	3,117.58	3,017.26	2,981.56	15.27	12.83	145.64	476.37	216.36	925.81	901.99	23.82	38.864		
3,300.00	3,212.75	3,108.58	3,071.57	15.91	13.24	146.19	489.77	223.93	965.72	941.11	24.61	39.238		
3,400.00	3,307.91	3,199.89	3,161.58	16.56	13.66	146.69	503.18	231.50	1,005.70	980.30	25.40	39.591		
3,500.00	3,403.08	3,291.20	3,251.58	17.20	14.07	147.16	516.58	239.08	1,045.75	1,019.55	26.19	39.924		
3,600.00	3,498.24	3,382.52	3,341.59	17.85	14.48	147.59	529.98	246.65	1,085.84	1,058.86	26.98	40.240		
3,700.00	3,593.41	3,473.83	3,431.60	18.50	14.89	147.99	543.39	254.22	1,125.98	1,098.21	27.78	40.539		
3,800.00	3,688.57	3,565.15	3,521.60	19.15	15.30	148.36	556.79	261.80	1,166.17	1,137.60	28.57	40.822		
3,900.00	3,783.74	3,656.46	3,611.61	19.81	15.72	148.71	570.20	269.37	1,206.40	1,177.04	29.36	41.092		
4,000.00	3,878.90	3,747.77	3,701.62	20.46	16.13	149.03	583.60	276.94	1,246.66	1,216.51	30.15	41.348		
4,100.00	3,974.07	3,839.09	3,791.62	21.11	16.54	149.34	597.00	284.51	1,286.95	1,256.01	30.94	41.591		
4,200.00	4,069.23	3,930.40	3,881.63	21.77	16.95	149.62	610.41	292.09	1,327.27	1,295.53	31.74	41.823		
4,300.00	4,164.40	4,021.72	3,971.64	22.42	17.36	149.89	623.81	299.66	1,367.62	1,335.09	32.53	42.045		
4,400.00	4,259.56	4,113.03	4,061.64	23.08	17.78	150.15	637.21	307.23	1,407.99	1,374.67	33.32	42.256		
4,500.00	4,354.73	4,204.34	4,151.65	23.74	18.19	150.39	650.62	314.81	1,448.38	1,414.27	34.11	42.458		
4,600.00	4,449.89	4,295.66	4,241.66	24.39	18.60	150.62	664.02	322.38	1,488.80	1,453.89	34.91	42.651		
4,700.00	4,545.06	4,386.97	4,331.66	25.05	19.01	150.83	677.43	329.95	1,529.23	1,493.53	35.70	42.836		
4,800.00	4,640.22	4,478.29	4,421.67	25.71	19.42	151.04	690.83	337.53	1,569.68	1,533.18	36.49	43.012		
4,900.00	4,735.39	4,569.60	4,511.68	26.37	19.84	151.23	704.23	345.10	1,610.14	1,572.85	37.29	43.182		
5,000.00	4,830.55	4,660.91	4,601.69	27.03	20.25	151.41	717.64	352.67	1,650.62	1,612.54	38.08	43.345		
5,100.00	4,925.72	4,752.23	4,691.69	27.69	20.66	151.59	731.04	360.25	1,691.12	1,652.24	38.88	43.501		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - STATE PH FENRIR F16 16S-10-05 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	4,843.54	4,781.70	28.35	21.07	151.76	744.44	367.82	1,731.62	1,691.95	39.67	43.651		
5,300.00	5,116.05	4,934.85	4,871.71	29.01	21.49	151.92	757.85	375.39	1,772.14	1,731.68	40.46	43.795		
5,400.00	5,211.21	5,026.17	4,961.71	29.67	21.90	152.07	771.25	382.96	1,812.67	1,771.41	41.26	43.933		
5,500.00	5,306.38	5,117.48	5,051.72	30.33	22.31	152.22	784.65	390.54	1,853.21	1,811.16	42.05	44.067		
5,600.00	5,401.54	6,666.38	6,027.00	30.99	23.91	179.00	26.71	477.52	1,891.35	1,847.65	43.70	43.285		
5,647.12	5,446.38	6,665.85	6,027.00	31.30	23.91	177.04	27.23	477.52	1,890.76	1,846.64	44.12	42.852		
5,700.00	5,496.71	6,665.65	6,027.00	31.65	23.91	174.81	27.43	477.51	1,891.50	1,846.93	44.58	42.432		
5,800.00	5,591.13	6,654.06	6,027.00	32.30	23.86	146.92	39.02	477.45	1,896.82	1,851.51	45.31	41.863		
5,900.00	5,682.22	6,625.42	6,027.00	32.92	23.75	128.24	67.66	477.30	1,906.75	1,860.89	45.86	41.578		
6,000.00	5,767.23	6,580.60	6,027.00	33.50	23.62	116.06	112.48	477.05	1,920.17	1,873.91	46.26	41.507		
6,100.00	5,843.56	6,520.97	6,027.00	34.04	23.53	107.38	172.12	476.73	1,935.55	1,888.97	46.58	41.552		
6,200.00	5,908.90	6,448.32	6,027.00	34.53	23.54	100.82	244.76	476.33	1,951.13	1,904.23	46.90	41.605		
6,300.00	5,961.25	6,323.75	6,017.73	34.99	23.71	95.10	368.77	474.87	1,964.46	1,917.13	47.33	41.505		
6,400.00	5,999.04	6,205.46	5,984.81	35.42	23.94	90.73	482.11	471.45	1,973.18	1,925.30	47.88	41.215		
6,500.00	6,021.11	6,105.46	5,939.37	35.83	24.14	87.76	570.94	467.11	1,977.32	1,928.91	48.42	40.838		
6,600.00	6,027.00	6,018.15	5,887.63	36.24	24.30	85.96	641.00	462.33	1,976.95	1,928.03	48.92	40.413		
6,674.28	6,027.00	5,963.31	5,849.94	36.56	24.38	84.86	680.66	458.91	1,976.27	1,927.00	49.26	40.117		
6,700.00	6,027.00	5,946.54	5,837.67	36.68	24.40	84.50	692.04	457.81	1,976.36	1,927.00	49.36	40.039		
6,800.00	6,027.00	5,890.47	5,794.36	37.20	24.46	83.24	727.40	453.94	1,978.66	1,928.91	49.75	39.773		
6,900.00	6,027.00	5,850.00	5,761.06	37.80	24.48	82.27	750.19	450.98	1,984.52	1,934.40	50.11	39.601		
7,000.00	6,027.00	5,810.69	5,727.25	38.47	24.50	81.29	770.02	448.00	1,994.30	1,943.86	50.44	39.539		
7,100.00	6,027.00	5,781.82	5,701.61	39.21	24.49	80.55	783.07	445.75	2,008.27	1,957.51	50.76	39.563		
7,200.00	6,027.00	5,750.00	5,672.62	40.02	24.49	79.71	795.94	443.22	2,026.55	1,975.51	51.04	39.705		
7,300.00	6,027.00	5,750.00	5,672.62	40.89	24.49	79.71	795.94	443.22	2,049.14	1,997.70	51.44	39.836		
7,400.00	6,027.00	5,721.18	5,645.79	41.83	24.47	78.94	806.18	440.89	2,075.89	2,024.22	51.67	40.175		
7,500.00	6,027.00	5,700.00	5,625.75	42.83	24.45	78.36	812.84	439.15	2,106.89	2,054.97	51.91	40.585		
7,600.00	6,027.00	5,700.00	5,625.75	43.88	24.45	78.36	812.84	439.15	2,141.89	2,089.63	52.25	40.989		
7,700.00	6,027.00	5,683.29	5,609.79	44.99	24.43	77.91	817.56	437.77	2,180.75	2,128.28	52.46	41.567		
7,800.00	6,027.00	5,673.69	5,600.55	46.14	24.42	77.64	820.06	436.97	2,223.32	2,170.63	52.69	42.194		
7,900.00	6,027.00	5,650.00	5,577.60	47.33	24.39	76.99	825.57	434.99	2,269.56	2,216.76	52.80	42.985		
8,000.00	6,027.00	5,650.00	5,577.60	48.57	24.39	76.99	825.57	434.99	2,318.85	2,265.80	53.05	43.714		
8,100.00	6,027.00	5,650.00	5,577.60	49.84	24.39	76.99	825.57	434.99	2,371.33	2,318.06	53.27	44.516		
8,200.00	6,027.00	5,650.00	5,577.60	51.15	24.39	76.99	825.57	434.99	2,426.80	2,373.34	53.47	45.388		
8,300.00	6,027.00	5,650.00	5,577.60	52.48	24.39	76.99	825.57	434.99	2,485.06	2,431.42	53.65	46.323		
8,400.00	6,027.00	5,650.00	5,577.60	53.85	24.39	76.99	825.57	434.99	2,545.92	2,492.11	53.80	47.318		
8,500.00	6,027.00	5,629.35	5,557.42	55.24	24.35	76.41	829.59	433.25	2,608.86	2,555.06	53.80	48.491		
8,600.00	6,027.00	5,625.10	5,553.24	56.65	24.34	76.29	830.33	432.89	2,674.22	2,620.32	53.90	49.617		
8,700.00	6,027.00	5,621.18	5,549.40	58.08	24.34	76.18	830.98	432.56	2,741.64	2,687.66	53.98	50.789		
8,800.00	6,027.00	5,600.00	5,528.52	59.54	24.30	75.59	834.05	430.77	2,811.23	2,757.29	53.93	52.125		
8,900.00	6,027.00	5,600.00	5,528.52	61.01	24.30	75.59	834.05	430.77	2,882.27	2,828.25	54.02	53.354		
9,000.00	6,027.00	5,600.00	5,528.52	62.50	24.30	75.59	834.05	430.77	2,954.98	2,900.88	54.10	54.621		
9,100.00	6,027.00	5,600.00	5,528.52	64.01	24.30	75.59	834.05	430.77	3,029.26	2,975.09	54.17	55.923		
9,200.00	6,027.00	5,600.00	5,528.52	65.53	24.30	75.59	834.05	430.77	3,104.97	3,050.74	54.23	57.257		
9,300.00	6,027.00	5,600.00	5,528.52	67.06	24.30	75.59	834.05	430.77	3,182.03	3,127.75	54.28	58.621		
9,400.00	6,027.00	5,600.00	5,528.52	68.61	24.30	75.59	834.05	430.77	3,260.34	3,206.01	54.33	60.013		
9,500.00	6,027.00	5,600.00	5,528.52	70.17	24.30	75.59	834.05	430.77	3,339.80	3,285.43	54.37	61.430		
9,600.00	6,027.00	5,600.00	5,528.52	71.73	24.30	75.59	834.05	430.77	3,420.34	3,365.94	54.40	62.870		
9,700.00	6,027.00	5,600.00	5,528.52	73.31	24.30	75.59	834.05	430.77	3,501.88	3,447.45	54.44	64.331		
9,800.00	6,027.00	5,600.00	5,528.52	74.90	24.30	75.59	834.05	430.77	3,584.36	3,529.90	54.46	65.813		
9,900.00	6,027.00	5,600.00	5,528.52	76.50	24.30	75.59	834.05	430.77	3,667.71	3,613.23	54.49	67.313		
10,000.00	6,027.00	5,600.00	5,528.52	78.10	24.30	75.59	834.05	430.77	3,751.88	3,697.37	54.51	68.829		
10,100.00	6,027.00	5,600.00	5,528.52	79.71	24.30	75.59	834.05	430.77	3,836.80	3,782.27	54.53	70.361		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	6,027.00	5,600.00	5,528.52	81.33	24.30	75.59	834.05	430.77	3,922.44	3,867.89	54.55	71.907	
10,300.00	6,027.00	5,600.00	5,528.52	82.96	24.30	75.59	834.05	430.77	4,008.74	3,954.17	54.57	73.466	
10,400.00	6,027.00	5,600.00	5,528.52	84.59	24.30	75.59	834.05	430.77	4,095.66	4,041.08	54.58	75.037	
10,500.00	6,027.00	5,600.00	5,528.52	86.23	24.30	75.59	834.05	430.77	4,183.17	4,128.58	54.60	76.620	
10,600.00	6,027.00	5,600.00	5,528.52	87.87	24.30	75.59	834.05	430.77	4,271.23	4,216.62	54.61	78.212	
10,700.00	6,027.00	5,600.00	5,528.52	89.52	24.30	75.59	834.05	430.77	4,359.80	4,305.18	54.63	79.813	
10,800.00	6,027.00	5,600.00	5,528.52	91.17	24.30	75.59	834.05	430.77	4,448.86	4,394.22	54.64	81.423	
10,900.00	6,027.00	5,577.13	5,505.86	92.83	24.24	74.95	836.48	428.83	4,537.90	4,483.37	54.53	83.220	
11,000.00	6,027.00	5,576.09	5,504.83	94.49	24.24	74.92	836.57	428.75	4,627.80	4,573.26	54.54	84.854	
11,100.00	6,027.00	5,575.09	5,503.84	96.16	24.24	74.89	836.66	428.66	4,718.10	4,663.55	54.55	86.494	
11,200.00	6,027.00	5,574.13	5,502.89	97.83	24.23	74.87	836.73	428.58	4,808.78	4,754.22	54.56	88.139	
11,300.00	6,027.00	5,573.21	5,501.97	99.50	24.23	74.84	836.81	428.50	4,899.83	4,845.26	54.57	89.789	
11,400.00	6,027.00	5,572.32	5,501.09	101.18	24.23	74.82	836.88	428.43	4,991.21	4,936.63	54.58	91.444	
11,500.00	6,027.00	5,550.00	5,478.89	102.86	24.17	74.19	838.19	426.53	5,083.34	5,028.86	54.48	93.302	
11,600.00	6,027.00	5,550.00	5,478.89	104.54	24.17	74.19	838.19	426.53	5,175.33	5,120.82	54.50	94.958	
11,700.00	6,027.00	5,550.00	5,478.89	106.23	24.17	74.19	838.19	426.53	5,267.60	5,213.08	54.52	96.617	
11,800.00	6,027.00	5,550.00	5,478.89	107.92	24.17	74.19	838.19	426.53	5,360.16	5,305.62	54.54	98.279	
11,900.00	6,027.00	5,550.00	5,478.89	109.61	24.17	74.19	838.19	426.53	5,452.97	5,398.41	54.56	99.943	
12,000.00	6,027.00	5,550.00	5,478.89	111.31	24.17	74.19	838.19	426.53	5,546.04	5,491.46	54.58	101.610	
12,100.00	6,027.00	5,550.00	5,478.89	113.00	24.17	74.19	838.19	426.53	5,639.34	5,584.74	54.60	103.279	
12,200.00	6,027.00	5,550.00	5,478.89	114.71	24.17	74.19	838.19	426.53	5,732.87	5,678.25	54.63	104.948	
12,300.00	6,027.00	5,550.00	5,478.89	116.41	24.17	74.19	838.19	426.53	5,826.62	5,771.97	54.65	106.619	
12,400.00	6,027.00	5,550.00	5,478.89	118.11	24.17	74.19	838.19	426.53	5,920.56	5,865.89	54.67	108.291	
12,500.00	6,027.00	5,550.00	5,478.89	119.82	24.17	74.19	838.19	426.53	6,014.71	5,960.01	54.70	109.964	
12,600.00	6,027.00	5,550.00	5,478.89	121.53	24.17	74.19	838.19	426.53	6,109.04	6,054.32	54.72	111.637	
12,700.00	6,027.00	5,550.00	5,478.89	123.24	24.17	74.19	838.19	426.53	6,203.55	6,148.80	54.75	113.310	
12,800.00	6,027.00	5,550.00	5,478.89	124.95	24.17	74.19	838.19	426.53	6,298.22	6,243.45	54.78	114.983	
12,900.00	6,027.00	5,550.00	5,478.89	126.66	24.17	74.19	838.19	426.53	6,393.06	6,338.26	54.80	116.655	
13,000.00	6,027.00	5,550.00	5,478.89	128.38	24.17	74.19	838.19	426.53	6,488.06	6,433.23	54.83	118.327	
13,100.00	6,027.00	5,550.00	5,478.89	130.10	24.17	74.19	838.19	426.53	6,583.20	6,528.34	54.86	119.998	
13,200.00	6,027.00	5,550.00	5,478.89	131.82	24.17	74.19	838.19	426.53	6,678.49	6,623.60	54.89	121.668	
13,300.00	6,027.00	5,550.00	5,478.89	133.54	24.17	74.19	838.19	426.53	6,773.91	6,718.98	54.92	123.337	
13,400.00	6,027.00	5,550.00	5,478.89	135.26	24.17	74.19	838.19	426.53	6,869.46	6,814.50	54.95	125.004	
13,500.00	6,027.00	5,550.00	5,478.89	136.98	24.17	74.19	838.19	426.53	6,965.13	6,910.15	54.99	126.670	
13,600.00	6,027.00	5,550.00	5,478.89	138.71	24.17	74.19	838.19	426.53	7,060.93	7,005.91	55.02	128.334	
13,700.00	6,027.00	5,550.00	5,478.89	140.43	24.17	74.19	838.19	426.53	7,156.84	7,101.79	55.05	129.997	
13,800.00	6,027.00	5,550.00	5,478.89	142.16	24.17	74.19	838.19	426.53	7,252.86	7,197.77	55.09	131.657	
13,900.00	6,027.00	5,550.00	5,478.89	143.89	24.17	74.19	838.19	426.53	7,348.99	7,293.86	55.12	133.316	
14,000.00	6,027.00	5,550.00	5,478.89	145.62	24.17	74.19	838.19	426.53	7,445.22	7,390.06	55.16	134.972	
14,100.00	6,027.00	5,550.00	5,478.89	147.35	24.17	74.19	838.19	426.53	7,541.55	7,486.35	55.20	136.625	
14,200.00	6,027.00	5,550.00	5,478.89	149.08	24.17	74.19	838.19	426.53	7,637.97	7,582.73	55.24	138.276	
14,300.00	6,027.00	5,550.00	5,478.89	150.81	24.17	74.19	838.19	426.53	7,734.48	7,679.20	55.28	139.925	
14,400.00	6,027.00	5,550.00	5,478.89	152.54	24.17	74.19	838.19	426.53	7,831.08	7,775.76	55.32	141.571	
14,500.00	6,027.00	5,550.00	5,478.89	154.28	24.17	74.19	838.19	426.53	7,927.77	7,872.41	55.36	143.214	
14,600.00	6,027.00	5,550.00	5,478.89	156.01	24.17	74.19	838.19	426.53	8,024.53	7,969.13	55.40	144.854	
14,700.00	6,027.00	5,550.00	5,478.89	157.75	24.17	74.19	838.19	426.53	8,121.37	8,065.94	55.44	146.491	
14,800.00	6,027.00	5,550.00	5,478.89	159.49	24.17	74.19	838.19	426.53	8,218.29	8,162.81	55.48	148.124	
14,900.00	6,027.00	5,550.00	5,478.89	161.22	24.17	74.19	838.19	426.53	8,315.29	8,259.76	55.53	149.755	
15,000.00	6,027.00	5,550.00	5,478.89	162.96	24.17	74.19	838.19	426.53	8,412.35	8,356.78	55.57	151.382	
15,100.00	6,027.00	5,550.00	5,478.89	164.70	24.17	74.19	838.19	426.53	8,509.48	8,453.87	55.62	153.006	
15,200.00	6,027.00	5,550.00	5,478.89	166.44	24.17	74.19	838.19	426.53	8,606.68	8,551.02	55.66	154.626	
15,300.00	6,027.00	5,550.00	5,478.89	168.18	24.17	74.19	838.19	426.53	8,703.94	8,648.23	55.71	156.243	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 16-T5N-R61W - STATE PH FENRIR F16 16S-10-05 - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.00	6,027.00	5,550.00	5,478.89	169.93	24.17	74.19	838.19	426.53	8,801.26	8,745.51	55.76	157.856	
15,500.00	6,027.00	5,550.00	5,478.89	171.67	24.17	74.19	838.19	426.53	8,898.64	8,842.84	55.80	159.465	
15,600.00	6,027.00	5,550.00	5,478.89	173.41	24.17	74.19	838.19	426.53	8,996.08	8,940.23	55.85	161.070	
15,700.00	6,027.00	5,550.00	5,478.89	175.15	24.17	74.19	838.19	426.53	9,093.57	9,037.67	55.90	162.672	
15,800.00	6,027.00	5,550.00	5,478.89	176.90	24.17	74.19	838.19	426.53	9,191.12	9,135.17	55.95	164.270	
15,900.00	6,027.00	5,550.00	5,478.89	178.64	24.17	74.19	838.19	426.53	9,288.72	9,232.72	56.00	165.863	
16,000.00	6,027.00	5,550.00	5,478.89	180.39	24.17	74.19	838.19	426.53	9,386.37	9,330.32	56.05	167.453	
16,100.00	6,027.00	5,550.00	5,478.89	182.13	24.17	74.19	838.19	426.53	9,484.07	9,427.97	56.11	169.038	
16,200.00	6,027.00	5,550.00	5,478.89	183.88	24.17	74.19	838.19	426.53	9,581.82	9,525.66	56.16	170.620	
16,300.00	6,027.00	5,550.00	5,478.89	185.63	24.17	74.19	838.19	426.53	9,679.61	9,623.40	56.21	172.197	
16,400.00	6,027.00	5,550.00	5,478.89	187.38	24.17	74.19	838.19	426.53	9,777.45	9,721.18	56.27	173.770	
16,500.00	6,027.00	5,550.00	5,478.89	189.12	24.17	74.19	838.19	426.53	9,875.33	9,819.01	56.32	175.338	
16,600.00	6,027.00	5,550.00	5,478.89	190.87	24.17	74.19	838.19	426.53	9,973.26	9,916.88	56.38	176.903	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - STATE PH FENRIR F16 16U-20-06 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	1.99	80.15	2.78	80.20					
100.00	100.00	100.00	100.00	0.27	0.27	1.99	80.15	2.78	80.20	79.66	0.54	149.146		
200.00	200.00	200.00	200.00	0.63	0.63	1.99	80.15	2.78	80.20	78.94	1.25	63.920		
300.00	300.00	300.00	300.00	0.99	0.99	1.99	80.15	2.78	80.20	78.23	1.97	40.676 CC, ES		
400.00	400.00	398.27	398.25	1.34	1.34	2.93	81.14	4.15	81.27	78.59	2.68	30.318		
500.00	500.00	496.30	496.15	1.70	1.69	5.58	84.11	8.22	84.59	81.21	3.39	24.957		
600.00	600.00	593.88	593.36	2.06	2.05	9.54	89.01	14.96	90.51	86.41	4.10	22.068		
700.00	700.00	690.77	689.56	2.42	2.41	14.23	95.81	24.30	99.40	94.58	4.81	20.651		
800.00	800.00	786.78	784.44	2.78	2.80	19.09	104.44	36.13	111.60	106.08	5.52	20.216 SF		
900.00	900.00	881.69	877.70	3.14	3.21	23.69	114.80	50.36	127.32	121.10	6.22	20.473		
1,000.00	999.98	975.00	968.77	3.49	3.63	117.25	126.75	66.77	147.40	140.51	6.90	21.373		
1,100.00	1,099.84	1,066.74	1,057.63	3.83	4.08	121.68	140.17	85.21	172.92	165.37	7.55	22.894		
1,200.00	1,199.45	1,161.13	1,148.78	4.19	4.57	125.86	154.60	105.01	202.43	194.18	8.24	24.555		
1,300.00	1,298.70	1,254.44	1,238.89	4.55	5.06	129.49	168.86	124.60	234.99	226.05	8.94	26.298		
1,400.00	1,397.47	1,346.57	1,327.86	4.94	5.55	132.64	182.95	143.93	270.64	261.01	9.63	28.112		
1,500.00	1,495.62	1,437.39	1,415.57	5.34	6.04	135.37	196.83	163.00	309.39	299.07	10.32	29.977		
1,600.00	1,593.06	1,526.81	1,501.92	5.78	6.53	137.74	210.50	181.76	351.23	340.21	11.02	31.878		
1,700.00	1,689.64	1,614.70	1,586.80	6.24	7.01	139.79	223.93	200.21	396.12	384.40	11.72	33.806		
1,800.00	1,785.27	1,700.97	1,670.11	6.75	7.49	141.61	237.12	218.32	444.02	431.60	12.42	35.738		
1,900.00	1,880.44	1,786.49	1,752.70	7.30	7.96	143.73	250.19	236.26	493.56	480.43	13.12	37.612		
2,000.00	1,975.60	1,872.01	1,835.28	7.86	8.44	145.47	263.26	254.21	543.52	529.69	13.83	39.311		
2,100.00	2,070.77	1,957.52	1,917.86	8.43	8.91	146.93	276.33	272.16	593.80	579.27	14.54	40.853		
2,200.00	2,165.93	2,043.04	2,000.45	9.02	9.39	148.16	289.40	290.11	644.33	629.09	15.25	42.257		
2,300.00	2,261.10	2,128.55	2,083.03	9.62	9.87	149.21	302.47	308.06	695.06	679.09	15.96	43.538		
2,400.00	2,356.26	2,214.07	2,165.61	10.23	10.35	150.12	315.54	326.00	745.93	729.25	16.68	44.710		
2,500.00	2,451.43	2,299.59	2,248.20	10.84	10.83	150.92	328.62	343.95	796.93	779.53	17.41	45.785		
2,600.00	2,546.59	2,385.10	2,330.78	11.46	11.31	151.62	341.69	361.90	848.03	829.90	18.13	46.774		
2,700.00	2,641.76	2,470.62	2,413.36	12.09	11.79	152.24	354.76	379.85	899.22	880.36	18.86	47.687		
2,800.00	2,736.92	2,556.13	2,495.94	12.72	12.28	152.80	367.83	397.79	950.47	930.89	19.58	48.531		
2,900.00	2,832.09	2,641.65	2,578.53	13.35	12.76	153.30	380.90	415.74	1,001.79	981.47	20.31	49.313		
3,000.00	2,927.25	2,727.17	2,661.11	13.99	13.24	153.75	393.97	433.69	1,053.16	1,032.11	21.05	50.040		
3,100.00	3,022.42	2,812.68	2,743.69	14.63	13.73	154.16	407.04	451.64	1,104.57	1,082.79	21.78	50.718		
3,200.00	3,117.58	2,898.20	2,826.28	15.27	14.21	154.53	420.11	469.59	1,156.02	1,133.50	22.51	51.349		
3,300.00	3,212.75	2,983.71	2,908.86	15.91	14.70	154.88	433.18	487.53	1,207.50	1,184.25	23.25	51.940		
3,400.00	3,307.91	3,069.23	2,991.44	16.56	15.18	155.19	446.26	505.48	1,259.01	1,235.02	23.98	52.494		
3,500.00	3,403.08	3,154.75	3,074.03	17.20	15.66	155.48	459.33	523.43	1,310.54	1,285.82	24.72	53.013		
3,600.00	3,498.24	3,240.26	3,156.61	17.85	16.15	155.75	472.40	541.38	1,362.10	1,336.64	25.46	53.502		
3,700.00	3,593.41	3,325.78	3,239.19	18.50	16.63	155.99	485.47	559.32	1,413.68	1,387.49	26.20	53.961		
3,800.00	3,688.57	3,411.29	3,321.78	19.15	17.12	156.22	498.54	577.27	1,465.28	1,438.34	26.94	54.395		
3,900.00	3,783.74	3,496.81	3,404.36	19.81	17.61	156.44	511.61	595.22	1,516.90	1,489.22	27.68	54.805		
4,000.00	3,878.90	3,582.33	3,486.94	20.46	18.09	156.64	524.68	613.17	1,568.52	1,540.10	28.42	55.192		
4,100.00	3,974.07	3,667.84	3,569.53	21.11	18.58	156.83	537.75	631.12	1,620.17	1,591.00	29.16	55.559		
4,200.00	4,069.23	3,753.36	3,652.11	21.77	19.06	157.00	550.83	649.06	1,671.82	1,641.92	29.90	55.907		
4,300.00	4,164.40	3,838.87	3,734.69	22.42	19.55	157.17	563.90	667.01	1,723.48	1,692.84	30.65	56.237		
4,400.00	4,259.56	3,924.39	3,817.28	23.08	20.04	157.33	576.97	684.96	1,775.16	1,743.77	31.39	56.551		
4,500.00	4,354.73	4,009.91	3,899.86	23.74	20.52	157.47	590.04	702.91	1,826.84	1,794.71	32.13	56.849		
4,600.00	4,449.89	4,095.42	3,982.44	24.39	21.01	157.61	603.11	720.86	1,878.54	1,845.66	32.88	57.134		
4,700.00	4,545.06	4,180.94	4,065.03	25.05	21.49	157.75	616.18	738.80	1,930.24	1,896.61	33.63	57.405		
4,800.00	4,640.22	4,266.45	4,147.61	25.71	21.98	157.87	629.25	756.75	1,981.94	1,947.57	34.37	57.663		
4,900.00	4,735.39	4,351.97	4,230.19	26.37	22.47	157.99	642.32	774.70	2,033.66	1,998.54	35.12	57.910		
5,000.00	4,830.55	4,437.48	4,312.78	27.03	22.95	158.10	655.39	792.65	2,085.38	2,049.51	35.86	58.146		
5,100.00	4,925.72	4,523.00	4,395.36	27.69	23.44	158.21	668.47	810.59	2,137.10	2,100.49	36.61	58.372		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - STATE PH FENRIR F16 16U-20-06 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	4,608.52	4,477.94	28.35	23.93	158.31	681.54	828.54	2,188.83	2,151.48	37.36	58.589		
5,300.00	5,116.05	4,694.03	4,560.53	29.01	24.41	158.41	694.61	846.49	2,240.57	2,202.46	38.11	58.796		
5,400.00	5,211.21	4,779.55	4,643.11	29.67	24.90	158.50	707.68	864.44	2,292.31	2,253.45	38.86	58.994		
5,500.00	5,306.38	4,865.06	4,725.69	30.33	25.39	158.59	720.75	882.39	2,344.06	2,304.45	39.61	59.185		
5,600.00	5,401.54	4,950.58	4,808.28	30.99	25.88	158.68	733.82	900.33	2,395.80	2,355.45	40.36	59.368		
5,700.00	5,496.71	5,036.12	4,890.88	31.65	26.36	153.87	746.90	918.29	2,447.51	2,406.40	41.11	59.542		
5,800.00	5,591.13	5,122.65	4,974.45	32.30	26.86	122.18	760.12	936.45	2,495.61	2,453.71	41.90	59.565		
5,900.00	5,682.22	5,208.80	5,057.65	32.92	27.35	101.96	773.29	954.53	2,537.10	2,494.37	42.74	59.364		
6,000.00	5,767.23	5,291.96	5,137.95	33.50	27.82	90.12	786.00	971.98	2,571.25	2,527.64	43.61	58.965		
6,100.00	5,843.56	5,369.60	5,212.92	34.04	28.26	83.14	797.87	988.28	2,597.72	2,553.23	44.49	58.391		
6,200.00	5,908.90	5,439.35	5,280.29	34.53	28.66	79.08	808.53	1,002.92	2,616.54	2,571.17	45.37	57.669		
6,300.00	5,961.25	5,499.10	5,337.99	34.99	29.00	76.92	817.66	1,015.46	2,628.01	2,581.77	46.25	56.826		
6,400.00	5,999.04	5,553.53	5,390.56	35.42	29.31	76.21	825.91	1,026.88	2,632.63	2,585.47	47.16	55.829		
6,500.00	6,021.11	5,628.56	5,463.63	35.83	29.69	77.22	831.33	1,042.78	2,630.63	2,582.35	48.27	54.493		
6,600.00	6,027.00	5,638.32	5,473.16	36.24	29.73	77.77	831.31	1,044.85	2,623.29	2,574.36	48.93	53.611		
6,700.00	6,027.00	5,637.02	5,471.90	36.68	29.73	77.74	831.33	1,044.58	2,616.62	2,567.06	49.56	52.797		
6,800.00	6,027.00	5,636.20	5,471.09	37.20	29.72	77.72	831.33	1,044.40	2,613.76	2,563.53	50.23	52.032		
6,824.95	6,027.00	5,636.04	5,470.94	37.34	29.72	77.72	831.33	1,044.37	2,613.64	2,563.23	50.42	51.841		
6,900.00	6,027.00	5,635.63	5,470.53	37.80	29.72	77.71	831.34	1,044.28	2,614.72	2,563.78	50.95	51.324		
7,000.00	6,027.00	5,635.20	5,470.12	38.47	29.72	77.70	831.34	1,044.19	2,619.51	2,567.82	51.69	50.681		
7,100.00	6,027.00	5,634.88	5,469.81	39.21	29.72	77.69	831.34	1,044.12	2,628.09	2,575.64	52.45	50.108		
7,200.00	6,027.00	5,634.63	5,469.56	40.02	29.72	77.69	831.34	1,044.07	2,640.43	2,587.21	53.22	49.611		
7,300.00	6,027.00	5,634.42	5,469.36	40.89	29.72	77.68	831.34	1,044.02	2,656.48	2,602.48	54.00	49.193		
7,400.00	6,027.00	5,634.25	5,469.19	41.83	29.71	77.68	831.34	1,043.99	2,676.18	2,621.40	54.78	48.855		
7,500.00	6,027.00	5,634.11	5,469.05	42.83	29.71	77.67	831.34	1,043.96	2,699.44	2,643.89	55.55	48.598		
7,600.00	6,027.00	5,633.98	5,468.93	43.88	29.71	77.67	831.34	1,043.93	2,726.17	2,669.87	56.30	48.423		
7,700.00	6,027.00	5,633.88	5,468.83	44.99	29.71	77.67	831.34	1,043.91	2,756.27	2,699.24	57.03	48.329		
7,800.00	6,027.00	5,633.79	5,468.74	46.14	29.71	77.67	831.34	1,043.89	2,789.64	2,731.90	57.74	48.313		
7,900.00	6,027.00	5,650.00	5,484.58	47.33	29.79	78.02	831.08	1,047.34	2,826.28	2,767.70	58.58	48.248		
8,000.00	6,027.00	5,650.00	5,484.58	48.57	29.79	78.02	831.08	1,047.34	2,865.83	2,806.59	59.23	48.383		
8,100.00	6,027.00	5,650.00	5,484.58	49.84	29.79	78.02	831.08	1,047.34	2,908.27	2,848.42	59.85	48.589		
8,200.00	6,027.00	5,650.00	5,484.58	51.15	29.79	78.02	831.08	1,047.34	2,953.50	2,893.05	60.44	48.864		
8,300.00	6,027.00	5,650.00	5,484.58	52.48	29.79	78.02	831.08	1,047.34	3,001.37	2,940.37	61.00	49.203		
8,400.00	6,027.00	5,650.00	5,484.58	53.85	29.79	78.02	831.08	1,047.34	3,051.77	2,990.25	61.52	49.605		
8,500.00	6,027.00	5,650.00	5,484.58	55.24	29.79	78.02	831.08	1,047.34	3,104.58	3,042.56	62.01	50.064		
8,600.00	6,027.00	5,650.00	5,484.58	56.65	29.79	78.02	831.08	1,047.34	3,159.67	3,097.20	62.47	50.579		
8,700.00	6,027.00	5,650.00	5,484.58	58.08	29.79	78.02	831.08	1,047.34	3,216.92	3,154.02	62.90	51.146		
8,800.00	6,027.00	5,650.00	5,484.58	59.54	29.79	78.02	831.08	1,047.34	3,276.23	3,212.93	63.29	51.762		
8,900.00	6,027.00	5,650.00	5,484.58	61.01	29.79	78.02	831.08	1,047.34	3,337.48	3,273.81	63.66	52.424		
9,000.00	6,027.00	5,650.00	5,484.58	62.50	29.79	78.02	831.08	1,047.34	3,400.56	3,336.56	64.00	53.130		
9,100.00	6,027.00	5,650.00	5,484.58	64.01	29.79	78.02	831.08	1,047.34	3,465.39	3,401.07	64.32	53.877		
9,200.00	6,027.00	5,650.00	5,484.58	65.53	29.79	78.02	831.08	1,047.34	3,531.86	3,467.24	64.61	54.662		
9,300.00	6,027.00	5,650.00	5,484.58	67.06	29.79	78.02	831.08	1,047.34	3,599.87	3,534.99	64.88	55.482		
9,400.00	6,027.00	5,650.00	5,484.58	68.61	29.79	78.02	831.08	1,047.34	3,669.36	3,604.22	65.13	56.337		
9,500.00	6,027.00	5,650.00	5,484.58	70.17	29.79	78.02	831.08	1,047.34	3,740.22	3,674.86	65.36	57.223		
9,600.00	6,027.00	5,650.00	5,484.58	71.73	29.79	78.02	831.08	1,047.34	3,812.39	3,746.82	65.57	58.139		
9,700.00	6,027.00	5,650.00	5,484.58	73.31	29.79	78.02	831.08	1,047.34	3,885.80	3,820.03	65.77	59.083		
9,800.00	6,027.00	5,650.00	5,484.58	74.90	29.79	78.02	831.08	1,047.34	3,960.37	3,894.42	65.95	60.053		
9,900.00	6,027.00	5,650.00	5,484.58	76.50	29.79	78.02	831.08	1,047.34	4,036.04	3,969.93	66.11	61.047		
10,000.00	6,027.00	5,650.00	5,484.58	78.10	29.79	78.02	831.08	1,047.34	4,112.75	4,046.48	66.27	62.064		
10,100.00	6,027.00	5,650.00	5,484.58	79.71	29.79	78.02	831.08	1,047.34	4,190.44	4,124.03	66.41	63.103		
10,200.00	6,027.00	5,650.00	5,484.58	81.33	29.79	78.02	831.08	1,047.34	4,269.06	4,202.52	66.54	64.162		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 16-T5N-R61W - STATE PH FENRIR F16 16U-20-06 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	5,650.00	5,484.58	82.96	29.79	78.02	831.08	1,047.34	4,348.56	4,281.90	66.65	65.240		
10,400.00	6,027.00	5,650.00	5,484.58	84.59	29.79	78.02	831.08	1,047.34	4,428.89	4,362.12	66.76	66.336		
10,500.00	6,027.00	5,650.00	5,484.58	86.23	29.79	78.02	831.08	1,047.34	4,510.00	4,443.14	66.87	67.448		
10,600.00	6,027.00	5,650.00	5,484.58	87.87	29.79	78.02	831.08	1,047.34	4,591.86	4,524.90	66.96	68.576		
10,700.00	6,027.00	5,650.00	5,484.58	89.52	29.79	78.02	831.08	1,047.34	4,674.43	4,607.38	67.05	69.719		
10,800.00	6,027.00	5,650.00	5,484.58	91.17	29.79	78.02	831.08	1,047.34	4,757.67	4,690.54	67.13	70.875		
10,900.00	6,027.00	5,650.00	5,484.58	92.83	29.79	78.02	831.08	1,047.34	4,841.54	4,774.33	67.20	72.045		
11,000.00	6,027.00	5,650.00	5,484.58	94.49	29.79	78.02	831.08	1,047.34	4,926.01	4,858.74	67.27	73.227		
11,100.00	6,027.00	5,650.00	5,484.58	96.16	29.79	78.02	831.08	1,047.34	5,011.05	4,943.72	67.33	74.420		
11,200.00	6,027.00	5,650.00	5,484.58	97.83	29.79	78.02	831.08	1,047.34	5,096.64	5,029.24	67.39	75.624		
11,300.00	6,027.00	5,650.00	5,484.58	99.50	29.79	78.02	831.08	1,047.34	5,182.74	5,115.29	67.45	76.837		
11,400.00	6,027.00	5,650.00	5,484.58	101.18	29.79	78.02	831.08	1,047.34	5,269.34	5,201.83	67.50	78.061		
11,500.00	6,027.00	5,650.00	5,484.58	102.86	29.79	78.02	831.08	1,047.34	5,356.40	5,288.85	67.55	79.293		
11,600.00	6,027.00	5,650.00	5,484.58	104.54	29.79	78.02	831.08	1,047.34	5,443.90	5,376.31	67.60	80.533		
11,700.00	6,027.00	5,650.00	5,484.58	106.23	29.79	78.02	831.08	1,047.34	5,531.83	5,464.19	67.64	81.781		
11,800.00	6,027.00	5,650.00	5,484.58	107.92	29.79	78.02	831.08	1,047.34	5,620.17	5,552.48	67.68	83.037		
11,900.00	6,027.00	5,650.00	5,484.58	109.61	29.79	78.02	831.08	1,047.34	5,708.88	5,641.16	67.72	84.299		
12,000.00	6,027.00	5,650.00	5,484.58	111.31	29.79	78.02	831.08	1,047.34	5,797.97	5,730.21	67.76	85.567		
12,100.00	6,027.00	5,650.00	5,484.58	113.00	29.79	78.02	831.08	1,047.34	5,887.40	5,819.61	67.79	86.842		
12,200.00	6,027.00	5,650.00	5,484.58	114.71	29.79	78.02	831.08	1,047.34	5,977.17	5,909.35	67.83	88.122		
12,300.00	6,027.00	5,650.00	5,484.58	116.41	29.79	78.02	831.08	1,047.34	6,067.26	5,999.40	67.86	89.407		
12,400.00	6,027.00	5,650.00	5,484.58	118.11	29.79	78.02	831.08	1,047.34	6,157.66	6,089.77	67.89	90.697		
12,500.00	6,027.00	5,650.00	5,484.58	119.82	29.79	78.02	831.08	1,047.34	6,248.35	6,180.43	67.92	91.992		
12,600.00	6,027.00	5,650.00	5,484.58	121.53	29.79	78.02	831.08	1,047.34	6,339.32	6,271.37	67.95	93.290		
12,700.00	6,027.00	5,650.00	5,484.58	123.24	29.79	78.02	831.08	1,047.34	6,430.55	6,362.57	67.98	94.593		
12,800.00	6,027.00	5,650.00	5,484.58	124.95	29.79	78.02	831.08	1,047.34	6,522.05	6,454.04	68.01	95.899		
12,900.00	6,027.00	5,650.00	5,484.58	126.66	29.79	78.02	831.08	1,047.34	6,613.79	6,545.75	68.04	97.209		
13,000.00	6,027.00	5,650.00	5,484.58	128.38	29.79	78.02	831.08	1,047.34	6,705.77	6,637.70	68.06	98.521		
13,100.00	6,027.00	5,650.00	5,484.58	130.10	29.79	78.02	831.08	1,047.34	6,797.97	6,729.88	68.09	99.836		
13,200.00	6,027.00	5,650.00	5,484.58	131.82	29.79	78.02	831.08	1,047.34	6,890.39	6,822.27	68.12	101.154		
13,300.00	6,027.00	5,650.00	5,484.58	133.54	29.79	78.02	831.08	1,047.34	6,983.02	6,914.87	68.14	102.474		
13,400.00	6,027.00	5,650.00	5,484.58	135.26	29.79	78.02	831.08	1,047.34	7,075.85	7,007.68	68.17	103.796		
13,500.00	6,027.00	5,650.00	5,484.58	136.98	29.79	78.02	831.08	1,047.34	7,168.87	7,100.68	68.20	105.120		
13,600.00	6,027.00	5,650.00	5,484.58	138.71	29.79	78.02	831.08	1,047.34	7,262.08	7,193.86	68.22	106.446		
13,700.00	6,027.00	5,650.00	5,484.58	140.43	29.79	78.02	831.08	1,047.34	7,355.47	7,287.22	68.25	107.773		
13,800.00	6,027.00	5,650.00	5,484.58	142.16	29.79	78.02	831.08	1,047.34	7,449.03	7,380.75	68.28	109.102		
13,900.00	6,027.00	5,650.00	5,484.58	143.89	29.79	78.02	831.08	1,047.34	7,542.75	7,474.45	68.30	110.432		
14,000.00	6,027.00	5,650.00	5,484.58	145.62	29.79	78.02	831.08	1,047.34	7,636.63	7,568.30	68.33	111.762		
14,100.00	6,027.00	5,650.00	5,484.58	147.35	29.79	78.02	831.08	1,047.34	7,730.67	7,662.31	68.36	113.094		
14,200.00	6,027.00	5,650.00	5,484.58	149.08	29.79	78.02	831.08	1,047.34	7,824.85	7,756.47	68.38	114.426		
14,300.00	6,027.00	5,650.00	5,484.58	150.81	29.79	78.02	831.08	1,047.34	7,919.18	7,850.77	68.41	115.759		
14,400.00	6,027.00	5,650.00	5,484.58	152.54	29.79	78.02	831.08	1,047.34	8,013.65	7,945.21	68.44	117.092		
14,500.00	6,027.00	5,650.00	5,484.58	154.28	29.79	78.02	831.08	1,047.34	8,108.24	8,039.78	68.47	118.425		
14,600.00	6,027.00	5,650.00	5,484.58	156.01	29.79	78.02	831.08	1,047.34	8,202.97	8,134.47	68.50	119.759		
14,700.00	6,027.00	5,650.00	5,484.58	157.75	29.79	78.02	831.08	1,047.34	8,297.82	8,229.29	68.52	121.093		
14,800.00	6,027.00	5,650.00	5,484.58	159.49	29.79	78.02	831.08	1,047.34	8,392.79	8,324.23	68.55	122.426		
14,900.00	6,027.00	5,650.00	5,484.58	161.22	29.79	78.02	831.08	1,047.34	8,487.87	8,419.29	68.58	123.759		
15,000.00	6,027.00	5,650.00	5,484.58	162.96	29.79	78.02	831.08	1,047.34	8,583.07	8,514.45	68.61	125.092		
15,100.00	6,027.00	5,650.00	5,484.58	164.70	29.79	78.02	831.08	1,047.34	8,678.37	8,609.73	68.64	126.424		
15,200.00	6,027.00	5,650.00	5,484.58	166.44	29.79	78.02	831.08	1,047.34	8,773.78	8,705.10	68.68	127.756		
15,300.00	6,027.00	5,650.00	5,484.58	168.18	29.79	78.02	831.08	1,047.34	8,869.29	8,800.58	68.71	129.087		
15,400.00	6,027.00	5,650.00	5,484.58	169.93	29.79	78.02	831.08	1,047.34	8,964.90	8,896.16	68.74	130.418		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 16-T5N-R61W - STATE PH FENRIR F16 16U-20-06 - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	5,650.00	5,484.58	171.67	29.79	78.02	831.08	1,047.34	9,060.60	8,991.83	68.77	131.747	
15,600.00	6,027.00	5,650.00	5,484.58	173.41	29.79	78.02	831.08	1,047.34	9,156.39	9,087.59	68.81	133.076	
15,700.00	6,027.00	5,650.00	5,484.58	175.15	29.79	78.02	831.08	1,047.34	9,252.28	9,183.44	68.84	134.403	
15,800.00	6,027.00	5,650.00	5,484.58	176.90	29.79	78.02	831.08	1,047.34	9,348.25	9,279.37	68.87	135.730	
15,900.00	6,027.00	5,650.00	5,484.58	178.64	29.79	78.02	831.08	1,047.34	9,444.30	9,375.39	68.91	137.055	
16,000.00	6,027.00	5,650.00	5,484.58	180.39	29.79	78.02	831.08	1,047.34	9,540.43	9,471.49	68.94	138.379	
16,100.00	6,027.00	5,650.00	5,484.58	182.13	29.79	78.02	831.08	1,047.34	9,636.65	9,567.67	68.98	139.702	
16,200.00	6,027.00	5,650.00	5,484.58	183.88	29.79	78.02	831.08	1,047.34	9,732.94	9,663.92	69.02	141.023	
16,300.00	6,027.00	5,650.00	5,484.58	185.63	29.79	78.02	831.08	1,047.34	9,829.30	9,760.25	69.05	142.343	
16,400.00	6,027.00	5,650.00	5,484.58	187.38	29.79	78.02	831.08	1,047.34	9,925.74	9,856.65	69.09	143.661	
16,500.00	6,027.00	5,650.00	5,484.58	189.12	29.79	78.02	831.08	1,047.34	10,022.24	9,953.11	69.13	144.978	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT FURROW 1 (NO CSG) - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
100.00	100.00	18.00	18.00	0.27	0.43	-118.06	-3,085.04	-5,787.77	6,558.64	6,557.94	0.70	9,366.620	
200.00	200.00	118.00	118.00	0.63	2.77	-118.06	-3,085.04	-5,787.77	6,558.64	6,555.24	3.40	1,929.213	
300.00	300.00	218.00	218.00	0.99	4.85	-118.06	-3,085.04	-5,787.77	6,558.64	6,552.80	5.84	1,123.516	
400.00	400.00	318.00	318.00	1.34	6.89	-118.06	-3,085.04	-5,787.77	6,558.64	6,550.41	8.23	796.585	
500.00	500.00	418.00	418.00	1.70	8.91	-118.06	-3,085.04	-5,787.77	6,558.64	6,548.02	10.62	617.747	
600.00	600.00	518.00	518.00	2.06	10.93	-118.06	-3,085.04	-5,787.77	6,558.64	6,545.64	13.00	504.693	
700.00	700.00	618.00	618.00	2.42	12.95	-118.06	-3,085.04	-5,787.77	6,558.64	6,543.27	15.37	426.695	
800.00	800.00	718.00	718.00	2.78	14.97	-118.06	-3,085.04	-5,787.77	6,558.64	6,540.89	17.74	369.613	
900.00	900.00	818.00	818.00	3.14	16.98	-118.06	-3,085.04	-5,787.77	6,558.64	6,538.52	20.12	326.018	
1,000.00	999.98	917.98	917.98	3.49	18.99	-28.83	-3,085.04	-5,787.77	6,557.11	6,534.63	22.48	291.676	
1,100.00	1,099.84	1,017.84	1,017.84	3.83	21.00	-28.89	-3,085.04	-5,787.77	6,552.52	6,527.69	24.84	263.826	
1,200.00	1,199.45	1,117.45	1,117.45	4.19	23.01	-29.00	-3,085.04	-5,787.77	6,544.89	6,517.70	27.19	240.701	
1,300.00	1,298.70	1,216.70	1,216.70	4.55	25.01	-29.16	-3,085.04	-5,787.77	6,534.22	6,504.68	29.54	221.184	
1,400.00	1,397.47	1,315.47	1,315.47	4.94	26.99	-29.36	-3,085.04	-5,787.77	6,520.53	6,488.65	31.89	204.481	
1,500.00	1,495.62	1,413.62	1,413.62	5.34	28.97	-29.61	-3,085.04	-5,787.77	6,503.85	6,469.62	34.23	190.013	
1,600.00	1,593.06	1,511.06	1,511.06	5.78	30.93	-29.91	-3,085.04	-5,787.77	6,484.20	6,447.64	36.56	177.347	
1,700.00	1,689.64	1,607.64	1,607.64	6.24	32.87	-30.25	-3,085.04	-5,787.77	6,461.61	6,422.72	38.89	166.156	
1,800.00	1,785.27	1,703.27	1,703.27	6.75	34.80	-30.63	-3,085.04	-5,787.77	6,436.13	6,394.92	41.21	156.175	
1,900.00	1,880.44	1,798.44	1,798.44	7.30	36.71	-30.77	-3,085.04	-5,787.77	6,409.39	6,365.86	43.53	147.251	
2,000.00	1,975.60	1,893.60	1,893.60	7.86	38.62	-30.91	-3,085.04	-5,787.77	6,382.68	6,336.83	45.85	139.201	
2,100.00	2,070.77	1,988.77	1,988.77	8.43	40.54	-31.05	-3,085.04	-5,787.77	6,356.01	6,307.82	48.19	131.905	
2,200.00	2,165.93	2,083.93	2,083.93	9.02	42.45	-31.19	-3,085.04	-5,787.77	6,329.37	6,278.85	50.53	125.266	
2,300.00	2,261.10	2,179.10	2,179.10	9.62	44.37	-31.34	-3,085.04	-5,787.77	6,302.78	6,249.90	52.87	119.202	
2,400.00	2,356.26	2,274.26	2,274.26	10.23	46.28	-31.48	-3,085.04	-5,787.77	6,276.22	6,220.99	55.23	113.641	
2,500.00	2,451.43	2,369.43	2,369.43	10.84	48.20	-31.63	-3,085.04	-5,787.77	6,249.70	6,192.11	57.59	108.527	
2,600.00	2,546.59	2,464.59	2,464.59	11.46	50.11	-31.77	-3,085.04	-5,787.77	6,223.21	6,163.26	59.95	103.807	
2,700.00	2,641.76	2,559.76	2,559.76	12.09	52.02	-31.92	-3,085.04	-5,787.77	6,196.77	6,134.45	62.32	99.439	
2,800.00	2,736.92	2,654.92	2,654.92	12.72	53.94	-32.07	-3,085.04	-5,787.77	6,170.36	6,105.68	64.69	95.386	
2,900.00	2,832.09	2,750.09	2,750.09	13.35	55.85	-32.22	-3,085.04	-5,787.77	6,144.00	6,076.94	67.06	91.615	
3,000.00	2,927.25	2,845.25	2,845.25	13.99	57.77	-32.37	-3,085.04	-5,787.77	6,117.68	6,048.24	69.44	88.098	
3,100.00	3,022.42	2,940.42	2,940.42	14.63	59.68	-32.52	-3,085.04	-5,787.77	6,091.39	6,019.57	71.82	84.811	
3,200.00	3,117.58	3,035.58	3,035.58	15.27	61.59	-32.68	-3,085.04	-5,787.77	6,065.15	5,990.95	74.21	81.732	
3,300.00	3,212.75	3,130.75	3,130.75	15.91	63.51	-32.83	-3,085.04	-5,787.77	6,038.96	5,962.36	76.60	78.842	
3,400.00	3,307.91	3,225.91	3,225.91	16.56	65.42	-32.99	-3,085.04	-5,787.77	6,012.80	5,933.81	78.99	76.125	
3,500.00	3,403.08	3,321.08	3,321.08	17.20	67.33	-33.15	-3,085.04	-5,787.77	5,986.69	5,905.31	81.38	73.566	
3,600.00	3,498.24	3,416.24	3,416.24	17.85	69.25	-33.30	-3,085.04	-5,787.77	5,960.62	5,876.84	83.77	71.151	
3,700.00	3,593.41	3,511.41	3,511.41	18.50	71.16	-33.47	-3,085.04	-5,787.77	5,934.59	5,848.42	86.17	68.869	
3,800.00	3,688.57	3,606.57	3,606.57	19.15	73.08	-33.63	-3,085.04	-5,787.77	5,908.62	5,820.04	88.57	66.710	
3,900.00	3,783.74	3,701.74	3,701.74	19.81	74.99	-33.79	-3,085.04	-5,787.77	5,882.68	5,791.71	90.97	64.663	
4,000.00	3,878.90	3,796.90	3,796.90	20.46	76.90	-33.95	-3,085.04	-5,787.77	5,856.80	5,763.42	93.38	62.720	
4,100.00	3,974.07	3,892.07	3,892.07	21.11	78.82	-34.12	-3,085.04	-5,787.77	5,830.96	5,735.17	95.79	60.874	
4,200.00	4,069.23	3,987.23	3,987.23	21.77	80.73	-34.29	-3,085.04	-5,787.77	5,805.16	5,706.97	98.20	59.117	
4,300.00	4,164.40	4,082.40	4,082.40	22.42	82.65	-34.46	-3,085.04	-5,787.77	5,779.42	5,678.81	100.61	57.444	
4,400.00	4,259.56	4,177.56	4,177.56	23.08	84.56	-34.63	-3,085.04	-5,787.77	5,753.72	5,650.70	103.02	55.849	
4,500.00	4,354.73	4,272.73	4,272.73	23.74	86.47	-34.80	-3,085.04	-5,787.77	5,728.08	5,622.64	105.44	54.325	
4,600.00	4,449.89	4,367.89	4,367.89	24.39	88.39	-34.97	-3,085.04	-5,787.77	5,702.48	5,594.62	107.86	52.870	
4,700.00	4,545.06	4,463.06	4,463.06	25.05	90.30	-35.15	-3,085.04	-5,787.77	5,676.94	5,566.66	110.28	51.478	
4,800.00	4,640.22	4,558.22	4,558.22	25.71	92.21	-35.32	-3,085.04	-5,787.77	5,651.44	5,538.74	112.70	50.144	
4,900.00	4,735.39	4,653.39	4,653.39	26.37	94.13	-35.50	-3,085.04	-5,787.77	5,626.00	5,510.87	115.13	48.867	
5,000.00	4,830.55	4,748.55	4,748.55	27.03	96.04	-35.68	-3,085.04	-5,787.77	5,600.61	5,483.06	117.56	47.642	
5,100.00	4,925.72	4,843.72	4,843.72	27.69	97.96	-35.86	-3,085.04	-5,787.77	5,575.28	5,455.29	119.99	46.466	
5,200.00	5,020.88	4,938.88	4,938.88	28.35	99.87	-36.05	-3,085.04	-5,787.77	5,550.00	5,427.58	122.42	45.336	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT FURROW 1 (NO CSG) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,034.05	5,034.05	29.01	101.78	-36.23	-3,085.04	-5,787.77	5,524.77	5,399.92	124.85	44.250		
5,400.00	5,211.21	5,129.21	5,129.21	29.67	103.70	-36.42	-3,085.04	-5,787.77	5,499.60	5,372.31	127.29	43.206		
5,500.00	5,306.38	5,224.38	5,224.38	30.33	105.61	-36.60	-3,085.04	-5,787.77	5,474.49	5,344.76	129.73	42.200		
5,600.00	5,401.54	5,319.54	5,319.54	30.99	107.52	-36.79	-3,085.04	-5,787.77	5,449.43	5,317.26	132.17	41.231		
5,700.00	5,496.71	5,414.71	5,414.71	31.65	109.44	-41.40	-3,085.04	-5,787.77	5,424.53	5,289.91	134.61	40.297		
5,800.00	5,591.13	5,509.13	5,509.13	32.30	111.34	-70.17	-3,085.04	-5,787.77	5,406.13	5,268.99	137.13	39.422		
5,900.00	5,682.22	5,600.22	5,600.22	32.92	113.17	-88.00	-3,085.04	-5,787.77	5,398.64	5,258.92	139.72	38.640		
5,915.98	5,696.29	5,614.29	5,614.29	33.02	113.45	-90.00	-3,085.04	-5,787.77	5,398.50	5,258.37	140.13	38.526 CC, ES		
6,000.00	5,767.23	5,685.23	5,685.23	33.50	114.88	-97.80	-3,085.04	-5,787.77	5,402.58	5,260.29	142.29	37.969		
6,100.00	5,843.56	5,761.56	5,761.56	34.04	116.41	-102.80	-3,085.04	-5,787.77	5,418.14	5,273.36	144.79	37.421		
6,200.00	5,908.90	5,826.90	5,826.90	34.53	117.73	-104.65	-3,085.04	-5,787.77	5,445.17	5,298.03	147.14	37.007		
6,300.00	5,961.25	5,879.25	5,879.25	34.99	118.78	-104.04	-3,085.04	-5,787.77	5,483.09	5,333.81	149.28	36.730		
6,400.00	5,999.04	5,917.04	5,917.04	35.42	119.54	-101.19	-3,085.04	-5,787.77	5,530.95	5,379.80	151.15	36.593 SF		
6,500.00	6,021.11	5,939.11	5,939.11	35.83	119.98	-96.08	-3,085.04	-5,787.77	5,587.35	5,434.67	152.68	36.594		
6,600.00	6,027.00	5,945.00	5,945.00	36.24	120.10	-90.00	-3,085.04	-5,787.77	5,650.50	5,496.65	153.85	36.728		
6,700.00	6,027.00	5,945.00	5,945.00	36.68	120.10	-90.00	-3,085.04	-5,787.77	5,716.30	5,561.43	154.87	36.910		
6,800.00	6,027.00	5,945.00	5,945.00	37.20	120.10	-90.00	-3,085.04	-5,787.77	5,783.09	5,627.19	155.90	37.096		
6,900.00	6,027.00	5,945.00	5,945.00	37.80	120.10	-90.00	-3,085.04	-5,787.77	5,850.83	5,693.90	156.92	37.285		
7,000.00	6,027.00	5,945.00	5,945.00	38.47	120.10	-90.00	-3,085.04	-5,787.77	5,919.47	5,761.53	157.94	37.479		
7,100.00	6,027.00	5,945.00	5,945.00	39.21	120.10	-90.00	-3,085.04	-5,787.77	5,989.01	5,830.05	158.96	37.677		
7,200.00	6,027.00	5,945.00	5,945.00	40.02	120.10	-90.00	-3,085.04	-5,787.77	6,059.39	5,899.43	159.96	37.881		
7,300.00	6,027.00	5,945.00	5,945.00	40.89	120.10	-90.00	-3,085.04	-5,787.77	6,130.60	5,969.65	160.95	38.089		
7,400.00	6,027.00	5,945.00	5,945.00	41.83	120.10	-90.00	-3,085.04	-5,787.77	6,202.60	6,040.67	161.93	38.303		
7,500.00	6,027.00	5,945.00	5,945.00	42.83	120.10	-90.00	-3,085.04	-5,787.77	6,275.37	6,112.47	162.90	38.523		
7,600.00	6,027.00	5,945.00	5,945.00	43.88	120.10	-90.00	-3,085.04	-5,787.77	6,348.88	6,185.03	163.85	38.748		
7,700.00	6,027.00	5,945.00	5,945.00	44.99	120.10	-90.00	-3,085.04	-5,787.77	6,423.11	6,258.32	164.79	38.978		
7,800.00	6,027.00	5,945.00	5,945.00	46.14	120.10	-90.00	-3,085.04	-5,787.77	6,498.03	6,332.32	165.71	39.214		
7,900.00	6,027.00	5,945.00	5,945.00	47.33	120.10	-90.00	-3,085.04	-5,787.77	6,573.61	6,407.00	166.61	39.456		
8,000.00	6,027.00	5,945.00	5,945.00	48.57	120.10	-90.00	-3,085.04	-5,787.77	6,649.84	6,482.35	167.49	39.702		
8,100.00	6,027.00	5,945.00	5,945.00	49.84	120.10	-90.00	-3,085.04	-5,787.77	6,726.69	6,558.33	168.36	39.954		
8,200.00	6,027.00	5,945.00	5,945.00	51.15	120.10	-90.00	-3,085.04	-5,787.77	6,804.15	6,634.94	169.21	40.211		
8,300.00	6,027.00	5,945.00	5,945.00	52.48	120.10	-90.00	-3,085.04	-5,787.77	6,882.18	6,712.14	170.05	40.473		
8,400.00	6,027.00	5,945.00	5,945.00	53.85	120.10	-90.00	-3,085.04	-5,787.77	6,960.78	6,789.92	170.86	40.739		
8,500.00	6,027.00	5,945.00	5,945.00	55.24	120.10	-90.00	-3,085.04	-5,787.77	7,039.92	6,868.26	171.66	41.011		
8,600.00	6,027.00	5,945.00	5,945.00	56.65	120.10	-90.00	-3,085.04	-5,787.77	7,119.59	6,947.14	172.44	41.287		
8,700.00	6,027.00	5,945.00	5,945.00	58.08	120.10	-90.00	-3,085.04	-5,787.77	7,199.76	7,026.55	173.21	41.567		
8,800.00	6,027.00	5,945.00	5,945.00	59.54	120.10	-90.00	-3,085.04	-5,787.77	7,280.42	7,106.47	173.96	41.852		
8,900.00	6,027.00	5,945.00	5,945.00	61.01	120.10	-90.00	-3,085.04	-5,787.77	7,361.56	7,186.87	174.69	42.141		
9,000.00	6,027.00	5,945.00	5,945.00	62.50	120.10	-90.00	-3,085.04	-5,787.77	7,443.16	7,267.75	175.41	42.434		
9,100.00	6,027.00	5,945.00	5,945.00	64.01	120.10	-90.00	-3,085.04	-5,787.77	7,525.20	7,349.09	176.11	42.731		
9,200.00	6,027.00	5,945.00	5,945.00	65.53	120.10	-90.00	-3,085.04	-5,787.77	7,607.67	7,430.88	176.79	43.031		
9,300.00	6,027.00	5,945.00	5,945.00	67.06	120.10	-90.00	-3,085.04	-5,787.77	7,690.56	7,513.09	177.46	43.336		
9,400.00	6,027.00	5,945.00	5,945.00	68.61	120.10	-90.00	-3,085.04	-5,787.77	7,773.85	7,595.73	178.12	43.644		
9,500.00	6,027.00	5,945.00	5,945.00	70.17	120.10	-90.00	-3,085.04	-5,787.77	7,857.53	7,678.76	178.76	43.955		
9,600.00	6,027.00	5,945.00	5,945.00	71.73	120.10	-90.00	-3,085.04	-5,787.77	7,941.58	7,762.19	179.39	44.270		
9,700.00	6,027.00	5,945.00	5,945.00	73.31	120.10	-90.00	-3,085.04	-5,787.77	8,026.01	7,846.00	180.00	44.588		
9,800.00	6,027.00	5,945.00	5,945.00	74.90	120.10	-90.00	-3,085.04	-5,787.77	8,110.78	7,930.18	180.60	44.909		
9,900.00	6,027.00	5,945.00	5,945.00	76.50	120.10	-90.00	-3,085.04	-5,787.77	8,195.90	8,014.71	181.19	45.233		
10,000.00	6,027.00	5,945.00	5,945.00	78.10	120.10	-90.00	-3,085.04	-5,787.77	8,281.35	8,099.59	181.77	45.560		
10,100.00	6,027.00	5,945.00	5,945.00	79.71	120.10	-90.00	-3,085.04	-5,787.77	8,367.13	8,184.80	182.33	45.890		
10,200.00	6,027.00	5,945.00	5,945.00	81.33	120.10	-90.00	-3,085.04	-5,787.77	8,453.22	8,270.34	182.88	46.223		
10,300.00	6,027.00	5,945.00	5,945.00	82.96	120.10	-90.00	-3,085.04	-5,787.77	8,539.61	8,356.19	183.42	46.558		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 17-T5N-R61W - ABND VERT FURROW 1 (NO CSG) - OWB - Design #1		Offset Site Error:		0.00 usft				
Survey Program: 0-INC																		Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance														
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Minimum	Separation	Warning								
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor									
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)										
10,400.00	6,027.00	5,945.00	5,945.00	84.59	120.10	-90.00	-3,085.04	-5,787.77	8,626.29	8,442.35	183.95	46.896									
10,500.00	6,027.00	5,945.00	5,945.00	86.23	120.10	-90.00	-3,085.04	-5,787.77	8,713.26	8,528.80	184.46	47.236									
10,600.00	6,027.00	5,945.00	5,945.00	87.87	120.10	-90.00	-3,085.04	-5,787.77	8,800.51	8,615.54	184.97	47.579									
10,700.00	6,027.00	5,945.00	5,945.00	89.52	120.10	-90.00	-3,085.04	-5,787.77	8,888.02	8,702.56	185.46	47.924									
10,800.00	6,027.00	5,945.00	5,945.00	91.17	120.10	-90.00	-3,085.04	-5,787.77	8,975.80	8,789.86	185.95	48.271									
10,900.00	6,027.00	5,945.00	5,945.00	92.83	120.10	-90.00	-3,085.04	-5,787.77	9,063.83	8,877.41	186.42	48.620									
11,000.00	6,027.00	5,945.00	5,945.00	94.49	120.10	-90.00	-3,085.04	-5,787.77	9,152.11	8,965.22	186.89	48.972									
11,100.00	6,027.00	5,945.00	5,945.00	96.16	120.10	-90.00	-3,085.04	-5,787.77	9,240.62	9,053.28	187.34	49.325									
11,200.00	6,027.00	5,945.00	5,945.00	97.83	120.10	-90.00	-3,085.04	-5,787.77	9,329.37	9,141.58	187.79	49.681									
11,300.00	6,027.00	5,945.00	5,945.00	99.50	120.10	-90.00	-3,085.04	-5,787.77	9,418.34	9,230.12	188.22	50.038									
11,400.00	6,027.00	5,945.00	5,945.00	101.18	120.10	-90.00	-3,085.04	-5,787.77	9,507.53	9,318.88	188.65	50.397									
11,500.00	6,027.00	5,945.00	5,945.00	102.86	120.10	-90.00	-3,085.04	-5,787.77	9,596.93	9,407.86	189.07	50.758									
11,600.00	6,027.00	5,945.00	5,945.00	104.54	120.10	-90.00	-3,085.04	-5,787.77	9,686.55	9,497.06	189.48	51.121									
11,700.00	6,027.00	5,945.00	5,945.00	106.23	120.10	-90.00	-3,085.04	-5,787.77	9,776.36	9,586.47	189.89	51.485									
11,800.00	6,027.00	5,945.00	5,945.00	107.92	120.10	-90.00	-3,085.04	-5,787.77	9,866.37	9,676.09	190.28	51.851									
11,900.00	6,027.00	5,945.00	5,945.00	109.61	120.10	-90.00	-3,085.04	-5,787.77	9,956.57	9,765.90	190.67	52.219									
12,000.00	6,027.00	5,945.00	5,945.00	111.31	120.10	-90.00	-3,085.04	-5,787.77	10,046.95	9,855.90	191.05	52.588									
12,100.00	6,027.00	5,945.00	5,945.00	113.00	120.10	-90.00	-3,085.04	-5,787.77	10,137.52	9,946.09	191.43	52.958									

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT PRONGHORN 11-17 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	29.00	29.00	0.27	0.68	-92.31	-250.60	-6,199.27	6,204.34	6,203.39	0.95	6,542.042		
200.00	200.00	129.00	129.00	0.63	2.95	-92.31	-250.60	-6,199.27	6,204.34	6,200.76	3.58	1,733.988		
300.00	300.00	229.00	229.00	0.99	5.03	-92.31	-250.60	-6,199.27	6,204.34	6,198.32	6.02	1,031.274		
400.00	400.00	329.00	329.00	1.34	7.07	-92.31	-250.60	-6,199.27	6,204.34	6,195.92	8.41	737.528		
500.00	500.00	429.00	429.00	1.70	9.09	-92.31	-250.60	-6,199.27	6,204.34	6,193.54	10.80	574.678		
600.00	600.00	529.00	529.00	2.06	11.11	-92.31	-250.60	-6,199.27	6,204.34	6,191.16	13.17	470.928		
700.00	700.00	629.00	629.00	2.42	13.13	-92.31	-250.60	-6,199.27	6,204.34	6,188.79	15.55	398.983		
800.00	800.00	729.00	729.00	2.78	15.15	-92.31	-250.60	-6,199.27	6,204.34	6,186.41	17.92	346.140		
900.00	900.00	829.00	829.00	3.14	17.16	-92.31	-250.60	-6,199.27	6,204.34	6,184.04	20.30	305.674		
1,000.00	999.98	928.98	928.98	3.49	19.17	-3.06	-250.60	-6,199.27	6,202.59	6,179.93	22.66	273.717		
1,100.00	1,099.84	1,028.84	1,028.84	3.83	21.18	-3.07	-250.60	-6,199.27	6,197.37	6,172.35	25.02	247.735		
1,200.00	1,199.45	1,128.45	1,128.45	4.19	23.19	-3.08	-250.60	-6,199.27	6,188.66	6,161.30	27.37	226.116		
1,300.00	1,298.70	1,227.70	1,227.70	4.55	25.19	-3.10	-250.60	-6,199.27	6,176.50	6,146.78	29.72	207.841		
1,400.00	1,397.47	1,326.47	1,326.47	4.94	27.17	-3.13	-250.60	-6,199.27	6,160.88	6,128.82	32.06	192.182		
1,500.00	1,495.62	1,424.62	1,424.62	5.34	29.15	-3.16	-250.60	-6,199.27	6,141.82	6,107.44	34.39	178.608		
1,600.00	1,593.06	1,522.06	1,522.06	5.78	31.11	-3.20	-250.60	-6,199.27	6,119.36	6,082.66	36.70	166.721		
1,700.00	1,689.64	1,618.64	1,618.64	6.24	33.05	-3.24	-250.60	-6,199.27	6,093.52	6,054.51	39.01	156.219		
1,800.00	1,785.27	1,714.27	1,714.27	6.75	34.98	-3.29	-250.60	-6,199.27	6,064.33	6,023.04	41.30	146.854		
1,900.00	1,880.44	1,809.44	1,809.44	7.30	36.89	-3.30	-250.60	-6,199.27	6,033.66	5,990.09	43.57	138.495		
2,000.00	1,975.60	1,904.60	1,904.60	7.86	38.80	-3.32	-250.60	-6,199.27	6,002.99	5,957.15	45.84	130.950		
2,100.00	2,070.77	1,999.77	1,999.77	8.43	40.72	-3.34	-250.60	-6,199.27	5,972.32	5,924.20	48.12	124.109		
2,200.00	2,165.93	2,094.93	2,094.93	9.02	42.63	-3.36	-250.60	-6,199.27	5,941.65	5,891.24	50.41	117.878		
2,300.00	2,261.10	2,190.10	2,190.10	9.62	44.55	-3.37	-250.60	-6,199.27	5,910.98	5,858.28	52.69	112.181		
2,400.00	2,356.26	2,285.26	2,285.26	10.23	46.46	-3.39	-250.60	-6,199.27	5,880.31	5,825.33	54.98	106.952		
2,500.00	2,451.43	2,380.43	2,380.43	10.84	48.38	-3.41	-250.60	-6,199.27	5,849.64	5,792.37	57.27	102.138		
2,600.00	2,546.59	2,475.59	2,475.59	11.46	50.29	-3.43	-250.60	-6,199.27	5,818.97	5,759.40	59.57	97.690		
2,700.00	2,641.76	2,570.76	2,570.76	12.09	52.20	-3.45	-250.60	-6,199.27	5,788.30	5,726.44	61.86	93.570		
2,800.00	2,736.92	2,665.92	2,665.92	12.72	54.12	-3.46	-250.60	-6,199.27	5,757.63	5,693.47	64.16	89.742		
2,900.00	2,832.09	2,761.09	2,761.09	13.35	56.03	-3.48	-250.60	-6,199.27	5,726.97	5,660.51	66.46	86.177		
3,000.00	2,927.25	2,856.25	2,856.25	13.99	57.95	-3.50	-250.60	-6,199.27	5,696.30	5,627.54	68.76	82.848		
3,100.00	3,022.42	2,951.42	2,951.42	14.63	59.86	-3.52	-250.60	-6,199.27	5,665.63	5,594.58	71.06	79.734		
3,200.00	3,117.58	3,046.58	3,046.58	15.27	61.77	-3.54	-250.60	-6,199.27	5,634.97	5,561.61	73.36	76.814		
3,300.00	3,212.75	3,141.75	3,141.75	15.91	63.69	-3.56	-250.60	-6,199.27	5,604.30	5,528.64	75.66	74.071		
3,400.00	3,307.91	3,236.91	3,236.91	16.56	65.60	-3.58	-250.60	-6,199.27	5,573.64	5,495.67	77.97	71.489		
3,500.00	3,403.08	3,332.08	3,332.08	17.20	67.52	-3.60	-250.60	-6,199.27	5,542.97	5,462.70	80.27	69.054		
3,600.00	3,498.24	3,427.24	3,427.24	17.85	69.43	-3.62	-250.60	-6,199.27	5,512.31	5,429.74	82.58	66.755		
3,700.00	3,593.41	3,522.41	3,522.41	18.50	71.34	-3.64	-250.60	-6,199.27	5,481.65	5,396.77	84.88	64.580		
3,800.00	3,688.57	3,617.57	3,617.57	19.15	73.26	-3.66	-250.60	-6,199.27	5,450.99	5,363.80	87.19	62.520		
3,900.00	3,783.74	3,712.74	3,712.74	19.81	75.17	-3.68	-250.60	-6,199.27	5,420.33	5,330.83	89.50	60.565		
4,000.00	3,878.90	3,807.90	3,807.90	20.46	77.08	-3.70	-250.60	-6,199.27	5,389.67	5,297.86	91.80	58.709		
4,100.00	3,974.07	3,903.07	3,903.07	21.11	79.00	-3.72	-250.60	-6,199.27	5,359.01	5,264.89	94.11	56.943		
4,200.00	4,069.23	3,998.23	3,998.23	21.77	80.91	-3.74	-250.60	-6,199.27	5,328.35	5,231.93	96.42	55.262		
4,300.00	4,164.40	4,093.40	4,093.40	22.42	82.83	-3.76	-250.60	-6,199.27	5,297.69	5,198.96	98.73	53.658		
4,400.00	4,259.56	4,188.56	4,188.56	23.08	84.74	-3.79	-250.60	-6,199.27	5,267.03	5,165.99	101.04	52.128		
4,500.00	4,354.73	4,283.73	4,283.73	23.74	86.65	-3.81	-250.60	-6,199.27	5,236.37	5,133.02	103.35	50.666		
4,600.00	4,449.89	4,378.89	4,378.89	24.39	88.57	-3.83	-250.60	-6,199.27	5,205.72	5,100.06	105.66	49.268		
4,700.00	4,545.06	4,474.06	4,474.06	25.05	90.48	-3.85	-250.60	-6,199.27	5,175.06	5,067.09	107.97	47.930		
4,800.00	4,640.22	4,569.22	4,569.22	25.71	92.40	-3.88	-250.60	-6,199.27	5,144.41	5,034.12	110.28	46.647		
4,900.00	4,735.39	4,664.39	4,664.39	26.37	94.31	-3.90	-250.60	-6,199.27	5,113.75	5,001.16	112.59	45.417		
5,000.00	4,830.55	4,759.55	4,759.55	27.03	96.22	-3.92	-250.60	-6,199.27	5,083.10	4,968.19	114.91	44.237		
5,100.00	4,925.72	4,854.72	4,854.72	27.69	98.14	-3.95	-250.60	-6,199.27	5,052.45	4,935.23	117.22	43.103		
5,200.00	5,020.88	4,949.88	4,949.88	28.35	100.05	-3.97	-250.60	-6,199.27	5,021.79	4,902.26	119.53	42.012		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT PRONGHORN 11-17 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,045.05	5,045.05	29.01	101.96	-4.00	-250.60	-6,199.27	4,991.14	4,869.30	121.84	40.963		
5,400.00	5,211.21	5,140.21	5,140.21	29.67	103.88	-4.02	-250.60	-6,199.27	4,960.49	4,836.33	124.16	39.953		
5,500.00	5,306.38	5,235.38	5,235.38	30.33	105.79	-4.05	-250.60	-6,199.27	4,929.84	4,803.37	126.47	38.980		
5,600.00	5,401.54	5,330.54	5,330.54	30.99	107.71	-4.07	-250.60	-6,199.27	4,899.19	4,770.41	128.79	38.042		
5,700.00	5,496.71	5,425.71	5,425.71	31.65	109.62	-8.67	-250.60	-6,199.27	4,868.56	4,737.46	131.10	37.136		
5,800.00	5,591.13	5,520.13	5,520.13	32.30	111.52	-38.94	-250.60	-6,199.27	4,838.77	4,705.36	133.41	36.270		
5,900.00	5,682.22	5,611.22	5,611.22	32.92	113.35	-58.99	-250.60	-6,199.27	4,811.15	4,675.48	135.67	35.463		
6,000.00	5,767.23	5,696.23	5,696.23	33.50	115.06	-71.57	-250.60	-6,199.27	4,786.85	4,649.01	137.84	34.727		
6,100.00	5,843.56	5,772.56	5,772.56	34.04	116.59	-79.82	-250.60	-6,199.27	4,767.04	4,627.13	139.91	34.072		
6,200.00	5,908.90	5,837.90	5,837.90	34.53	117.91	-85.34	-250.60	-6,199.27	4,752.87	4,611.01	141.86	33.504		
6,300.00	5,961.25	5,890.25	5,890.25	34.99	118.96	-88.83	-250.60	-6,199.27	4,745.29	4,601.62	143.67	33.028		
6,353.59	5,983.40	5,912.40	5,912.40	35.21	119.41	-90.00	-250.60	-6,199.27	4,744.21	4,599.62	144.59	32.811	CC, ES	
6,400.00	5,999.04	5,928.04	5,928.04	35.42	119.72	-90.64	-250.60	-6,199.27	4,745.04	4,599.70	145.33	32.650		
6,500.00	6,021.11	5,950.11	5,950.11	35.83	120.17	-90.92	-250.60	-6,199.27	4,752.46	4,605.67	146.79	32.375		
6,600.00	6,027.00	5,956.00	5,956.00	36.24	120.28	-90.00	-250.60	-6,199.27	4,767.46	4,619.45	148.02	32.209		
6,700.00	6,027.00	5,956.00	5,956.00	36.68	120.28	-90.00	-250.60	-6,199.27	4,786.42	4,637.21	149.21	32.078		
6,800.00	6,027.00	5,956.00	5,956.00	37.20	120.28	-90.00	-250.60	-6,199.27	4,807.39	4,656.88	150.50	31.942		
6,900.00	6,027.00	5,956.00	5,956.00	37.80	120.28	-90.00	-250.60	-6,199.27	4,830.33	4,678.46	151.86	31.807		
7,000.00	6,027.00	5,956.00	5,956.00	38.47	120.28	-90.00	-250.60	-6,199.27	4,855.22	4,701.94	153.29	31.674		
7,100.00	6,027.00	5,956.00	5,956.00	39.21	120.28	-90.00	-250.60	-6,199.27	4,882.04	4,727.29	154.75	31.548		
7,200.00	6,027.00	5,956.00	5,956.00	40.02	120.28	-90.00	-250.60	-6,199.27	4,910.74	4,754.50	156.25	31.429		
7,300.00	6,027.00	5,956.00	5,956.00	40.89	120.28	-90.00	-250.60	-6,199.27	4,941.31	4,783.54	157.77	31.320		
7,400.00	6,027.00	5,956.00	5,956.00	41.83	120.28	-90.00	-250.60	-6,199.27	4,973.69	4,814.39	159.30	31.222		
7,500.00	6,027.00	5,956.00	5,956.00	42.83	120.28	-90.00	-250.60	-6,199.27	5,007.87	4,847.03	160.84	31.136		
7,600.00	6,027.00	5,956.00	5,956.00	43.88	120.28	-90.00	-250.60	-6,199.27	5,043.80	4,881.42	162.38	31.063		
7,700.00	6,027.00	5,956.00	5,956.00	44.99	120.28	-90.00	-250.60	-6,199.27	5,081.44	4,917.53	163.91	31.002		
7,800.00	6,027.00	5,956.00	5,956.00	46.14	120.28	-90.00	-250.60	-6,199.27	5,120.75	4,955.33	165.43	30.955		
7,900.00	6,027.00	5,956.00	5,956.00	47.33	120.28	-90.00	-250.60	-6,199.27	5,161.71	4,994.78	166.93	30.921		
8,000.00	6,027.00	5,956.00	5,956.00	48.57	120.28	-90.00	-250.60	-6,199.27	5,204.26	5,035.84	168.42	30.901		
8,100.00	6,027.00	5,956.00	5,956.00	49.84	120.28	-90.00	-250.60	-6,199.27	5,248.38	5,078.49	169.88	30.894	SF	
8,200.00	6,027.00	5,956.00	5,956.00	51.15	120.28	-90.00	-250.60	-6,199.27	5,294.01	5,122.69	171.32	30.901		
8,300.00	6,027.00	5,956.00	5,956.00	52.48	120.28	-90.00	-250.60	-6,199.27	5,341.13	5,168.39	172.74	30.920		
8,400.00	6,027.00	5,956.00	5,956.00	53.85	120.28	-90.00	-250.60	-6,199.27	5,389.69	5,215.56	174.13	30.952		
8,500.00	6,027.00	5,956.00	5,956.00	55.24	120.28	-90.00	-250.60	-6,199.27	5,439.66	5,264.17	175.49	30.997		
8,600.00	6,027.00	5,956.00	5,956.00	56.65	120.28	-90.00	-250.60	-6,199.27	5,490.99	5,314.17	176.83	31.053		
8,700.00	6,027.00	5,956.00	5,956.00	58.08	120.28	-90.00	-250.60	-6,199.27	5,543.66	5,365.53	178.13	31.122		
8,800.00	6,027.00	5,956.00	5,956.00	59.54	120.28	-90.00	-250.60	-6,199.27	5,597.61	5,418.21	179.40	31.201		
8,900.00	6,027.00	5,956.00	5,956.00	61.01	120.28	-90.00	-250.60	-6,199.27	5,652.82	5,472.17	180.65	31.292		
9,000.00	6,027.00	5,956.00	5,956.00	62.50	120.28	-90.00	-250.60	-6,199.27	5,709.24	5,527.39	181.86	31.394		
9,100.00	6,027.00	5,956.00	5,956.00	64.01	120.28	-90.00	-250.60	-6,199.27	5,766.85	5,583.81	183.04	31.506		
9,200.00	6,027.00	5,956.00	5,956.00	65.53	120.28	-90.00	-250.60	-6,199.27	5,825.61	5,641.41	184.19	31.628		
9,300.00	6,027.00	5,956.00	5,956.00	67.06	120.28	-90.00	-250.60	-6,199.27	5,885.48	5,700.16	185.32	31.759		
9,400.00	6,027.00	5,956.00	5,956.00	68.61	120.28	-90.00	-250.60	-6,199.27	5,946.42	5,760.01	186.41	31.900		
9,500.00	6,027.00	5,956.00	5,956.00	70.17	120.28	-90.00	-250.60	-6,199.27	6,008.42	5,820.94	187.47	32.050		
9,600.00	6,027.00	5,956.00	5,956.00	71.73	120.28	-90.00	-250.60	-6,199.27	6,071.42	5,882.92	188.50	32.209		
9,700.00	6,027.00	5,956.00	5,956.00	73.31	120.28	-90.00	-250.60	-6,199.27	6,135.41	5,945.90	189.51	32.375		
9,800.00	6,027.00	5,956.00	5,956.00	74.90	120.28	-90.00	-250.60	-6,199.27	6,200.35	6,009.87	190.48	32.550		
9,900.00	6,027.00	5,956.00	5,956.00	76.50	120.28	-90.00	-250.60	-6,199.27	6,266.22	6,074.79	191.43	32.733		
10,000.00	6,027.00	5,956.00	5,956.00	78.10	120.28	-90.00	-250.60	-6,199.27	6,332.98	6,140.62	192.36	32.923		
10,100.00	6,027.00	5,956.00	5,956.00	79.71	120.28	-90.00	-250.60	-6,199.27	6,400.60	6,207.35	193.25	33.121		
10,200.00	6,027.00	5,956.00	5,956.00	81.33	120.28	-90.00	-250.60	-6,199.27	6,469.07	6,274.95	194.12	33.325		
10,300.00	6,027.00	5,956.00	5,956.00	82.96	120.28	-90.00	-250.60	-6,199.27	6,538.35	6,343.38	194.97	33.536		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT PRONGHORN 11-17 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,956.00	5,956.00	84.59	120.28	-90.00	-250.60	-6,199.27	6,608.41	6,412.62	195.79	33.753		
10,500.00	6,027.00	5,956.00	5,956.00	86.23	120.28	-90.00	-250.60	-6,199.27	6,679.24	6,482.65	196.58	33.976		
10,600.00	6,027.00	5,956.00	5,956.00	87.87	120.28	-90.00	-250.60	-6,199.27	6,750.80	6,553.44	197.36	34.206		
10,700.00	6,027.00	5,956.00	5,956.00	89.52	120.28	-90.00	-250.60	-6,199.27	6,823.08	6,624.97	198.11	34.441		
10,800.00	6,027.00	5,956.00	5,956.00	91.17	120.28	-90.00	-250.60	-6,199.27	6,896.05	6,697.21	198.84	34.682		
10,900.00	6,027.00	5,956.00	5,956.00	92.83	120.28	-90.00	-250.60	-6,199.27	6,969.70	6,770.15	199.55	34.928		
11,000.00	6,027.00	5,956.00	5,956.00	94.49	120.28	-90.00	-250.60	-6,199.27	7,043.99	6,843.75	200.23	35.179		
11,100.00	6,027.00	5,956.00	5,956.00	96.16	120.28	-90.00	-250.60	-6,199.27	7,118.91	6,918.01	200.90	35.435		
11,200.00	6,027.00	5,956.00	5,956.00	97.83	120.28	-90.00	-250.60	-6,199.27	7,194.44	6,992.89	201.55	35.695		
11,300.00	6,027.00	5,956.00	5,956.00	99.50	120.28	-90.00	-250.60	-6,199.27	7,270.57	7,068.38	202.18	35.961		
11,400.00	6,027.00	5,956.00	5,956.00	101.18	120.28	-90.00	-250.60	-6,199.27	7,347.26	7,144.47	202.79	36.231		
11,500.00	6,027.00	5,956.00	5,956.00	102.86	120.28	-90.00	-250.60	-6,199.27	7,424.51	7,221.12	203.39	36.504		
11,600.00	6,027.00	5,956.00	5,956.00	104.54	120.28	-90.00	-250.60	-6,199.27	7,502.30	7,298.33	203.96	36.783		
11,700.00	6,027.00	5,956.00	5,956.00	106.23	120.28	-90.00	-250.60	-6,199.27	7,580.61	7,376.08	204.52	37.065		
11,800.00	6,027.00	5,956.00	5,956.00	107.92	120.28	-90.00	-250.60	-6,199.27	7,659.42	7,454.35	205.07	37.350		
11,900.00	6,027.00	5,956.00	5,956.00	109.61	120.28	-90.00	-250.60	-6,199.27	7,738.72	7,533.12	205.60	37.640		
12,000.00	6,027.00	5,956.00	5,956.00	111.31	120.28	-90.00	-250.60	-6,199.27	7,818.50	7,612.39	206.11	37.933		
12,100.00	6,027.00	5,956.00	5,956.00	113.00	120.28	-90.00	-250.60	-6,199.27	7,898.74	7,692.12	206.61	38.230		
12,200.00	6,027.00	5,956.00	5,956.00	114.71	120.28	-90.00	-250.60	-6,199.27	7,979.42	7,772.32	207.10	38.529		
12,300.00	6,027.00	5,956.00	5,956.00	116.41	120.28	-90.00	-250.60	-6,199.27	8,060.54	7,852.96	207.57	38.832		
12,400.00	6,027.00	5,956.00	5,956.00	118.11	120.28	-90.00	-250.60	-6,199.27	8,142.07	7,934.04	208.03	39.138		
12,500.00	6,027.00	5,956.00	5,956.00	119.82	120.28	-90.00	-250.60	-6,199.27	8,224.02	8,015.54	208.48	39.447		
12,600.00	6,027.00	5,956.00	5,956.00	121.53	120.28	-90.00	-250.60	-6,199.27	8,306.36	8,097.44	208.92	39.759		
12,700.00	6,027.00	5,956.00	5,956.00	123.24	120.28	-90.00	-250.60	-6,199.27	8,389.08	8,179.74	209.34	40.074		
12,800.00	6,027.00	5,956.00	5,956.00	124.95	120.28	-90.00	-250.60	-6,199.27	8,472.18	8,262.43	209.75	40.391		
12,900.00	6,027.00	5,956.00	5,956.00	126.66	120.28	-90.00	-250.60	-6,199.27	8,555.64	8,345.49	210.15	40.711		
13,000.00	6,027.00	5,956.00	5,956.00	128.38	120.28	-90.00	-250.60	-6,199.27	8,639.45	8,428.90	210.54	41.034		
13,100.00	6,027.00	5,956.00	5,956.00	130.10	120.28	-90.00	-250.60	-6,199.27	8,723.60	8,512.67	210.92	41.359		
13,200.00	6,027.00	5,956.00	5,956.00	131.82	120.28	-90.00	-250.60	-6,199.27	8,808.08	8,596.79	211.30	41.686		
13,300.00	6,027.00	5,956.00	5,956.00	133.54	120.28	-90.00	-250.60	-6,199.27	8,892.89	8,681.23	211.66	42.016		
13,400.00	6,027.00	5,956.00	5,956.00	135.26	120.28	-90.00	-250.60	-6,199.27	8,978.00	8,765.99	212.01	42.347		
13,500.00	6,027.00	5,956.00	5,956.00	136.98	120.28	-90.00	-250.60	-6,199.27	9,063.42	8,851.07	212.35	42.681		
13,600.00	6,027.00	5,956.00	5,956.00	138.71	120.28	-90.00	-250.60	-6,199.27	9,149.14	8,936.45	212.69	43.017		
13,700.00	6,027.00	5,956.00	5,956.00	140.43	120.28	-90.00	-250.60	-6,199.27	9,235.14	9,022.13	213.01	43.355		
13,800.00	6,027.00	5,956.00	5,956.00	142.16	120.28	-90.00	-250.60	-6,199.27	9,321.43	9,108.10	213.33	43.695		
13,900.00	6,027.00	5,956.00	5,956.00	143.89	120.28	-90.00	-250.60	-6,199.27	9,407.98	9,194.34	213.64	44.037		
14,000.00	6,027.00	5,956.00	5,956.00	145.62	120.28	-90.00	-250.60	-6,199.27	9,494.80	9,280.86	213.94	44.380		
14,100.00	6,027.00	5,956.00	5,956.00	147.35	120.28	-90.00	-250.60	-6,199.27	9,581.88	9,367.64	214.24	44.725		
14,200.00	6,027.00	5,956.00	5,956.00	149.08	120.28	-90.00	-250.60	-6,199.27	9,669.20	9,454.68	214.53	45.072		
14,300.00	6,027.00	5,956.00	5,956.00	150.81	120.28	-90.00	-250.60	-6,199.27	9,756.77	9,541.96	214.81	45.421		
14,400.00	6,027.00	5,956.00	5,956.00	152.54	120.28	-90.00	-250.60	-6,199.27	9,844.58	9,629.49	215.08	45.771		
14,500.00	6,027.00	5,956.00	5,956.00	154.28	120.28	-90.00	-250.60	-6,199.27	9,932.61	9,717.26	215.35	46.123		
14,600.00	6,027.00	5,956.00	5,956.00	156.01	120.28	-90.00	-250.60	-6,199.27	10,020.87	9,805.26	215.61	46.476		
14,700.00	6,027.00	5,956.00	5,956.00	157.75	120.28	-90.00	-250.60	-6,199.27	10,109.35	9,893.48	215.87	46.831		
14,800.00	6,027.00	5,956.00	5,956.00	159.49	120.28	-90.00	-250.60	-6,199.27	10,198.05	9,981.93	216.12	47.187		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT PRONGHORN 31-17 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	43.00	43.00	0.27	1.03	-93.51	-214.70	-3,500.66	3,507.24	3,505.94	1.30	2,699.278		
200.00	200.00	143.00	143.00	0.63	3.29	-93.51	-214.70	-3,500.66	3,507.24	3,503.32	3.92	894.318		
300.00	300.00	243.00	243.00	0.99	5.36	-93.51	-214.70	-3,500.66	3,507.24	3,500.89	6.35	552.534		
400.00	400.00	343.00	343.00	1.34	7.40	-93.51	-214.70	-3,500.66	3,507.24	3,498.50	8.74	401.287		
500.00	500.00	443.00	443.00	1.70	9.42	-93.51	-214.70	-3,500.66	3,507.24	3,496.12	11.12	315.339		
600.00	600.00	543.00	543.00	2.06	11.44	-93.51	-214.70	-3,500.66	3,507.24	3,493.74	13.50	259.803		
700.00	700.00	643.00	643.00	2.42	13.45	-93.51	-214.70	-3,500.66	3,507.24	3,491.37	15.87	220.933		
800.00	800.00	743.00	743.00	2.78	15.47	-93.51	-214.70	-3,500.66	3,507.24	3,488.99	18.25	192.196		
900.00	900.00	843.00	843.00	3.14	17.48	-93.51	-214.70	-3,500.66	3,507.24	3,486.62	20.62	170.082		
1,000.00	999.98	942.98	942.98	3.49	19.50	-4.26	-214.70	-3,500.66	3,505.50	3,482.52	22.98	152.520		
1,100.00	1,099.84	1,042.84	1,042.84	3.83	21.51	-4.27	-214.70	-3,500.66	3,500.28	3,474.94	25.34	138.136		
1,200.00	1,199.45	1,142.45	1,142.45	4.19	23.51	-4.30	-214.70	-3,500.66	3,491.59	3,463.90	27.69	126.085		
1,300.00	1,298.70	1,241.70	1,241.70	4.55	25.51	-4.33	-214.70	-3,500.66	3,479.44	3,449.40	30.04	115.825		
1,400.00	1,397.47	1,340.47	1,340.47	4.94	27.50	-4.37	-214.70	-3,500.66	3,463.84	3,431.46	32.38	106.973		
1,500.00	1,495.62	1,438.62	1,438.62	5.34	29.47	-4.43	-214.70	-3,500.66	3,444.81	3,410.10	34.71	99.246		
1,600.00	1,593.06	1,536.06	1,536.06	5.78	31.43	-4.49	-214.70	-3,500.66	3,422.38	3,385.36	37.03	92.429		
1,700.00	1,689.64	1,632.64	1,632.64	6.24	33.38	-4.57	-214.70	-3,500.66	3,396.58	3,357.25	39.33	86.363		
1,800.00	1,785.27	1,728.27	1,728.27	6.75	35.30	-4.65	-214.70	-3,500.66	3,367.43	3,325.82	41.62	80.912		
1,900.00	1,880.44	1,823.44	1,823.44	7.30	37.21	-4.70	-214.70	-3,500.66	3,336.81	3,292.92	43.89	76.027		
2,000.00	1,975.60	1,918.60	1,918.60	7.86	39.13	-4.74	-214.70	-3,500.66	3,306.18	3,260.02	46.17	71.615		
2,100.00	2,070.77	2,013.77	2,013.77	8.43	41.04	-4.79	-214.70	-3,500.66	3,275.56	3,227.12	48.45	67.612		
2,200.00	2,165.93	2,108.93	2,108.93	9.02	42.96	-4.83	-214.70	-3,500.66	3,244.94	3,194.21	50.73	63.964		
2,300.00	2,261.10	2,204.10	2,204.10	9.62	44.87	-4.88	-214.70	-3,500.66	3,214.32	3,161.31	53.02	60.628		
2,400.00	2,356.26	2,299.26	2,299.26	10.23	46.78	-4.92	-214.70	-3,500.66	3,183.71	3,128.40	55.31	57.564		
2,500.00	2,451.43	2,394.43	2,394.43	10.84	48.70	-4.97	-214.70	-3,500.66	3,153.09	3,095.49	57.60	54.741		
2,600.00	2,546.59	2,489.59	2,489.59	11.46	50.61	-5.02	-214.70	-3,500.66	3,122.48	3,062.59	59.89	52.133		
2,700.00	2,641.76	2,584.76	2,584.76	12.09	52.53	-5.07	-214.70	-3,500.66	3,091.87	3,029.68	62.19	49.716		
2,800.00	2,736.92	2,679.92	2,679.92	12.72	54.44	-5.12	-214.70	-3,500.66	3,061.26	2,996.77	64.49	47.470		
2,900.00	2,832.09	2,775.09	2,775.09	13.35	56.35	-5.17	-214.70	-3,500.66	3,030.66	2,963.87	66.79	45.377		
3,000.00	2,927.25	2,870.25	2,870.25	13.99	58.27	-5.23	-214.70	-3,500.66	3,000.05	2,930.96	69.09	43.423		
3,100.00	3,022.42	2,965.42	2,965.42	14.63	60.18	-5.28	-214.70	-3,500.66	2,969.45	2,898.06	71.39	41.594		
3,200.00	3,117.58	3,060.58	3,060.58	15.27	62.10	-5.33	-214.70	-3,500.66	2,938.85	2,865.16	73.69	39.879		
3,300.00	3,212.75	3,155.75	3,155.75	15.91	64.01	-5.39	-214.70	-3,500.66	2,908.26	2,832.26	76.00	38.267		
3,400.00	3,307.91	3,250.91	3,250.91	16.56	65.92	-5.45	-214.70	-3,500.66	2,877.66	2,799.36	78.30	36.750		
3,500.00	3,403.08	3,346.08	3,346.08	17.20	67.84	-5.51	-214.70	-3,500.66	2,847.07	2,766.46	80.61	35.319		
3,600.00	3,498.24	3,441.24	3,441.24	17.85	69.75	-5.57	-214.70	-3,500.66	2,816.48	2,733.56	82.92	33.967		
3,700.00	3,593.41	3,536.41	3,536.41	18.50	71.67	-5.63	-214.70	-3,500.66	2,785.90	2,700.67	85.23	32.689		
3,800.00	3,688.57	3,631.57	3,631.57	19.15	73.58	-5.69	-214.70	-3,500.66	2,755.31	2,667.78	87.53	31.477		
3,900.00	3,783.74	3,726.74	3,726.74	19.81	75.49	-5.76	-214.70	-3,500.66	2,724.73	2,634.89	89.84	30.328		
4,000.00	3,878.90	3,821.90	3,821.90	20.46	77.41	-5.82	-214.70	-3,500.66	2,694.16	2,602.00	92.15	29.236		
4,100.00	3,974.07	3,917.07	3,917.07	21.11	79.32	-5.89	-214.70	-3,500.66	2,663.59	2,569.12	94.46	28.197		
4,200.00	4,069.23	4,012.23	4,012.23	21.77	81.23	-5.96	-214.70	-3,500.66	2,633.02	2,536.24	96.78	27.207		
4,300.00	4,164.40	4,107.40	4,107.40	22.42	83.15	-6.03	-214.70	-3,500.66	2,602.45	2,503.36	99.09	26.264		
4,400.00	4,259.56	4,202.56	4,202.56	23.08	85.06	-6.10	-214.70	-3,500.66	2,571.89	2,470.49	101.40	25.364		
4,500.00	4,354.73	4,297.73	4,297.73	23.74	86.98	-6.17	-214.70	-3,500.66	2,541.33	2,437.61	103.71	24.503		
4,600.00	4,449.89	4,392.89	4,392.89	24.39	88.89	-6.25	-214.70	-3,500.66	2,510.77	2,404.75	106.03	23.680		
4,700.00	4,545.06	4,488.06	4,488.06	25.05	90.80	-6.32	-214.70	-3,500.66	2,480.22	2,371.88	108.34	22.893		
4,800.00	4,640.22	4,583.22	4,583.22	25.71	92.72	-6.40	-214.70	-3,500.66	2,449.68	2,339.02	110.66	22.138		
4,900.00	4,735.39	4,678.39	4,678.39	26.37	94.63	-6.48	-214.70	-3,500.66	2,419.13	2,306.16	112.97	21.413		
5,000.00	4,830.55	4,773.55	4,773.55	27.03	96.55	-6.57	-214.70	-3,500.66	2,388.60	2,273.31	115.29	20.718		
5,100.00	4,925.72	4,868.72	4,868.72	27.69	98.46	-6.65	-214.70	-3,500.66	2,358.06	2,240.46	117.61	20.051		
5,200.00	5,020.88	4,963.88	4,963.88	28.35	100.37	-6.74	-214.70	-3,500.66	2,327.53	2,207.61	119.92	19.409		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT PRONGHORN 31-17 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,059.05	5,059.05	29.01	102.29	-6.83	-214.70	-3,500.66	2,297.01	2,174.77	122.24	18.791		
5,400.00	5,211.21	5,154.21	5,154.21	29.67	104.20	-6.92	-214.70	-3,500.66	2,266.49	2,141.93	124.56	18.196		
5,500.00	5,306.38	5,249.38	5,249.38	30.33	106.11	-7.02	-214.70	-3,500.66	2,235.98	2,109.10	126.88	17.623		
5,600.00	5,401.54	5,344.54	5,344.54	30.99	108.03	-7.11	-214.70	-3,500.66	2,205.47	2,076.28	129.20	17.071		
5,700.00	5,496.71	5,439.71	5,439.71	31.65	109.94	-11.78	-214.70	-3,500.66	2,174.99	2,043.47	131.52	16.538		
5,800.00	5,591.13	5,534.13	5,534.13	32.30	111.84	-42.19	-214.70	-3,500.66	2,145.96	2,012.10	133.85	16.032		
5,900.00	5,682.22	5,625.22	5,625.22	32.92	113.67	-62.49	-214.70	-3,500.66	2,120.21	1,984.02	136.18	15.569		
6,000.00	5,767.23	5,710.23	5,710.23	33.50	115.38	-75.33	-214.70	-3,500.66	2,099.27	1,960.78	138.49	15.158		
6,100.00	5,843.56	5,786.56	5,786.56	34.04	116.92	-83.77	-214.70	-3,500.66	2,084.82	1,944.05	140.77	14.810		
6,200.00	5,908.90	5,851.90	5,851.90	34.53	118.23	-89.27	-214.70	-3,500.66	2,078.51	1,935.49	143.02	14.533		
6,217.99	5,919.32	5,862.32	5,862.32	34.61	118.44	-90.00	-214.70	-3,500.66	2,078.36	1,934.93	143.43	14.491	CC, ES	
6,300.00	5,961.25	5,904.25	5,904.25	34.99	119.28	-92.43	-214.70	-3,500.66	2,081.73	1,936.51	145.22	14.335		
6,400.00	5,999.04	5,942.04	5,942.04	35.42	120.04	-93.49	-214.70	-3,500.66	2,095.36	1,948.04	147.32	14.223		
6,500.00	6,021.11	5,964.11	5,964.11	35.83	120.49	-92.48	-214.70	-3,500.66	2,119.58	1,970.36	149.22	14.204	SF	
6,600.00	6,027.00	5,970.00	5,970.00	36.24	120.61	-90.00	-214.70	-3,500.66	2,153.76	2,002.91	150.85	14.278		
6,700.00	6,027.00	5,970.00	5,970.00	36.68	120.61	-90.00	-214.70	-3,500.66	2,193.79	2,041.42	152.37	14.398		
6,800.00	6,027.00	5,970.00	5,970.00	37.20	120.61	-90.00	-214.70	-3,500.66	2,237.58	2,083.68	153.90	14.540		
6,900.00	6,027.00	5,970.00	5,970.00	37.80	120.61	-90.00	-214.70	-3,500.66	2,284.91	2,129.50	155.41	14.703		
7,000.00	6,027.00	5,970.00	5,970.00	38.47	120.61	-90.00	-214.70	-3,500.66	2,335.56	2,178.68	156.88	14.887		
7,100.00	6,027.00	5,970.00	5,970.00	39.21	120.61	-90.00	-214.70	-3,500.66	2,389.33	2,231.02	158.31	15.093		
7,200.00	6,027.00	5,970.00	5,970.00	40.02	120.61	-90.00	-214.70	-3,500.66	2,446.01	2,286.33	159.68	15.318		
7,300.00	6,027.00	5,970.00	5,970.00	40.89	120.61	-90.00	-214.70	-3,500.66	2,505.39	2,344.41	160.98	15.563		
7,400.00	6,027.00	5,970.00	5,970.00	41.83	120.61	-90.00	-214.70	-3,500.66	2,567.30	2,405.09	162.22	15.826		
7,500.00	6,027.00	5,970.00	5,970.00	42.83	120.61	-90.00	-214.70	-3,500.66	2,631.56	2,468.17	163.39	16.106		
7,600.00	6,027.00	5,970.00	5,970.00	43.88	120.61	-90.00	-214.70	-3,500.66	2,697.99	2,533.50	164.49	16.402		
7,700.00	6,027.00	5,970.00	5,970.00	44.99	120.61	-90.00	-214.70	-3,500.66	2,766.44	2,600.92	165.52	16.713		
7,800.00	6,027.00	5,970.00	5,970.00	46.14	120.61	-90.00	-214.70	-3,500.66	2,836.77	2,670.27	166.50	17.038		
7,900.00	6,027.00	5,970.00	5,970.00	47.33	120.61	-90.00	-214.70	-3,500.66	2,908.83	2,741.42	167.41	17.376		
8,000.00	6,027.00	5,970.00	5,970.00	48.57	120.61	-90.00	-214.70	-3,500.66	2,982.51	2,814.24	168.26	17.725		
8,100.00	6,027.00	5,970.00	5,970.00	49.84	120.61	-90.00	-214.70	-3,500.66	3,057.68	2,888.61	169.06	18.086		
8,200.00	6,027.00	5,970.00	5,970.00	51.15	120.61	-90.00	-214.70	-3,500.66	3,134.24	2,964.42	169.81	18.457		
8,300.00	6,027.00	5,970.00	5,970.00	52.48	120.61	-90.00	-214.70	-3,500.66	3,212.08	3,041.57	170.52	18.837		
8,400.00	6,027.00	5,970.00	5,970.00	53.85	120.61	-90.00	-214.70	-3,500.66	3,291.13	3,119.95	171.18	19.227		
8,500.00	6,027.00	5,970.00	5,970.00	55.24	120.61	-90.00	-214.70	-3,500.66	3,371.29	3,199.50	171.79	19.624		
8,600.00	6,027.00	5,970.00	5,970.00	56.65	120.61	-90.00	-214.70	-3,500.66	3,452.48	3,280.11	172.37	20.029		
8,700.00	6,027.00	5,970.00	5,970.00	58.08	120.61	-90.00	-214.70	-3,500.66	3,534.64	3,361.73	172.91	20.442		
8,800.00	6,027.00	5,970.00	5,970.00	59.54	120.61	-90.00	-214.70	-3,500.66	3,617.70	3,444.27	173.42	20.860		
8,900.00	6,027.00	5,970.00	5,970.00	61.01	120.61	-90.00	-214.70	-3,500.66	3,701.59	3,527.69	173.90	21.285		
9,000.00	6,027.00	5,970.00	5,970.00	62.50	120.61	-90.00	-214.70	-3,500.66	3,786.27	3,611.91	174.36	21.716		
9,100.00	6,027.00	5,970.00	5,970.00	64.01	120.61	-90.00	-214.70	-3,500.66	3,871.68	3,696.90	174.78	22.152		
9,200.00	6,027.00	5,970.00	5,970.00	65.53	120.61	-90.00	-214.70	-3,500.66	3,957.77	3,782.59	175.18	22.593		
9,300.00	6,027.00	5,970.00	5,970.00	67.06	120.61	-90.00	-214.70	-3,500.66	4,044.50	3,868.94	175.56	23.038		
9,400.00	6,027.00	5,970.00	5,970.00	68.61	120.61	-90.00	-214.70	-3,500.66	4,131.83	3,955.92	175.91	23.488		
9,500.00	6,027.00	5,970.00	5,970.00	70.17	120.61	-90.00	-214.70	-3,500.66	4,219.72	4,043.47	176.25	23.942		
9,600.00	6,027.00	5,970.00	5,970.00	71.73	120.61	-90.00	-214.70	-3,500.66	4,308.15	4,131.58	176.57	24.399		
9,700.00	6,027.00	5,970.00	5,970.00	73.31	120.61	-90.00	-214.70	-3,500.66	4,397.06	4,220.19	176.87	24.860		
9,800.00	6,027.00	5,970.00	5,970.00	74.90	120.61	-90.00	-214.70	-3,500.66	4,486.45	4,309.29	177.16	25.325		
9,900.00	6,027.00	5,970.00	5,970.00	76.50	120.61	-90.00	-214.70	-3,500.66	4,576.27	4,398.84	177.43	25.792		
10,000.00	6,027.00	5,970.00	5,970.00	78.10	120.61	-90.00	-214.70	-3,500.66	4,666.51	4,488.82	177.69	26.263		
10,100.00	6,027.00	5,970.00	5,970.00	79.71	120.61	-90.00	-214.70	-3,500.66	4,757.14	4,579.21	177.93	26.736		
10,200.00	6,027.00	5,970.00	5,970.00	81.33	120.61	-90.00	-214.70	-3,500.66	4,848.14	4,669.97	178.17	27.211		
10,300.00	6,027.00	5,970.00	5,970.00	82.96	120.61	-90.00	-214.70	-3,500.66	4,939.48	4,761.09	178.39	27.689		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT PRONGHORN 31-17 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,970.00	5,970.00	84.59	120.61	-90.00	-214.70	-3,500.66	5,031.15	4,852.55	178.60	28.170		
10,500.00	6,027.00	5,970.00	5,970.00	86.23	120.61	-90.00	-214.70	-3,500.66	5,123.14	4,944.34	178.80	28.652		
10,600.00	6,027.00	5,970.00	5,970.00	87.87	120.61	-90.00	-214.70	-3,500.66	5,215.42	5,036.42	179.00	29.137		
10,700.00	6,027.00	5,970.00	5,970.00	89.52	120.61	-90.00	-214.70	-3,500.66	5,307.98	5,128.80	179.18	29.623		
10,800.00	6,027.00	5,970.00	5,970.00	91.17	120.61	-90.00	-214.70	-3,500.66	5,400.81	5,221.45	179.36	30.111		
10,900.00	6,027.00	5,970.00	5,970.00	92.83	120.61	-90.00	-214.70	-3,500.66	5,493.88	5,314.35	179.53	30.601		
11,000.00	6,027.00	5,970.00	5,970.00	94.49	120.61	-90.00	-214.70	-3,500.66	5,587.20	5,407.50	179.70	31.093		
11,100.00	6,027.00	5,970.00	5,970.00	96.16	120.61	-90.00	-214.70	-3,500.66	5,680.74	5,500.89	179.85	31.586		
11,200.00	6,027.00	5,970.00	5,970.00	97.83	120.61	-90.00	-214.70	-3,500.66	5,774.50	5,594.50	180.00	32.080		
11,300.00	6,027.00	5,970.00	5,970.00	99.50	120.61	-90.00	-214.70	-3,500.66	5,868.47	5,688.32	180.15	32.576		
11,400.00	6,027.00	5,970.00	5,970.00	101.18	120.61	-90.00	-214.70	-3,500.66	5,962.63	5,782.34	180.29	33.072		
11,500.00	6,027.00	5,970.00	5,970.00	102.86	120.61	-90.00	-214.70	-3,500.66	6,056.98	5,876.56	180.43	33.571		
11,600.00	6,027.00	5,970.00	5,970.00	104.54	120.61	-90.00	-214.70	-3,500.66	6,151.51	5,970.96	180.56	34.070		
11,700.00	6,027.00	5,970.00	5,970.00	106.23	120.61	-90.00	-214.70	-3,500.66	6,246.21	6,065.53	180.68	34.570		
11,800.00	6,027.00	5,970.00	5,970.00	107.92	120.61	-90.00	-214.70	-3,500.66	6,341.07	6,160.27	180.80	35.071		
11,900.00	6,027.00	5,970.00	5,970.00	109.61	120.61	-90.00	-214.70	-3,500.66	6,436.09	6,255.17	180.92	35.574		
12,000.00	6,027.00	5,970.00	5,970.00	111.31	120.61	-90.00	-214.70	-3,500.66	6,531.25	6,350.22	181.04	36.077		
12,100.00	6,027.00	5,970.00	5,970.00	113.00	120.61	-90.00	-214.70	-3,500.66	6,626.56	6,445.42	181.15	36.581		
12,200.00	6,027.00	5,970.00	5,970.00	114.71	120.61	-90.00	-214.70	-3,500.66	6,722.01	6,540.75	181.26	37.086		
12,300.00	6,027.00	5,970.00	5,970.00	116.41	120.61	-90.00	-214.70	-3,500.66	6,817.58	6,636.22	181.36	37.591		
12,400.00	6,027.00	5,970.00	5,970.00	118.11	120.61	-90.00	-214.70	-3,500.66	6,913.28	6,731.82	181.46	38.098		
12,500.00	6,027.00	5,970.00	5,970.00	119.82	120.61	-90.00	-214.70	-3,500.66	7,009.10	6,827.54	181.56	38.604		
12,600.00	6,027.00	5,970.00	5,970.00	121.53	120.61	-90.00	-214.70	-3,500.66	7,105.04	6,923.38	181.66	39.112		
12,700.00	6,027.00	5,970.00	5,970.00	123.24	120.61	-90.00	-214.70	-3,500.66	7,201.09	7,019.33	181.75	39.620		
12,800.00	6,027.00	5,970.00	5,970.00	124.95	120.61	-90.00	-214.70	-3,500.66	7,297.24	7,115.39	181.84	40.129		
12,900.00	6,027.00	5,970.00	5,970.00	126.66	120.61	-90.00	-214.70	-3,500.66	7,393.49	7,211.56	181.93	40.638		
13,000.00	6,027.00	5,970.00	5,970.00	128.38	120.61	-90.00	-214.70	-3,500.66	7,489.85	7,307.82	182.02	41.148		
13,100.00	6,027.00	5,970.00	5,970.00	130.10	120.61	-90.00	-214.70	-3,500.66	7,586.29	7,404.18	182.11	41.658		
13,200.00	6,027.00	5,970.00	5,970.00	131.82	120.61	-90.00	-214.70	-3,500.66	7,682.83	7,500.64	182.19	42.169		
13,300.00	6,027.00	5,970.00	5,970.00	133.54	120.61	-90.00	-214.70	-3,500.66	7,779.46	7,597.18	182.27	42.680		
13,400.00	6,027.00	5,970.00	5,970.00	135.26	120.61	-90.00	-214.70	-3,500.66	7,876.16	7,693.81	182.35	43.192		
13,500.00	6,027.00	5,970.00	5,970.00	136.98	120.61	-90.00	-214.70	-3,500.66	7,972.96	7,790.52	182.43	43.704		
13,600.00	6,027.00	5,970.00	5,970.00	138.71	120.61	-90.00	-214.70	-3,500.66	8,069.82	7,887.31	182.51	44.216		
13,700.00	6,027.00	5,970.00	5,970.00	140.43	120.61	-90.00	-214.70	-3,500.66	8,166.77	7,984.18	182.59	44.728		
13,800.00	6,027.00	5,970.00	5,970.00	142.16	120.61	-90.00	-214.70	-3,500.66	8,263.79	8,081.13	182.66	45.241		
13,900.00	6,027.00	5,970.00	5,970.00	143.89	120.61	-90.00	-214.70	-3,500.66	8,360.87	8,178.14	182.73	45.754		
14,000.00	6,027.00	5,970.00	5,970.00	145.62	120.61	-90.00	-214.70	-3,500.66	8,458.03	8,275.22	182.81	46.268		
14,100.00	6,027.00	5,970.00	5,970.00	147.35	120.61	-90.00	-214.70	-3,500.66	8,555.25	8,372.37	182.88	46.781		
14,200.00	6,027.00	5,970.00	5,970.00	149.08	120.61	-90.00	-214.70	-3,500.66	8,652.54	8,469.59	182.95	47.295		
14,300.00	6,027.00	5,970.00	5,970.00	150.81	120.61	-90.00	-214.70	-3,500.66	8,749.88	8,566.86	183.02	47.809		
14,400.00	6,027.00	5,970.00	5,970.00	152.54	120.61	-90.00	-214.70	-3,500.66	8,847.29	8,664.20	183.08	48.323		
14,500.00	6,027.00	5,970.00	5,970.00	154.28	120.61	-90.00	-214.70	-3,500.66	8,944.75	8,761.60	183.15	48.838		
14,600.00	6,027.00	5,970.00	5,970.00	156.01	120.61	-90.00	-214.70	-3,500.66	9,042.27	8,859.05	183.22	49.352		
14,700.00	6,027.00	5,970.00	5,970.00	157.75	120.61	-90.00	-214.70	-3,500.66	9,139.84	8,956.55	183.28	49.867		
14,800.00	6,027.00	5,970.00	5,970.00	159.49	120.61	-90.00	-214.70	-3,500.66	9,237.46	9,054.11	183.35	50.382		
14,900.00	6,027.00	5,970.00	5,970.00	161.22	120.61	-90.00	-214.70	-3,500.66	9,335.13	9,151.72	183.41	50.897		
15,000.00	6,027.00	5,970.00	5,970.00	162.96	120.61	-90.00	-214.70	-3,500.66	9,432.85	9,249.38	183.48	51.412		
15,100.00	6,027.00	5,970.00	5,970.00	164.70	120.61	-90.00	-214.70	-3,500.66	9,530.62	9,347.09	183.54	51.927		
15,200.00	6,027.00	5,970.00	5,970.00	166.44	120.61	-90.00	-214.70	-3,500.66	9,628.44	9,444.84	183.60	52.442		
15,300.00	6,027.00	5,970.00	5,970.00	168.18	120.61	-90.00	-214.70	-3,500.66	9,726.30	9,542.64	183.66	52.957		
15,400.00	6,027.00	5,970.00	5,970.00	169.93	120.61	-90.00	-214.70	-3,500.66	9,824.20	9,640.48	183.72	53.473		
15,500.00	6,027.00	5,970.00	5,970.00	171.67	120.61	-90.00	-214.70	-3,500.66	9,922.15	9,738.36	183.78	53.988		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											SEC 17-T5N-R61W - ABND VERT PRONGHORN 31-17 - OWB - Design #1		Offset Site Error:		0.00 usft	
Survey Program:		0-INC										Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
15,600.00	6,027.00	5,970.00	5,970.00	173.41	120.61	-90.00	-214.70	-3,500.66	10,020.13	9,836.29	183.84	54.503				
15,700.00	6,027.00	5,970.00	5,970.00	175.15	120.61	-90.00	-214.70	-3,500.66	10,118.16	9,934.25	183.90	55.019				

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-126.18	-1,584.66	-2,166.80	2,685.51					
100.00	100.00	22.73	22.73	0.27	0.04	-126.18	-1,584.68	-2,166.80	2,684.44	2,684.13	0.31	8,679.267		
200.00	200.00	120.78	120.78	0.63	0.25	-126.19	-1,585.06	-2,166.68	2,684.57	2,683.69	0.88	3,059.850		
300.00	300.00	229.48	229.48	0.99	0.63	-126.20	-1,585.48	-2,166.25	2,684.48	2,682.86	1.62	1,660.531		
400.00	400.00	327.17	327.17	1.34	0.97	-126.21	-1,585.85	-2,165.76	2,684.30	2,681.98	2.32	1,168.806		
454.06	454.06	378.07	378.06	1.54	1.15	-126.22	-1,586.06	-2,165.57	2,684.26	2,681.58	2.69	998.588		
500.00	500.00	422.05	422.04	1.70	1.30	-126.22	-1,586.22	-2,165.47	2,684.28	2,681.28	3.01	892.927		
600.00	600.00	521.62	521.61	2.06	1.65	-126.23	-1,586.50	-2,165.41	2,684.40	2,680.69	3.71	723.269		
700.00	700.00	627.01	627.00	2.42	2.02	-126.23	-1,586.66	-2,165.23	2,684.34	2,679.91	4.44	604.955		
800.00	800.00	724.51	724.50	2.78	2.36	-126.24	-1,586.87	-2,165.00	2,684.28	2,679.15	5.14	522.665		
900.00	900.00	826.15	826.14	3.14	2.72	-126.24	-1,587.01	-2,164.89	2,684.28	2,678.43	5.85	458.953		
1,000.00	999.98	933.46	933.45	3.49	3.09	-37.03	-1,586.95	-2,164.58	2,682.62	2,676.04	6.57	408.105		
1,100.00	1,099.84	1,032.72	1,032.71	3.83	3.44	-37.16	-1,586.98	-2,164.14	2,678.10	2,670.84	7.27	368.595		
1,200.00	1,199.45	1,132.68	1,132.67	4.19	3.79	-37.37	-1,586.97	-2,163.73	2,670.82	2,662.86	7.97	335.310		
1,300.00	1,298.70	1,231.81	1,231.80	4.55	4.14	-37.66	-1,586.96	-2,163.30	2,660.77	2,652.10	8.67	306.986		
1,400.00	1,397.47	1,329.06	1,329.05	4.94	4.48	-38.02	-1,586.93	-2,162.95	2,648.06	2,638.68	9.37	282.604		
1,500.00	1,495.62	1,427.21	1,427.20	5.34	4.82	-38.47	-1,586.94	-2,162.59	2,632.68	2,622.59	10.09	261.034		
1,600.00	1,593.06	1,521.66	1,521.64	5.78	5.15	-39.00	-1,586.90	-2,162.30	2,614.68	2,603.88	10.80	242.094		
1,700.00	1,689.64	1,607.88	1,607.86	6.24	5.45	-39.58	-1,586.86	-2,162.38	2,594.42	2,582.92	11.50	225.570		
1,800.00	1,785.27	1,700.00	1,699.99	6.75	5.77	-40.25	-1,586.79	-2,162.64	2,571.77	2,559.53	12.24	210.030		
1,900.00	1,880.44	1,783.86	1,783.85	7.30	6.06	-40.63	-1,586.88	-2,163.06	2,548.40	2,535.42	12.97	196.464		
2,000.00	1,975.60	1,877.93	1,877.91	7.86	6.39	-41.06	-1,587.30	-2,163.80	2,525.56	2,511.81	13.75	183.709		
2,100.00	2,070.77	1,965.42	1,965.40	8.43	6.70	-41.47	-1,587.75	-2,164.53	2,502.95	2,488.43	14.51	172.440		
2,200.00	2,165.93	2,063.33	2,063.30	9.02	7.04	-41.93	-1,588.08	-2,165.82	2,480.74	2,465.41	15.33	161.827		
2,300.00	2,261.10	2,163.74	2,163.69	9.62	7.39	-42.39	-1,587.47	-2,167.55	2,458.39	2,442.23	16.16	152.090		
2,400.00	2,356.26	2,266.70	2,266.63	10.23	7.75	-42.85	-1,586.35	-2,169.53	2,436.04	2,419.02	17.02	143.156		
2,500.00	2,451.43	2,360.58	2,360.48	10.84	8.08	-43.28	-1,585.19	-2,171.18	2,413.59	2,395.75	17.85	135.230		
2,600.00	2,546.59	2,455.05	2,454.94	11.46	8.41	-43.73	-1,584.35	-2,172.79	2,391.49	2,372.80	18.69	127.958		
2,700.00	2,641.76	2,551.54	2,551.41	12.09	8.75	-44.20	-1,583.40	-2,174.42	2,369.46	2,349.91	19.55	121.230		
2,800.00	2,736.92	2,645.82	2,645.68	12.72	9.08	-44.66	-1,582.73	-2,175.83	2,347.63	2,327.23	20.40	115.074		
2,900.00	2,832.09	2,741.67	2,741.52	13.35	9.41	-45.16	-1,582.44	-2,176.96	2,325.99	2,304.72	21.27	109.360		
3,000.00	2,927.25	2,840.07	2,839.92	13.99	9.76	-45.70	-1,582.70	-2,177.49	2,304.47	2,282.32	22.15	104.024		
3,100.00	3,022.42	2,937.93	2,937.78	14.63	10.10	-46.26	-1,583.03	-2,177.72	2,283.00	2,259.95	23.04	99.074		
3,200.00	3,117.58	3,037.29	3,037.14	15.27	10.44	-46.83	-1,583.33	-2,177.92	2,261.68	2,237.73	23.95	94.452		
3,300.00	3,212.75	3,139.26	3,139.11	15.91	10.80	-47.44	-1,583.43	-2,177.78	2,240.20	2,215.34	24.86	90.107		
3,400.00	3,307.91	3,229.86	3,229.71	16.56	11.12	-47.98	-1,583.54	-2,177.61	2,218.93	2,193.18	25.75	86.167		
3,500.00	3,403.08	3,318.90	3,318.74	17.20	11.43	-48.52	-1,583.65	-2,177.89	2,198.21	2,171.57	26.64	82.505		
3,600.00	3,498.24	3,420.59	3,420.44	17.85	11.78	-49.14	-1,583.53	-2,178.31	2,177.64	2,150.06	27.58	78.958		
3,700.00	3,593.41	3,515.93	3,515.78	18.50	12.11	-49.73	-1,583.44	-2,178.50	2,157.16	2,128.65	28.50	75.678		
3,800.00	3,688.57	3,607.10	3,606.94	19.15	12.43	-50.32	-1,583.46	-2,178.72	2,137.02	2,107.60	29.42	72.627		
3,900.00	3,783.74	3,700.00	3,699.84	19.81	12.76	-50.92	-1,583.59	-2,179.05	2,117.31	2,086.95	30.36	69.747		
4,000.00	3,878.90	3,799.86	3,799.69	20.46	13.10	-51.61	-1,584.57	-2,178.36	2,097.80	2,066.48	31.32	66.979		
4,100.00	3,974.07	3,896.64	3,896.42	21.11	13.45	-52.35	-1,586.56	-2,176.17	2,078.41	2,046.12	32.29	64.368		
4,200.00	4,069.23	4,007.92	4,007.61	21.77	13.84	-53.24	-1,589.22	-2,172.40	2,058.95	2,025.63	33.31	61.803		
4,300.00	4,164.40	4,111.91	4,111.45	22.42	14.22	-54.13	-1,591.93	-2,167.47	2,039.24	2,004.91	34.33	59.393		
4,400.00	4,259.56	4,212.23	4,211.50	23.08	14.59	-55.05	-1,595.29	-2,161.05	2,019.57	1,984.21	35.37	57.106		
4,500.00	4,354.73	4,312.60	4,311.51	23.74	14.96	-56.02	-1,599.09	-2,153.46	2,000.08	1,963.67	36.42	54.924		
4,600.00	4,449.89	4,416.98	4,415.51	24.39	15.36	-57.05	-1,602.61	-2,145.21	1,980.62	1,943.14	37.49	52.835		
4,700.00	4,545.06	4,513.31	4,511.50	25.05	15.72	-58.01	-1,605.37	-2,137.66	1,961.37	1,922.83	38.54	50.893		
4,800.00	4,640.22	4,609.12	4,607.01	25.71	16.07	-58.97	-1,607.72	-2,130.47	1,942.54	1,902.94	39.59	49.063		
4,900.00	4,735.39	4,715.84	4,713.49	26.37	16.46	-60.01	-1,608.93	-2,123.54	1,923.73	1,883.06	40.67	47.301		
5,000.00	4,830.55	4,804.38	4,801.93	27.03	16.78	-60.83	-1,608.88	-2,119.20	1,905.29	1,863.59	41.69	45.698		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT PRONGHORN 42-17 (GYRO) - OWB - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,925.72	4,892.10	4,889.59	27.69	17.08	-61.63	-1,608.42	-2,116.07	1,887.58	1,844.87	42.71	44.193		
5,200.00	5,020.88	4,983.87	4,981.33	28.35	17.40	-62.45	-1,607.66	-2,113.70	1,870.55	1,826.80	43.74	42.762		
5,300.00	5,116.05	5,074.04	5,071.47	29.01	17.71	-63.25	-1,606.68	-2,112.07	1,854.10	1,809.32	44.77	41.412		
5,400.00	5,211.21	5,170.26	5,167.68	29.67	18.04	-64.09	-1,605.46	-2,110.93	1,838.19	1,792.37	45.82	40.119		
5,500.00	5,306.38	5,256.94	5,254.35	30.33	18.34	-64.85	-1,604.15	-2,110.34	1,822.73	1,775.88	46.85	38.909		
5,600.00	5,401.54	5,343.19	5,340.60	30.99	18.64	-65.61	-1,603.20	-2,110.31	1,808.28	1,760.41	47.87	37.771		
5,700.00	5,496.71	5,431.99	5,429.40	31.65	18.95	-70.61	-1,602.52	-2,110.29	1,794.69	1,745.77	48.92	36.690		
5,765.82	5,559.09	5,487.55	5,484.95	32.08	19.14	-90.18	-1,602.31	-2,110.35	1,790.99	1,741.34	49.65	36.076	CC, ES	
5,800.00	5,591.13	5,517.42	5,514.83	32.30	19.24	-98.61	-1,602.27	-2,110.42	1,791.99	1,741.97	50.01	35.831		
5,900.00	5,682.22	5,606.00	5,603.40	32.92	19.55	-116.00	-1,602.23	-2,110.72	1,806.24	1,755.06	51.18	35.293		
6,000.00	5,767.23	5,698.65	5,696.05	33.50	19.87	-125.75	-1,602.06	-2,111.01	1,836.91	1,784.54	52.37	35.076	SF	
6,100.00	5,843.56	5,768.67	5,766.07	34.04	20.11	-130.63	-1,601.93	-2,111.14	1,883.38	1,829.91	53.46	35.228		
6,200.00	5,908.90	5,829.48	5,826.88	34.53	20.32	-132.27	-1,602.04	-2,111.24	1,944.55	1,890.09	54.45	35.710		
6,300.00	5,961.25	5,879.34	5,876.74	34.99	20.50	-130.84	-1,602.18	-2,111.38	2,018.34	1,963.03	55.31	36.492		
6,400.00	5,999.04	5,900.00	5,897.40	35.42	20.57	-124.49	-1,602.25	-2,111.46	2,102.34	2,046.39	55.95	37.576		
6,500.00	6,021.11	5,900.00	5,897.40	35.83	20.57	-109.13	-1,602.25	-2,111.46	2,193.85	2,137.45	56.39	38.903		
6,600.00	6,027.00	5,900.00	5,897.40	36.24	20.57	-84.92	-1,602.25	-2,111.46	2,289.46	2,232.73	56.73	40.358		
6,700.00	6,027.00	5,900.00	5,897.40	36.68	20.57	-84.92	-1,602.25	-2,111.46	2,386.05	2,329.03	57.01	41.850		
6,800.00	6,027.00	5,900.00	5,897.40	37.20	20.57	-84.92	-1,602.25	-2,111.46	2,482.91	2,425.63	57.28	43.350		
6,900.00	6,027.00	5,900.00	5,897.40	37.80	20.57	-84.92	-1,602.25	-2,111.46	2,580.01	2,522.49	57.52	44.855		
7,000.00	6,027.00	5,900.00	5,897.40	38.47	20.57	-84.92	-1,602.25	-2,111.46	2,677.33	2,619.58	57.75	46.364		
7,100.00	6,027.00	5,900.00	5,897.40	39.21	20.57	-84.92	-1,602.25	-2,111.46	2,774.83	2,716.88	57.96	47.878		
7,200.00	6,027.00	5,900.00	5,897.40	40.02	20.57	-84.92	-1,602.25	-2,111.46	2,872.51	2,814.36	58.15	49.396		
7,300.00	6,027.00	5,900.00	5,897.40	40.89	20.57	-84.92	-1,602.25	-2,111.46	2,970.34	2,912.01	58.34	50.917		
7,400.00	6,027.00	5,900.00	5,897.40	41.83	20.57	-84.92	-1,602.25	-2,111.46	3,068.32	3,009.80	58.51	52.440		
7,500.00	6,027.00	5,900.00	5,897.40	42.83	20.57	-84.92	-1,602.25	-2,111.46	3,166.41	3,107.74	58.67	53.967		
7,600.00	6,027.00	5,900.00	5,897.40	43.88	20.57	-84.92	-1,602.25	-2,111.46	3,264.63	3,205.80	58.83	55.495		
7,700.00	6,027.00	5,900.00	5,897.40	44.99	20.57	-84.92	-1,602.25	-2,111.46	3,362.95	3,303.97	58.97	57.025		
7,800.00	6,027.00	5,900.00	5,897.40	46.14	20.57	-84.92	-1,602.25	-2,111.46	3,461.36	3,402.25	59.11	58.557		
7,900.00	6,027.00	5,900.00	5,897.40	47.33	20.57	-84.92	-1,602.25	-2,111.46	3,559.87	3,500.62	59.24	60.090		
8,000.00	6,027.00	5,900.00	5,897.40	48.57	20.57	-84.92	-1,602.25	-2,111.46	3,658.45	3,599.08	59.37	61.624		
8,100.00	6,027.00	5,900.00	5,897.40	49.84	20.57	-84.92	-1,602.25	-2,111.46	3,757.11	3,697.63	59.49	63.159		
8,200.00	6,027.00	5,900.00	5,897.40	51.15	20.57	-84.92	-1,602.25	-2,111.46	3,855.84	3,796.24	59.60	64.695		
8,300.00	6,027.00	5,900.00	5,897.40	52.48	20.57	-84.92	-1,602.25	-2,111.46	3,954.63	3,894.92	59.71	66.231		
8,400.00	6,027.00	5,900.00	5,897.40	53.85	20.57	-84.92	-1,602.25	-2,111.46	4,053.49	3,993.67	59.81	67.767		
8,500.00	6,027.00	5,900.00	5,897.40	55.24	20.57	-84.92	-1,602.25	-2,111.46	4,152.39	4,092.48	59.92	69.304		
8,600.00	6,027.00	5,900.00	5,897.40	56.65	20.57	-84.92	-1,602.25	-2,111.46	4,251.35	4,191.34	60.01	70.841		
8,700.00	6,027.00	5,900.00	5,897.40	58.08	20.57	-84.92	-1,602.25	-2,111.46	4,350.36	4,290.25	60.11	72.378		
8,800.00	6,027.00	5,900.00	5,897.40	59.54	20.57	-84.92	-1,602.25	-2,111.46	4,449.41	4,389.21	60.20	73.915		
8,900.00	6,027.00	5,900.00	5,897.40	61.01	20.57	-84.92	-1,602.25	-2,111.46	4,548.50	4,488.22	60.28	75.452		
9,000.00	6,027.00	5,900.00	5,897.40	62.50	20.57	-84.92	-1,602.25	-2,111.46	4,647.63	4,587.26	60.37	76.988		
9,100.00	6,027.00	5,900.00	5,897.40	64.01	20.57	-84.92	-1,602.25	-2,111.46	4,746.80	4,686.35	60.45	78.524		
9,200.00	6,027.00	5,900.00	5,897.40	65.53	20.57	-84.92	-1,602.25	-2,111.46	4,846.00	4,785.47	60.53	80.059		
9,300.00	6,027.00	5,900.00	5,897.40	67.06	20.57	-84.92	-1,602.25	-2,111.46	4,945.23	4,884.62	60.61	81.594		
9,400.00	6,027.00	5,900.00	5,897.40	68.61	20.57	-84.92	-1,602.25	-2,111.46	5,044.50	4,983.81	60.68	83.127		
9,500.00	6,027.00	5,900.00	5,897.40	70.17	20.57	-84.92	-1,602.25	-2,111.46	5,143.79	5,083.03	60.76	84.661		
9,600.00	6,027.00	5,900.00	5,897.40	71.73	20.57	-84.92	-1,602.25	-2,111.46	5,243.11	5,182.28	60.83	86.193		
9,700.00	6,027.00	5,900.00	5,897.40	73.31	20.57	-84.92	-1,602.25	-2,111.46	5,342.45	5,281.55	60.90	87.724		
9,800.00	6,027.00	5,900.00	5,897.40	74.90	20.57	-84.92	-1,602.25	-2,111.46	5,441.82	5,380.85	60.97	89.255		
9,900.00	6,027.00	5,900.00	5,897.40	76.50	20.57	-84.92	-1,602.25	-2,111.46	5,541.21	5,480.17	61.04	90.784		
10,000.00	6,027.00	5,900.00	5,897.40	78.10	20.57	-84.92	-1,602.25	-2,111.46	5,640.62	5,579.52	61.10	92.312		
10,100.00	6,027.00	5,900.00	5,897.40	79.71	20.57	-84.92	-1,602.25	-2,111.46	5,740.06	5,678.89	61.17	93.839		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - ABND VERT PRONGHORN 42-17 (GYRO) - OWB - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	6,027.00	5,900.00	5,897.40	81.33	20.57	-84.92	-1,602.25	-2,111.46	5,839.51	5,778.28	61.23	95.364		
10,300.00	6,027.00	5,900.00	5,897.40	82.96	20.57	-84.92	-1,602.25	-2,111.46	5,938.98	5,877.68	61.30	96.889		
10,400.00	6,027.00	5,900.00	5,897.40	84.59	20.57	-84.92	-1,602.25	-2,111.46	6,038.47	5,977.11	61.36	98.412		
10,500.00	6,027.00	5,900.00	5,897.40	86.23	20.57	-84.92	-1,602.25	-2,111.46	6,137.98	6,076.55	61.42	99.933		
10,600.00	6,027.00	5,900.00	5,897.40	87.87	20.57	-84.92	-1,602.25	-2,111.46	6,237.50	6,176.01	61.48	101.454		
10,700.00	6,027.00	5,900.00	5,897.40	89.52	20.57	-84.92	-1,602.25	-2,111.46	6,337.03	6,275.49	61.54	102.972		
10,800.00	6,027.00	5,900.00	5,897.40	91.17	20.57	-84.92	-1,602.25	-2,111.46	6,436.58	6,374.98	61.60	104.489		
10,900.00	6,027.00	5,900.00	5,897.40	92.83	20.57	-84.92	-1,602.25	-2,111.46	6,536.15	6,474.49	61.66	106.005		
11,000.00	6,027.00	5,900.00	5,897.40	94.49	20.57	-84.92	-1,602.25	-2,111.46	6,635.72	6,574.01	61.72	107.518		
11,100.00	6,027.00	5,900.00	5,897.40	96.16	20.57	-84.92	-1,602.25	-2,111.46	6,735.31	6,673.54	61.77	109.030		
11,200.00	6,027.00	5,900.00	5,897.40	97.83	20.57	-84.92	-1,602.25	-2,111.46	6,834.92	6,773.08	61.83	110.541		
11,300.00	6,027.00	5,900.00	5,897.40	99.50	20.57	-84.92	-1,602.25	-2,111.46	6,934.53	6,872.64	61.89	112.049		
11,400.00	6,027.00	5,900.00	5,897.40	101.18	20.57	-84.92	-1,602.25	-2,111.46	7,034.15	6,972.21	61.94	113.556		
11,500.00	6,027.00	5,900.00	5,897.40	102.86	20.57	-84.92	-1,602.25	-2,111.46	7,133.79	7,071.79	62.00	115.060		
11,600.00	6,027.00	5,900.00	5,897.40	104.54	20.57	-84.92	-1,602.25	-2,111.46	7,233.43	7,171.38	62.06	116.563		
11,700.00	6,027.00	5,900.00	5,897.40	106.23	20.57	-84.92	-1,602.25	-2,111.46	7,333.09	7,270.98	62.11	118.064		
11,800.00	6,027.00	5,900.00	5,897.40	107.92	20.57	-84.92	-1,602.25	-2,111.46	7,432.75	7,370.58	62.17	119.563		
11,900.00	6,027.00	5,900.00	5,897.40	109.61	20.57	-84.92	-1,602.25	-2,111.46	7,532.42	7,470.20	62.22	121.060		
12,000.00	6,027.00	5,900.00	5,897.40	111.31	20.57	-84.92	-1,602.25	-2,111.46	7,632.10	7,569.83	62.28	122.555		
12,100.00	6,027.00	5,900.00	5,897.40	113.00	20.57	-84.92	-1,602.25	-2,111.46	7,731.79	7,669.46	62.33	124.048		
12,200.00	6,027.00	5,900.00	5,897.40	114.71	20.57	-84.92	-1,602.25	-2,111.46	7,831.49	7,769.11	62.38	125.538		
12,300.00	6,027.00	5,900.00	5,897.40	116.41	20.57	-84.92	-1,602.25	-2,111.46	7,931.20	7,868.76	62.44	127.027		
12,400.00	6,027.00	5,900.00	5,897.40	118.11	20.57	-84.92	-1,602.25	-2,111.46	8,030.91	7,968.42	62.49	128.513		
12,500.00	6,027.00	5,900.00	5,897.40	119.82	20.57	-84.92	-1,602.25	-2,111.46	8,130.63	8,068.08	62.54	129.997		
12,600.00	6,027.00	5,900.00	5,897.40	121.53	20.57	-84.92	-1,602.25	-2,111.46	8,230.35	8,167.76	62.60	131.478		
12,700.00	6,027.00	5,900.00	5,897.40	123.24	20.57	-84.92	-1,602.25	-2,111.46	8,330.09	8,267.44	62.65	132.958		
12,800.00	6,027.00	5,900.00	5,897.40	124.95	20.57	-84.92	-1,602.25	-2,111.46	8,429.83	8,367.12	62.71	134.435		
12,900.00	6,027.00	5,900.00	5,897.40	126.66	20.57	-84.92	-1,602.25	-2,111.46	8,529.57	8,466.81	62.76	135.909		
13,000.00	6,027.00	5,900.00	5,897.40	128.38	20.57	-84.92	-1,602.25	-2,111.46	8,629.32	8,566.51	62.81	137.382		
13,100.00	6,027.00	5,900.00	5,897.40	130.10	20.57	-84.92	-1,602.25	-2,111.46	8,729.08	8,666.21	62.87	138.852		
13,200.00	6,027.00	5,900.00	5,897.40	131.82	20.57	-84.92	-1,602.25	-2,111.46	8,828.84	8,765.92	62.92	140.319		
13,300.00	6,027.00	5,900.00	5,897.40	133.54	20.57	-84.92	-1,602.25	-2,111.46	8,928.61	8,865.64	62.97	141.784		
13,400.00	6,027.00	5,900.00	5,897.40	135.26	20.57	-84.92	-1,602.25	-2,111.46	9,028.38	8,965.36	63.03	143.246		
13,500.00	6,027.00	5,900.00	5,897.40	136.98	20.57	-84.92	-1,602.25	-2,111.46	9,128.16	9,065.08	63.08	144.706		
13,600.00	6,027.00	5,900.00	5,897.40	138.71	20.57	-84.92	-1,602.25	-2,111.46	9,227.94	9,164.81	63.13	146.164		
13,700.00	6,027.00	5,900.00	5,897.40	140.43	20.57	-84.92	-1,602.25	-2,111.46	9,327.73	9,264.54	63.19	147.618		
13,800.00	6,027.00	5,900.00	5,897.40	142.16	20.57	-84.92	-1,602.25	-2,111.46	9,427.52	9,364.28	63.24	149.070		
13,900.00	6,027.00	5,900.00	5,897.40	143.89	20.57	-84.92	-1,602.25	-2,111.46	9,527.32	9,464.02	63.30	150.520		
14,000.00	6,027.00	5,900.00	5,897.40	145.62	20.57	-84.92	-1,602.25	-2,111.46	9,627.12	9,563.77	63.35	151.967		
14,100.00	6,027.00	5,900.00	5,897.40	147.35	20.57	-84.92	-1,602.25	-2,111.46	9,726.92	9,663.52	63.40	153.411		
14,200.00	6,027.00	5,900.00	5,897.40	149.08	20.57	-84.92	-1,602.25	-2,111.46	9,826.73	9,763.27	63.46	154.852		
14,300.00	6,027.00	5,900.00	5,897.40	150.81	20.57	-84.92	-1,602.25	-2,111.46	9,926.54	9,863.03	63.51	156.291		
14,400.00	6,027.00	5,900.00	5,897.40	152.54	20.57	-84.92	-1,602.25	-2,111.46	10,026.36	9,962.79	63.57	157.726		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 524-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	38.54	38.54	0.27	0.07	-88.96	102.63	-5,675.63	5,676.56	5,676.22	0.34	N/A		
200.00	200.00	132.53	132.52	0.63	0.23	-88.97	102.27	-5,675.73	5,676.66	5,675.80	0.86	6,605.063		
300.00	300.00	226.51	226.51	0.99	0.40	-88.98	101.51	-5,675.93	5,676.86	5,675.48	1.38	4,106.190		
400.00	400.00	320.48	320.47	1.34	0.56	-88.99	100.35	-5,676.24	5,677.17	5,675.26	1.91	2,979.261		
500.00	500.00	414.45	414.42	1.70	0.73	-89.00	98.80	-5,676.66	5,677.58	5,675.15	2.43	2,337.814		
600.00	600.00	524.00	523.95	2.06	0.92	-89.03	96.48	-5,677.28	5,678.13	5,675.15	2.98	1,906.102		
700.00	700.00	564.22	564.16	2.42	1.06	-89.03	95.64	-5,677.69	5,679.01	5,675.53	3.48	1,631.232		
800.00	800.00	602.00	601.93	2.78	1.20	-89.04	95.07	-5,678.34	5,680.84	5,676.87	3.98	1,429.119		
900.00	900.00	638.31	638.22	3.14	1.33	-89.04	94.81	-5,679.37	5,683.78	5,679.32	4.46	1,274.360		
1,000.00	999.98	695.00	694.84	3.49	1.53	0.22	95.23	-5,682.05	5,686.43	5,681.43	5.01	1,135.990		
1,100.00	1,099.84	695.00	694.84	3.83	1.53	0.22	95.23	-5,682.05	5,686.41	5,681.06	5.35	1,063.567		
1,200.00	1,199.45	741.66	741.40	4.19	1.69	0.23	96.35	-5,685.05	5,684.20	5,678.34	5.85	971.366		
1,300.00	1,298.70	787.00	786.57	4.55	1.85	0.24	98.10	-5,688.44	5,679.51	5,673.16	6.35	893.786		
1,400.00	1,397.47	827.09	826.46	4.94	2.00	0.27	100.16	-5,691.84	5,672.35	5,665.51	6.84	828.854		
1,500.00	1,495.62	879.00	878.03	5.34	2.18	0.30	103.51	-5,696.76	5,662.72	5,655.34	7.38	767.577		
1,600.00	1,593.06	940.32	938.88	5.78	2.41	0.35	107.82	-5,703.04	5,650.39	5,642.44	7.95	710.458		
1,700.00	1,689.64	1,037.61	1,035.41	6.24	2.78	0.41	114.36	-5,713.22	5,634.92	5,626.25	8.67	650.086		
1,800.00	1,785.27	1,141.98	1,139.02	6.75	3.19	0.48	120.73	-5,724.03	5,615.89	5,606.47	9.42	596.205		
1,900.00	1,880.44	1,202.90	1,199.52	7.30	3.43	0.52	123.90	-5,730.48	5,595.57	5,585.57	10.01	559.195		
2,000.00	1,975.60	1,395.48	1,390.82	7.86	4.19	0.60	131.86	-5,751.05	5,575.78	5,564.69	11.09	502.851		
2,100.00	2,070.77	1,490.82	1,485.70	8.43	4.57	0.64	135.69	-5,759.53	5,553.75	5,541.94	11.81	470.161		
2,200.00	2,165.93	1,648.21	1,642.32	9.02	5.18	0.71	142.04	-5,773.66	5,531.89	5,519.13	12.77	433.302		
2,300.00	2,261.10	1,706.00	1,699.79	9.62	5.41	0.75	145.36	-5,778.67	5,509.67	5,496.30	13.36	412.356		
2,400.00	2,356.26	1,764.77	1,758.13	10.23	5.65	0.80	150.00	-5,784.14	5,488.14	5,474.17	13.97	392.925		
2,500.00	2,451.43	1,930.37	1,922.53	10.84	6.31	0.95	163.47	-5,798.64	5,465.99	5,451.01	14.97	365.090		
2,600.00	2,546.59	1,985.00	1,976.71	11.46	6.52	1.00	168.55	-5,803.44	5,444.01	5,428.45	15.57	349.675		
2,700.00	2,641.76	2,081.00	2,071.94	12.09	6.91	1.10	177.20	-5,811.90	5,422.12	5,405.79	16.32	332.169		
2,800.00	2,736.92	2,128.84	2,119.43	12.72	7.11	1.14	180.83	-5,816.32	5,400.77	5,383.87	16.90	319.556		
2,900.00	2,832.09	2,176.00	2,166.18	13.35	7.30	1.18	184.37	-5,821.46	5,380.70	5,363.22	17.48	307.864		
3,000.00	2,927.25	2,176.00	2,166.18	13.99	7.30	1.18	184.37	-5,821.46	5,361.81	5,343.93	17.88	299.879		
3,100.00	3,022.42	2,241.92	2,231.37	14.63	7.58	1.24	189.54	-5,829.74	5,343.77	5,325.24	18.53	288.351		
3,200.00	3,117.58	2,411.44	2,398.98	15.27	8.30	1.37	201.40	-5,852.09	5,326.44	5,306.87	19.57	272.145		
3,300.00	3,212.75	2,500.79	2,487.56	15.91	8.68	1.43	206.07	-5,862.77	5,307.55	5,287.24	20.31	261.349		
3,400.00	3,307.91	2,558.00	2,544.22	16.56	8.92	1.46	209.10	-5,870.13	5,289.49	5,268.56	20.93	252.749		
3,500.00	3,403.08	2,695.80	2,680.83	17.20	9.49	1.53	215.21	-5,887.02	5,270.64	5,248.80	21.84	241.325		
3,600.00	3,498.24	2,748.00	2,732.52	17.85	9.71	1.57	217.95	-5,893.80	5,252.68	5,230.24	22.44	234.039		
3,700.00	3,593.41	2,914.17	2,897.04	18.50	10.42	1.69	228.19	-5,914.72	5,234.48	5,211.01	23.47	223.058		
3,800.00	3,688.57	3,036.00	3,017.75	19.15	10.93	1.79	237.08	-5,928.57	5,215.06	5,190.73	24.33	214.349		
3,900.00	3,783.74	3,073.59	3,055.00	19.81	11.09	1.82	239.35	-5,933.08	5,196.29	5,171.41	24.89	208.799		
4,000.00	3,878.90	3,133.00	3,113.78	20.46	11.34	1.86	242.37	-5,941.17	5,178.84	5,153.32	25.52	202.918		
4,100.00	3,974.07	3,198.63	3,178.67	21.11	11.62	1.89	245.06	-5,950.60	5,162.10	5,135.93	26.18	197.195		
4,200.00	4,069.23	3,273.64	3,252.89	21.77	11.95	1.92	247.66	-5,961.20	5,145.36	5,118.49	26.87	191.508		
4,300.00	4,164.40	3,324.00	3,302.64	22.42	12.16	1.95	249.56	-5,968.72	5,129.42	5,101.95	27.47	186.738		
4,400.00	4,259.56	3,378.26	3,356.18	23.08	12.41	1.97	251.68	-5,977.31	5,114.38	5,086.30	28.08	182.106		
4,500.00	4,354.73	3,420.00	3,397.30	23.74	12.59	1.99	253.27	-5,984.29	5,100.30	5,071.65	28.65	177.999		
4,600.00	4,449.89	4,224.48	4,195.06	24.39	15.88	2.63	303.14	-6,065.73	5,077.58	5,045.76	31.81	159.603		
4,700.00	4,545.06	4,284.00	4,254.46	25.05	16.09	2.67	305.78	-6,068.40	5,051.24	5,018.78	32.46	155.631		
4,800.00	4,640.22	4,316.96	4,287.33	25.71	16.21	2.69	307.23	-6,070.21	5,025.73	4,992.71	33.02	152.186		
4,900.00	4,735.39	4,379.00	4,349.22	26.37	16.44	2.73	309.87	-6,073.82	5,000.92	4,967.24	33.68	148.499		
5,000.00	4,830.55	4,422.71	4,392.78	27.03	16.61	2.76	311.89	-6,076.73	4,976.98	4,942.71	34.28	145.200		
5,100.00	4,925.72	4,475.00	4,444.82	27.69	16.81	2.80	314.84	-6,080.95	4,954.25	4,919.35	34.90	141.944		
5,200.00	5,020.88	4,537.70	4,507.12	28.35	17.06	2.86	319.17	-6,086.46	4,932.35	4,896.78	35.57	138.680		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 524-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	4,687.25	4,655.59	29.01	17.66	3.04	332.38	-6,098.50	4,909.95	4,873.44	36.51	134.471		
5,400.00	5,211.21	4,761.00	4,728.70	29.67	17.96	3.14	340.11	-6,104.39	4,887.60	4,850.38	37.22	131.317		
5,500.00	5,306.38	4,820.97	4,788.12	30.33	18.21	3.22	346.41	-6,109.54	4,865.83	4,827.95	37.88	128.443		
5,600.00	5,401.54	5,002.13	4,967.87	30.99	18.94	3.46	363.97	-6,123.60	4,843.20	4,804.27	38.94	124.392		
5,700.00	5,496.71	5,077.44	5,042.45	31.65	19.24	-0.87	372.96	-6,128.91	4,820.20	4,780.55	39.65	121.562		
5,800.00	5,591.13	5,154.15	5,118.42	32.30	19.55	-30.24	381.87	-6,134.71	4,797.04	4,756.69	40.36	118.870		
5,900.00	5,682.22	5,271.29	5,234.66	32.92	20.02	-49.80	392.96	-6,143.88	4,773.57	4,732.42	41.15	116.012		
6,000.00	5,767.23	5,403.99	5,366.75	33.50	20.54	-62.50	401.54	-6,153.23	4,749.55	4,707.60	41.95	113.206		
6,100.00	5,843.56	5,764.00	5,725.15	34.04	21.70	-73.56	387.99	-6,168.21	4,723.93	4,680.73	43.19	109.364		
6,200.00	5,908.90	5,782.35	5,743.01	34.53	21.74	-79.61	383.83	-6,168.72	4,701.13	4,657.38	43.75	107.450		
6,300.00	5,961.25	5,797.12	5,757.24	34.99	21.78	-83.74	379.89	-6,169.19	4,683.75	4,639.34	44.40	105.478		
6,400.00	5,999.04	5,811.00	5,770.47	35.42	21.81	-86.37	375.72	-6,169.68	4,672.55	4,627.37	45.18	103.416		
6,500.00	6,021.11	5,811.00	5,770.47	35.83	21.81	-87.53	375.72	-6,169.68	4,667.97	4,621.91	46.06	101.343		
6,519.31	6,023.55	5,811.00	5,770.47	35.90	21.81	-87.60	375.72	-6,169.68	4,667.86	4,621.61	46.25	100.933 CC, ES		
6,600.00	6,027.00	5,790.58	5,750.96	36.24	21.76	-87.33	381.70	-6,168.98	4,670.03	4,623.02	47.00	99.352		
6,700.00	6,027.00	5,781.71	5,742.40	36.68	21.74	-87.23	383.98	-6,168.70	4,675.85	4,627.76	48.09	97.222		
6,800.00	6,027.00	5,764.00	5,725.15	37.20	21.70	-87.02	387.99	-6,168.21	4,683.80	4,634.50	49.30	95.012		
6,900.00	6,027.00	5,764.00	5,725.15	37.80	21.70	-87.02	387.99	-6,168.21	4,693.76	4,643.12	50.64	92.692		
7,000.00	6,027.00	5,764.00	5,725.15	38.47	21.70	-87.02	387.99	-6,168.21	4,705.82	4,653.75	52.07	90.375		
7,100.00	6,027.00	5,764.00	5,725.15	39.21	21.70	-87.02	387.99	-6,168.21	4,719.97	4,666.40	53.57	88.103		
7,200.00	6,027.00	5,764.00	5,725.15	40.02	21.70	-87.02	387.99	-6,168.21	4,736.19	4,681.06	55.13	85.902		
7,300.00	6,027.00	5,745.51	5,707.00	40.89	21.65	-86.79	391.49	-6,167.78	4,754.33	4,697.63	56.70	83.850		
7,400.00	6,027.00	5,741.05	5,702.61	41.83	21.64	-86.74	392.25	-6,167.69	4,774.54	4,716.22	58.33	81.856		
7,500.00	6,027.00	5,736.97	5,698.58	42.83	21.63	-86.69	392.91	-6,167.61	4,796.74	4,736.77	59.98	79.973		
7,600.00	6,027.00	5,716.00	5,677.83	43.88	21.58	-86.44	395.89	-6,167.27	4,821.03	4,759.43	61.61	78.253		
7,700.00	6,027.00	5,716.00	5,677.83	44.99	21.58	-86.44	395.89	-6,167.27	4,847.08	4,783.79	63.29	76.590		
7,800.00	6,027.00	5,716.00	5,677.83	46.14	21.58	-86.44	395.89	-6,167.27	4,875.04	4,810.08	64.96	75.044		
7,900.00	6,027.00	5,716.00	5,677.83	47.33	21.58	-86.44	395.89	-6,167.27	4,904.88	4,838.25	66.63	73.611		
8,000.00	6,027.00	5,716.00	5,677.83	48.57	21.58	-86.44	395.89	-6,167.27	4,936.56	4,868.27	68.29	72.288		
8,100.00	6,027.00	5,716.00	5,677.83	49.84	21.58	-86.44	395.89	-6,167.27	4,970.06	4,900.12	69.93	71.070		
8,200.00	6,027.00	5,716.00	5,677.83	51.15	21.58	-86.44	395.89	-6,167.27	5,005.32	4,933.77	71.55	69.953		
8,300.00	6,027.00	5,716.00	5,677.83	52.48	21.58	-86.44	395.89	-6,167.27	5,042.33	4,969.18	73.15	68.930		
8,400.00	6,027.00	5,716.00	5,677.83	53.85	21.58	-86.44	395.89	-6,167.27	5,081.03	5,006.31	74.72	67.997		
8,500.00	6,027.00	5,716.00	5,677.83	55.24	21.58	-86.44	395.89	-6,167.27	5,121.40	5,045.13	76.27	67.149		
8,600.00	6,027.00	5,699.28	5,661.23	56.65	21.53	-86.23	397.89	-6,167.06	5,163.30	5,085.56	77.75	66.412		
8,700.00	6,027.00	5,695.64	5,657.61	58.08	21.52	-86.19	398.30	-6,167.02	5,206.83	5,127.61	79.22	65.724		
8,800.00	6,027.00	5,692.13	5,654.13	59.54	21.51	-86.14	398.69	-6,166.99	5,251.89	5,171.22	80.67	65.106		
8,900.00	6,027.00	5,688.76	5,650.78	61.01	21.50	-86.10	399.06	-6,166.95	5,298.45	5,216.37	82.08	64.554		
9,000.00	6,027.00	5,685.51	5,647.55	62.50	21.50	-86.06	399.41	-6,166.92	5,346.47	5,263.01	83.46	64.064		
9,100.00	6,027.00	5,668.00	5,630.13	64.01	21.45	-85.85	401.18	-6,166.79	5,395.97	5,311.21	84.77	63.657		
9,200.00	6,027.00	5,668.00	5,630.13	65.53	21.45	-85.85	401.18	-6,166.79	5,446.77	5,360.69	86.08	63.274		
9,300.00	6,027.00	5,668.00	5,630.13	67.06	21.45	-85.85	401.18	-6,166.79	5,498.91	5,411.55	87.36	62.943		
9,400.00	6,027.00	5,668.00	5,630.13	68.61	21.45	-85.85	401.18	-6,166.79	5,552.37	5,463.76	88.61	62.661		
9,500.00	6,027.00	5,668.00	5,630.13	70.17	21.45	-85.85	401.18	-6,166.79	5,607.10	5,517.28	89.82	62.425		
9,600.00	6,027.00	5,668.00	5,630.13	71.73	21.45	-85.85	401.18	-6,166.79	5,663.07	5,572.07	91.00	62.232		
9,700.00	6,027.00	5,668.00	5,630.13	73.31	21.45	-85.85	401.18	-6,166.79	5,720.23	5,628.09	92.14	62.080		
9,800.00	6,027.00	5,668.00	5,630.13	74.90	21.45	-85.85	401.18	-6,166.79	5,778.57	5,685.31	93.25	61.966		
9,900.00	6,027.00	5,668.00	5,630.13	76.50	21.45	-85.85	401.18	-6,166.79	5,838.03	5,743.70	94.33	61.889		
10,000.00	6,027.00	5,653.31	5,615.49	78.10	21.41	-85.67	402.47	-6,166.65	5,898.54	5,803.20	95.34	61.869		
10,100.00	6,027.00	5,650.27	5,612.47	79.71	21.40	-85.63	402.71	-6,166.60	5,960.14	5,863.80	96.34	61.863 SF		
10,200.00	6,027.00	5,647.47	5,609.68	81.33	21.39	-85.60	402.92	-6,166.56	6,022.77	5,925.45	97.32	61.887		
10,300.00	6,027.00	5,644.88	5,607.09	82.96	21.38	-85.57	403.11	-6,166.52	6,086.39	5,988.12	98.26	61.939		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 524-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,642.47	5,604.68	84.59	21.38	-85.54	403.28	-6,166.47	6,150.97	6,051.79	99.18	62.018		
10,500.00	6,027.00	5,640.22	5,602.44	86.23	21.37	-85.51	403.43	-6,166.43	6,216.49	6,116.43	100.07	62.123		
10,600.00	6,027.00	5,638.12	5,600.35	87.87	21.36	-85.49	403.57	-6,166.39	6,282.92	6,181.99	100.93	62.252		
10,700.00	6,027.00	5,620.00	5,582.26	89.52	21.31	-85.26	404.56	-6,165.93	6,350.29	6,248.58	101.72	62.432		
10,800.00	6,027.00	5,620.00	5,582.26	91.17	21.31	-85.26	404.56	-6,165.93	6,418.44	6,315.91	102.53	62.603		
10,900.00	6,027.00	5,620.00	5,582.26	92.83	21.31	-85.26	404.56	-6,165.93	6,487.40	6,384.09	103.31	62.795		
11,000.00	6,027.00	5,620.00	5,582.26	94.49	21.31	-85.26	404.56	-6,165.93	6,557.17	6,453.10	104.07	63.007		
11,100.00	6,027.00	5,620.00	5,582.26	96.16	21.31	-85.26	404.56	-6,165.93	6,627.71	6,522.90	104.81	63.237		
11,200.00	6,027.00	5,620.00	5,582.26	97.83	21.31	-85.26	404.56	-6,165.93	6,699.00	6,593.48	105.52	63.486		
11,300.00	6,027.00	5,620.00	5,582.26	99.50	21.31	-85.26	404.56	-6,165.93	6,771.02	6,664.81	106.21	63.752		
11,400.00	6,027.00	5,620.00	5,582.26	101.18	21.31	-85.26	404.56	-6,165.93	6,843.74	6,736.87	106.88	64.035		
11,500.00	6,027.00	5,620.00	5,582.26	102.86	21.31	-85.26	404.56	-6,165.93	6,917.15	6,809.62	107.52	64.333		
11,600.00	6,027.00	5,620.00	5,582.26	104.54	21.31	-85.26	404.56	-6,165.93	6,991.21	6,883.06	108.15	64.646		
11,700.00	6,027.00	5,620.00	5,582.26	106.23	21.31	-85.26	404.56	-6,165.93	7,065.91	6,957.16	108.75	64.973		
11,800.00	6,027.00	5,620.00	5,582.26	107.92	21.31	-85.26	404.56	-6,165.93	7,141.23	7,031.89	109.34	65.314		
11,900.00	6,027.00	5,620.00	5,582.26	109.61	21.31	-85.26	404.56	-6,165.93	7,217.15	7,107.24	109.90	65.667		
12,000.00	6,027.00	5,620.00	5,582.26	111.31	21.31	-85.26	404.56	-6,165.93	7,293.65	7,183.20	110.45	66.033		
12,100.00	6,027.00	5,620.00	5,582.26	113.00	21.31	-85.26	404.56	-6,165.93	7,370.71	7,259.73	110.99	66.411		
12,200.00	6,027.00	5,620.00	5,582.26	114.71	21.31	-85.26	404.56	-6,165.93	7,448.32	7,336.82	111.50	66.800		
12,300.00	6,027.00	5,620.00	5,582.26	116.41	21.31	-85.26	404.56	-6,165.93	7,526.46	7,414.46	112.00	67.200		
12,400.00	6,027.00	5,620.00	5,582.26	118.11	21.31	-85.26	404.56	-6,165.93	7,605.11	7,492.62	112.48	67.610		
12,500.00	6,027.00	5,620.00	5,582.26	119.82	21.31	-85.26	404.56	-6,165.93	7,684.25	7,571.30	112.95	68.030		
12,600.00	6,027.00	5,620.00	5,582.26	121.53	21.31	-85.26	404.56	-6,165.93	7,763.88	7,650.47	113.41	68.460		
12,700.00	6,027.00	5,620.00	5,582.26	123.24	21.31	-85.26	404.56	-6,165.93	7,843.97	7,730.13	113.85	68.899		
12,800.00	6,027.00	5,620.00	5,582.26	124.95	21.31	-85.26	404.56	-6,165.93	7,924.52	7,810.24	114.27	69.346		
12,900.00	6,027.00	5,620.00	5,582.26	126.66	21.31	-85.26	404.56	-6,165.93	8,005.50	7,890.81	114.69	69.802		
13,000.00	6,027.00	5,620.00	5,582.26	128.38	21.31	-85.26	404.56	-6,165.93	8,086.91	7,971.82	115.09	70.266		
13,100.00	6,027.00	5,620.00	5,582.26	130.10	21.31	-85.26	404.56	-6,165.93	8,168.74	8,053.26	115.48	70.738		
13,200.00	6,027.00	5,620.00	5,582.26	131.82	21.31	-85.26	404.56	-6,165.93	8,250.96	8,135.10	115.86	71.217		
13,300.00	6,027.00	5,620.00	5,582.26	133.54	21.31	-85.26	404.56	-6,165.93	8,333.57	8,217.35	116.22	71.703		
13,400.00	6,027.00	5,620.00	5,582.26	135.26	21.31	-85.26	404.56	-6,165.93	8,416.56	8,299.98	116.58	72.196		
13,500.00	6,027.00	5,620.00	5,582.26	136.98	21.31	-85.26	404.56	-6,165.93	8,499.92	8,382.99	116.93	72.695		
13,600.00	6,027.00	5,620.00	5,582.26	138.71	21.31	-85.26	404.56	-6,165.93	8,583.63	8,466.37	117.26	73.201		
13,700.00	6,027.00	5,620.00	5,582.26	140.43	21.31	-85.26	404.56	-6,165.93	8,667.68	8,550.10	117.59	73.713		
13,800.00	6,027.00	5,620.00	5,582.26	142.16	21.31	-85.26	404.56	-6,165.93	8,752.08	8,634.17	117.90	74.231		
13,900.00	6,027.00	5,620.00	5,582.26	143.89	21.31	-85.26	404.56	-6,165.93	8,836.79	8,718.58	118.21	74.755		
14,000.00	6,027.00	5,620.00	5,582.26	145.62	21.31	-85.26	404.56	-6,165.93	8,921.83	8,803.32	118.51	75.284		
14,100.00	6,027.00	5,620.00	5,582.26	147.35	21.31	-85.26	404.56	-6,165.93	9,007.17	8,888.37	118.80	75.818		
14,200.00	6,027.00	5,620.00	5,582.26	149.08	21.31	-85.26	404.56	-6,165.93	9,092.81	8,973.73	119.08	76.357		
14,300.00	6,027.00	5,620.00	5,582.26	150.81	21.31	-85.26	404.56	-6,165.93	9,178.74	9,059.38	119.36	76.901		
14,400.00	6,027.00	5,620.00	5,582.26	152.54	21.31	-85.26	404.56	-6,165.93	9,264.95	9,145.33	119.62	77.450		
14,500.00	6,027.00	5,620.00	5,582.26	154.28	21.31	-85.26	404.56	-6,165.93	9,351.44	9,231.56	119.88	78.004		
14,600.00	6,027.00	5,620.00	5,582.26	156.01	21.31	-85.26	404.56	-6,165.93	9,438.19	9,318.06	120.14	78.562		
14,700.00	6,027.00	5,620.00	5,582.26	157.75	21.31	-85.26	404.56	-6,165.93	9,525.21	9,404.82	120.38	79.124		
14,800.00	6,027.00	5,620.00	5,582.26	159.49	21.31	-85.26	404.56	-6,165.93	9,612.48	9,491.85	120.62	79.690		
14,900.00	6,027.00	5,620.00	5,582.26	161.22	21.31	-85.26	404.56	-6,165.93	9,699.99	9,579.13	120.86	80.260		
15,000.00	6,027.00	5,620.00	5,582.26	162.96	21.31	-85.26	404.56	-6,165.93	9,787.74	9,666.65	121.09	80.833		
15,100.00	6,027.00	5,620.00	5,582.26	164.70	21.31	-85.26	404.56	-6,165.93	9,875.72	9,754.42	121.31	81.411		
15,200.00	6,027.00	5,620.00	5,582.26	166.44	21.31	-85.26	404.56	-6,165.93	9,963.94	9,842.41	121.52	81.992		
15,300.00	6,027.00	5,620.00	5,582.26	168.18	21.31	-85.26	404.56	-6,165.93	10,052.37	9,930.63	121.73	82.576		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 509-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	42.26	42.26	0.27	0.07	-89.37	62.62	-5,675.63	5,675.97	5,675.63	0.34	N/A		
200.00	200.00	145.32	145.32	0.63	0.25	-89.36	62.94	-5,675.57	5,675.92	5,675.04	0.88	6,453.497		
300.00	300.00	248.37	248.37	0.99	0.43	-89.36	63.63	-5,675.46	5,675.82	5,674.40	1.42	4,006.003		
400.00	400.00	351.43	351.42	1.34	0.61	-89.35	64.67	-5,675.29	5,675.66	5,673.71	1.95	2,904.440		
500.00	500.00	454.47	454.45	1.70	0.79	-89.33	66.08	-5,675.05	5,675.45	5,672.96	2.49	2,277.997		
592.40	592.40	530.40	530.37	2.03	0.96	-89.32	67.33	-5,674.88	5,675.28	5,672.29	2.99	1,895.867		
600.00	600.00	534.52	534.49	2.06	0.97	-89.32	67.39	-5,674.88	5,675.29	5,672.25	3.04	1,869.677		
700.00	700.00	1,754.13	1,744.85	2.42	5.67	-88.84	112.73	-5,565.58	5,675.11	5,667.35	7.77	730.737		
800.00	800.00	1,795.00	1,784.85	2.78	5.86	-88.80	116.01	-5,557.85	5,656.21	5,647.93	8.28	683.359		
900.00	900.00	2,139.81	2,121.55	3.14	7.50	-88.55	139.15	-5,487.60	5,636.75	5,626.83	9.92	568.055		
1,000.00	999.98	2,207.07	2,187.01	3.49	7.84	0.75	142.27	-5,472.44	5,612.61	5,602.08	10.53	532.999		
1,100.00	1,099.84	2,324.61	2,301.44	3.83	8.43	0.82	147.61	-5,446.15	5,585.29	5,573.97	11.32	493.305		
1,200.00	1,199.45	2,404.59	2,379.15	4.19	8.84	0.89	152.54	-5,427.90	5,554.24	5,542.26	11.98	463.622		
1,300.00	1,298.70	2,461.00	2,434.08	4.55	9.13	0.95	156.31	-5,415.64	5,520.77	5,508.22	12.55	439.849		
1,400.00	1,397.47	2,461.00	2,434.08	4.94	9.13	0.97	156.31	-5,415.64	5,484.92	5,472.01	12.91	424.803		
1,500.00	1,495.62	2,530.07	2,501.56	5.34	9.47	1.04	160.65	-5,401.59	5,446.51	5,432.98	13.53	402.618		
1,600.00	1,593.06	2,610.37	2,580.18	5.78	9.86	1.12	165.61	-5,386.02	5,405.67	5,391.48	14.19	381.075		
1,700.00	1,689.64	2,652.00	2,620.90	6.24	10.06	1.18	168.44	-5,377.84	5,361.76	5,347.06	14.70	364.725		
1,800.00	1,785.27	2,691.33	2,659.44	6.75	10.25	1.24	171.09	-5,370.47	5,315.57	5,300.35	15.21	349.409		
1,900.00	1,880.44	2,886.88	2,851.27	7.30	11.19	1.43	184.31	-5,335.10	5,269.02	5,252.74	16.28	323.675		
2,000.00	1,975.60	2,938.00	2,901.29	7.86	11.44	1.49	188.44	-5,325.45	5,220.89	5,204.06	16.83	310.215		
2,100.00	2,070.77	3,008.55	2,970.38	8.43	11.79	1.58	194.43	-5,312.47	5,173.32	5,155.87	17.46	296.320		
2,200.00	2,165.93	3,034.00	2,995.26	9.02	11.91	1.62	196.72	-5,307.65	5,125.86	5,107.93	17.93	285.886		
2,300.00	2,261.10	3,089.57	3,049.69	9.62	12.18	1.69	201.75	-5,297.63	5,079.00	5,060.48	18.52	274.314		
2,400.00	2,356.26	3,315.11	3,270.51	10.23	13.29	2.01	222.36	-5,256.80	5,032.15	5,012.44	19.71	255.274		
2,500.00	2,451.43	3,469.33	3,420.53	10.84	14.09	2.27	239.02	-5,225.19	4,982.84	4,962.17	20.67	241.089		
2,600.00	2,546.59	3,598.96	3,546.27	11.46	14.78	2.51	254.03	-5,197.45	4,932.91	4,911.38	21.54	229.024		
2,700.00	2,641.76	3,675.04	3,620.14	12.09	15.18	2.64	261.44	-5,180.85	4,882.56	4,860.35	22.22	219.759		
2,800.00	2,736.92	3,828.07	3,768.46	12.72	16.01	2.90	276.36	-5,146.29	4,831.41	4,808.25	23.16	208.601		
2,900.00	2,832.09	3,866.40	3,805.65	13.35	16.21	2.96	279.67	-5,137.66	4,780.46	4,756.74	23.72	201.572		
3,000.00	2,927.25	3,895.00	3,833.48	13.99	16.37	3.00	282.06	-5,131.46	4,730.40	4,706.16	24.24	195.124		
3,100.00	3,022.42	3,951.25	3,888.31	14.63	16.66	3.09	286.56	-5,119.79	4,681.10	4,656.24	24.86	188.287		
3,200.00	3,117.58	4,140.59	4,072.46	15.27	17.66	3.40	302.93	-5,078.98	4,630.79	4,604.88	25.92	178.689		
3,300.00	3,212.75	4,182.00	4,112.63	15.91	17.88	3.48	307.06	-5,069.86	4,580.43	4,553.93	26.50	172.842		
3,400.00	3,307.91	4,232.28	4,161.53	16.56	18.15	3.58	311.97	-5,059.21	4,530.84	4,503.72	27.12	167.091		
3,500.00	3,403.08	4,277.00	4,205.12	17.20	18.38	3.66	316.07	-5,050.13	4,482.01	4,454.29	27.72	161.704		
3,600.00	3,498.24	4,328.42	4,255.38	17.85	18.64	3.75	320.39	-5,040.14	4,433.95	4,405.62	28.34	156.469		
3,700.00	3,593.41	4,372.00	4,298.08	18.50	18.86	3.82	323.63	-5,032.06	4,386.70	4,357.76	28.94	151.595		
3,800.00	3,688.57	4,423.99	4,349.13	19.15	19.10	3.90	327.18	-5,022.92	4,340.26	4,310.70	29.56	146.833		
3,900.00	3,783.74	4,538.57	4,461.80	19.81	19.65	4.07	335.11	-5,003.63	4,294.62	4,264.25	30.37	141.416		
4,000.00	3,878.90	4,606.42	4,528.29	20.46	19.98	4.20	341.00	-4,991.48	4,248.07	4,217.02	31.05	136.814		
4,100.00	3,974.07	4,659.00	4,579.91	21.11	20.23	4.30	345.73	-4,982.67	4,202.46	4,170.77	31.69	132.607		
4,200.00	4,069.23	4,752.79	4,672.14	21.77	20.68	4.46	352.75	-4,967.16	4,157.04	4,124.59	32.45	128.119		
4,300.00	4,164.40	4,829.43	4,747.62	22.42	21.03	4.57	356.92	-4,954.52	4,111.59	4,078.45	33.14	124.049		
4,400.00	4,259.56	4,919.66	4,836.60	23.08	21.44	4.69	360.90	-4,940.15	4,066.56	4,032.68	33.87	120.048		
4,500.00	4,354.73	4,979.07	4,895.22	23.74	21.71	4.76	363.25	-4,930.73	4,021.63	3,987.10	34.53	116.476		
4,600.00	4,449.89	5,041.00	4,956.39	24.39	21.98	4.85	366.43	-4,921.66	3,977.72	3,942.53	35.19	113.033		
4,700.00	4,545.06	5,070.75	4,985.82	25.05	22.11	4.90	368.11	-4,917.61	3,934.68	3,898.91	35.77	109.988		
4,800.00	4,640.22	5,136.00	5,050.48	25.71	22.38	4.99	371.43	-4,909.51	3,892.81	3,856.36	36.45	106.804		
4,900.00	4,735.39	5,171.08	5,085.29	26.37	22.52	5.04	373.02	-4,905.53	3,851.76	3,814.72	37.04	103.981		
5,000.00	4,830.55	5,231.00	5,144.83	27.03	22.76	5.12	375.48	-4,899.19	3,811.62	3,773.92	37.70	101.102		
5,100.00	4,925.72	5,293.68	5,207.16	27.69	23.00	5.19	377.92	-4,893.07	3,772.22	3,733.86	38.36	98.327		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 17-T5N-R61W - EXIST HZ PRONGHORN 21-24-17HNB - OWB - FINAL SURVEY		Offset Site Error:		0.00 usft										
Survey Program:		509-MWD OWSG											Offset Well Error:		0.00 usft												
Reference		Offset		Semi Major Axis			Distance							Warning													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor															
5,200.00	5,020.88	5,328.00	5,241.30	28.35	23.13	5.24	379.29	-4,889.89	3,733.66	3,694.70	38.96	95.841															
5,300.00	5,116.05	5,368.12	5,281.28	29.01	23.27	5.29	380.72	-4,886.78	3,696.44	3,656.88	39.56	93.447															
5,400.00	5,211.21	5,423.00	5,336.08	29.67	23.46	5.34	382.09	-4,884.28	3,661.29	3,621.10	40.19	91.095															
5,500.00	5,306.38	5,423.00	5,336.08	30.33	23.46	5.34	382.09	-4,884.28	3,627.15	3,586.47	40.68	89.160															
5,600.00	5,401.54	5,511.37	5,424.41	30.99	23.73	5.41	383.43	-4,882.01	3,594.28	3,552.89	41.39	86.842															
5,700.00	5,496.71	5,602.46	5,515.37	31.65	23.98	0.79	379.97	-4,880.33	3,561.56	3,519.50	42.06	84.674															
															5,800.00	5,591.13	5,639.83	5,552.46	32.30	24.06	-29.80	375.49	-4,880.18	3,528.71	3,486.15	42.56	82.913
															5,900.00	5,682.22	5,675.81	5,587.90	32.92	24.14	-50.28	369.30	-4,880.91	3,497.03	3,454.06	42.97	81.383
															6,000.00	5,767.23	6,114.34	5,949.97	33.50	24.55	-69.67	139.42	-4,881.95	3,465.15	3,421.65	43.50	79.658
															6,100.00	5,843.56	6,113.96	5,949.73	34.04	24.55	-78.36	139.72	-4,881.96	3,435.91	3,391.92	43.99	78.098
6,200.00	5,908.90	6,093.00	5,936.52	34.53	24.54	-83.78	155.97	-4,882.78	3,413.58	3,369.06	44.52	76.670															
6,300.00	5,961.25	6,093.00	5,936.52	34.99	24.54	-87.46	155.97	-4,882.78	3,398.69	3,353.47	45.22	75.165															
6,400.00	5,999.04	6,071.06	5,922.17	35.42	24.53	-89.15	172.53	-4,883.80	3,391.78	3,345.79	45.99	73.745															
6,437.17	6,009.13	6,060.91	5,915.39	35.56	24.52	-89.40	180.08	-4,884.30	3,391.24	3,344.92	46.31	73.222 CC, ES															
6,500.00	6,021.11	5,804.00	5,709.49	35.83	24.32	-85.82	330.64	-4,885.97	3,392.49	3,346.26	46.22	73.394															
6,600.00	6,027.00	5,777.33	5,685.37	36.24	24.29	-85.21	341.92	-4,884.67	3,397.38	3,350.23	47.15	72.062															
															6,700.00	6,027.00	5,757.00	5,666.44	36.68	24.27	-84.89	349.27	-4,883.76	3,406.52	3,358.30	48.22	70.640
															6,800.00	6,027.00	5,757.00	5,666.44	37.20	24.27	-84.89	349.27	-4,883.76	3,418.42	3,368.93	49.49	69.066
															6,900.00	6,027.00	5,757.00	5,666.44	37.80	24.27	-84.89	349.27	-4,883.76	3,433.19	3,382.31	50.88	67.478
															7,000.00	6,027.00	5,733.66	5,644.24	38.47	24.23	-84.52	356.42	-4,882.80	3,450.52	3,398.25	52.27	66.018
7,100.00	6,027.00	5,709.00	5,620.37	39.21	24.19	-84.12	362.52	-4,881.91	3,470.84	3,417.13	53.71	64.618															
7,200.00	6,027.00	5,709.00	5,620.37	40.02	24.19	-84.12	362.52	-4,881.91	3,493.61	3,438.31	55.30	63.181															
7,300.00	6,027.00	5,709.00	5,620.37	40.89	24.19	-84.12	362.52	-4,881.91	3,519.07	3,462.16	56.91	61.837															
7,400.00	6,027.00	5,709.00	5,620.37	41.83	24.19	-84.12	362.52	-4,881.91	3,547.17	3,488.63	58.54	60.593															
7,500.00	6,027.00	5,709.00	5,620.37	42.83	24.19	-84.12	362.52	-4,881.91	3,577.84	3,517.66	60.18	59.455															
7,600.00	6,027.00	5,692.87	5,604.62	43.88	24.17	-83.85	365.92	-4,881.40	3,610.93	3,549.18	61.75	58.481															
															7,700.00	6,027.00	5,685.50	5,597.39	44.99	24.15	-83.73	367.41	-4,881.18	3,646.44	3,583.10	63.33	57.574
															7,800.00	6,027.00	5,678.53	5,590.57	46.14	24.14	-83.61	368.77	-4,880.99	3,684.28	3,619.38	64.90	56.765
															7,900.00	6,027.00	5,661.00	5,573.35	47.33	24.11	-83.32	372.03	-4,880.53	3,724.44	3,658.04	66.40	56.087
															8,000.00	6,027.00	5,661.00	5,573.35	48.57	24.11	-83.32	372.03	-4,880.53	3,766.71	3,698.76	67.95	55.437
8,100.00	6,027.00	5,661.00	5,573.35	49.84	24.11	-83.32	372.03	-4,880.53	3,811.13	3,741.68	69.45	54.874															
8,200.00	6,027.00	5,661.00	5,573.35	51.15	24.11	-83.32	372.03	-4,880.53	3,857.64	3,786.72	70.92	54.394															
8,300.00	6,027.00	5,661.00	5,573.35	52.48	24.11	-83.32	372.03	-4,880.53	3,906.15	3,833.80	72.35	53.991															
8,400.00	6,027.00	5,661.00	5,573.35	53.85	24.11	-83.32	372.03	-4,880.53	3,956.60	3,882.86	73.73	53.660															
8,500.00	6,027.00	5,661.00	5,573.35	55.24	24.11	-83.32	372.03	-4,880.53	4,008.91	3,933.83	75.08	53.397															
8,600.00	6,027.00	5,661.00	5,573.35	56.65	24.11	-83.32	372.03	-4,880.53	4,063.00	3,986.62	76.38	53.197															
															8,700.00	6,027.00	5,661.00	5,573.35	58.08	24.11	-83.32	372.03	-4,880.53	4,118.81	4,041.18	77.63	53.056
															8,800.00	6,027.00	5,661.00	5,573.35	59.54	24.11	-83.32	372.03	-4,880.53	4,176.27	4,097.43	78.84	52.970
															8,900.00	6,027.00	5,661.00	5,573.35	61.01	24.11	-83.32	372.03	-4,880.53	4,235.32	4,155.31	80.01	52.935 SF
															9,000.00	6,027.00	5,638.92	5,551.56	62.50	24.06	-82.96	375.62	-4,880.17	4,295.45	4,214.41	81.05	53.000
9,100.00	6,027.00	5,637.00	5,549.66	64.01	24.06	-82.93	375.90	-4,880.16	4,357.39	4,275.26	82.12	53.060															
9,200.00	6,027.00	5,635.15	5,547.84	65.53	24.05	-82.89	376.16	-4,880.15	4,420.71	4,337.55	83.15	53.163															
9,300.00	6,027.00	5,613.00	5,525.86	67.06	24.01	-82.53	378.91	-4,880.21	4,485.72	4,401.66	84.07	53.358															
9,400.00	6,027.00	5,613.00	5,525.86	68.61	24.01	-82.53	378.91	-4,880.21	4,551.59	4,466.56	85.03	53.530															
9,500.00	6,027.00	5,613.00	5,525.86	70.17	24.01	-82.53	378.91	-4,880.21	4,618.69	4,532.74	85.95	53.736															
9,600.00	6,027.00	5,613.00	5,525.86	71.73	24.01	-82.53	378.91	-4,880.21	4,686.95	4,600.12	86.84	53.974															
															9,700.00	6,027.00	5,613.00	5,525.86	73.31	24.01	-82.53	378.91	-4,880.21	4,756.34	4,668.66	87.69	54.243
															9,800.00	6,027.00	5,613.00	5,525.86	74.90	24.01	-82.53	378.91	-4,880.21	4,826.81	4,738.31	88.50	54.540
															9,900.00	6,027.00	5,613.00	5,525.86	76.50	24.01	-82.53	378.91	-4,880.21	4,898.30	4,809.02	89.28	54.864
															10,000.00	6,027.00	5,613.00	5,525.86	78.10	24.01	-82.53	378.91	-4,880.21	4,970.78	4,880.75	90.03	55.212
10,100.00	6,027.00	5,613.00	5,525.86	79.71	24.01	-82.53	378.91	-4,880.21	5,044.19	4,953.44	90.75	55.584															
10,200.00	6,027.00	5,613.00	5,525.86	81.33	24.01	-82.53	378.91	-4,880.21	5,118.51	5,027.07	91.44	55.978															

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													SEC 17-T5N-R61W - EXIST HZ PRONGHORN 21-24-17HNB - OWB - FINAL SURVEY		Offset Site Error:		0.00 usft
Survey Program: 509-MWD OWSG														Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
10,300.00	6,027.00	5,613.00	5,525.86	82.96	24.01	-82.53	378.91	-4,880.21	5,193.69	5,101.59	92.10	56.393					
10,400.00	6,027.00	5,613.00	5,525.86	84.59	24.01	-82.53	378.91	-4,880.21	5,269.70	5,176.96	92.73	56.828					
10,500.00	6,027.00	5,613.00	5,525.86	86.23	24.01	-82.53	378.91	-4,880.21	5,346.49	5,253.15	93.34	57.281					
10,600.00	6,027.00	5,613.00	5,525.86	87.87	24.01	-82.53	378.91	-4,880.21	5,424.04	5,330.12	93.92	57.751					
10,700.00	6,027.00	5,613.00	5,525.86	89.52	24.01	-82.53	378.91	-4,880.21	5,502.32	5,407.84	94.48	58.238					
10,800.00	6,027.00	5,613.00	5,525.86	91.17	24.01	-82.53	378.91	-4,880.21	5,581.29	5,486.27	95.02	58.741					
10,900.00	6,027.00	5,613.00	5,525.86	92.83	24.01	-82.53	378.91	-4,880.21	5,660.92	5,565.39	95.53	59.258					
11,000.00	6,027.00	5,613.00	5,525.86	94.49	24.01	-82.53	378.91	-4,880.21	5,741.19	5,645.17	96.02	59.789					
11,100.00	6,027.00	5,613.00	5,525.86	96.16	24.01	-82.53	378.91	-4,880.21	5,822.08	5,725.58	96.50	60.333					
11,200.00	6,027.00	5,613.00	5,525.86	97.83	24.01	-82.53	378.91	-4,880.21	5,903.54	5,806.59	96.96	60.889					
11,300.00	6,027.00	5,613.00	5,525.86	99.50	24.01	-82.53	378.91	-4,880.21	5,985.58	5,888.18	97.39	61.458					
11,400.00	6,027.00	5,613.00	5,525.86	101.18	24.01	-82.53	378.91	-4,880.21	6,068.14	5,970.33	97.81	62.037					
11,500.00	6,027.00	5,613.00	5,525.86	102.86	24.01	-82.53	378.91	-4,880.21	6,151.23	6,053.01	98.22	62.628					
11,600.00	6,027.00	5,613.00	5,525.86	104.54	24.01	-82.53	378.91	-4,880.21	6,234.82	6,136.21	98.61	63.228					
11,700.00	6,027.00	5,613.00	5,525.86	106.23	24.01	-82.53	378.91	-4,880.21	6,318.88	6,219.89	98.98	63.838					
11,800.00	6,027.00	5,613.00	5,525.86	107.92	24.01	-82.53	378.91	-4,880.21	6,403.39	6,304.05	99.34	64.457					
11,900.00	6,027.00	5,613.00	5,525.86	109.61	24.01	-82.53	378.91	-4,880.21	6,488.35	6,388.66	99.69	65.085					
12,000.00	6,027.00	5,613.00	5,525.86	111.31	24.01	-82.53	378.91	-4,880.21	6,573.74	6,473.71	100.02	65.721					
12,100.00	6,027.00	5,613.00	5,525.86	113.00	24.01	-82.53	378.91	-4,880.21	6,659.52	6,559.18	100.35	66.365					
12,200.00	6,027.00	5,613.00	5,525.86	114.71	24.01	-82.53	378.91	-4,880.21	6,745.70	6,645.05	100.66	67.017					
12,300.00	6,027.00	5,613.00	5,525.86	116.41	24.01	-82.53	378.91	-4,880.21	6,832.26	6,731.31	100.96	67.675					
12,400.00	6,027.00	5,613.00	5,525.86	118.11	24.01	-82.53	378.91	-4,880.21	6,919.18	6,817.94	101.25	68.341					
12,500.00	6,027.00	5,613.00	5,525.86	119.82	24.01	-82.53	378.91	-4,880.21	7,006.45	6,904.93	101.52	69.012					
12,600.00	6,027.00	5,613.00	5,525.86	121.53	24.01	-82.53	378.91	-4,880.21	7,094.05	6,992.26	101.79	69.691					
12,700.00	6,027.00	5,613.00	5,525.86	123.24	24.01	-82.53	378.91	-4,880.21	7,181.98	7,079.93	102.05	70.375					
12,800.00	6,027.00	5,613.00	5,525.86	124.95	24.01	-82.53	378.91	-4,880.21	7,270.22	7,167.92	102.30	71.064					
12,900.00	6,027.00	5,613.00	5,525.86	126.66	24.01	-82.53	378.91	-4,880.21	7,358.76	7,256.22	102.55	71.759					
13,000.00	6,027.00	5,613.00	5,525.86	128.38	24.01	-82.53	378.91	-4,880.21	7,447.60	7,344.81	102.78	72.460					
13,100.00	6,027.00	5,613.00	5,525.86	130.10	24.01	-82.53	378.91	-4,880.21	7,536.71	7,433.70	103.01	73.165					
13,200.00	6,027.00	5,613.00	5,525.86	131.82	24.01	-82.53	378.91	-4,880.21	7,626.09	7,522.86	103.23	73.875					
13,300.00	6,027.00	5,613.00	5,525.86	133.54	24.01	-82.53	378.91	-4,880.21	7,715.73	7,612.29	103.44	74.589					
13,400.00	6,027.00	5,613.00	5,525.86	135.26	24.01	-82.53	378.91	-4,880.21	7,805.62	7,701.97	103.65	75.308					
13,500.00	6,027.00	5,613.00	5,525.86	136.98	24.01	-82.53	378.91	-4,880.21	7,895.76	7,791.91	103.85	76.031					
13,600.00	6,027.00	5,613.00	5,525.86	138.71	24.01	-82.53	378.91	-4,880.21	7,986.13	7,882.09	104.04	76.758					
13,700.00	6,027.00	5,613.00	5,525.86	140.43	24.01	-82.53	378.91	-4,880.21	8,076.73	7,972.50	104.23	77.488					
13,800.00	6,027.00	5,613.00	5,525.86	142.16	24.01	-82.53	378.91	-4,880.21	8,167.55	8,063.13	104.41	78.223					
13,900.00	6,027.00	5,613.00	5,525.86	143.89	24.01	-82.53	378.91	-4,880.21	8,258.58	8,153.99	104.59	78.960					
14,000.00	6,027.00	5,613.00	5,525.86	145.62	24.01	-82.53	378.91	-4,880.21	8,349.81	8,245.05	104.76	79.701					
14,100.00	6,027.00	5,613.00	5,525.86	147.35	24.01	-82.53	378.91	-4,880.21	8,441.25	8,336.32	104.93	80.446					
14,200.00	6,027.00	5,613.00	5,525.86	149.08	24.01	-82.53	378.91	-4,880.21	8,532.87	8,427.78	105.09	81.193					
14,300.00	6,027.00	5,613.00	5,525.86	150.81	24.01	-82.53	378.91	-4,880.21	8,624.68	8,519.43	105.25	81.943					
14,400.00	6,027.00	5,613.00	5,525.86	152.54	24.01	-82.53	378.91	-4,880.21	8,716.68	8,611.27	105.41	82.696					
14,500.00	6,027.00	5,613.00	5,525.86	154.28	24.01	-82.53	378.91	-4,880.21	8,808.84	8,703.29	105.56	83.452					
14,600.00	6,027.00	5,613.00	5,525.86	156.01	24.01	-82.53	378.91	-4,880.21	8,901.18	8,795.48	105.70	84.210					
14,700.00	6,027.00	5,613.00	5,525.86	157.75	24.01	-82.53	378.91	-4,880.21	8,993.68	8,887.84	105.84	84.971					
14,800.00	6,027.00	5,613.00	5,525.86	159.49	24.01	-82.53	378.91	-4,880.21	9,086.34	8,980.36	105.98	85.734					
14,900.00	6,027.00	5,613.00	5,525.86	161.22	24.01	-82.53	378.91	-4,880.21	9,179.15	9,073.03	106.12	86.499					
15,000.00	6,027.00	5,613.00	5,525.86	162.96	24.01	-82.53	378.91	-4,880.21	9,272.11	9,165.86	106.25	87.267					
15,100.00	6,027.00	5,613.00	5,525.86	164.70	24.01	-82.53	378.91	-4,880.21	9,365.22	9,258.84	106.38	88.037					
15,200.00	6,027.00	5,613.00	5,525.86	166.44	24.01	-82.53	378.91	-4,880.21	9,458.47	9,351.96	106.50	88.808					
15,300.00	6,027.00	5,613.00	5,525.86	168.18	24.01	-82.53	378.91	-4,880.21	9,551.85	9,445.23	106.63	89.582					
15,400.00	6,027.00	5,613.00	5,525.86	169.93	24.01	-82.53	378.91	-4,880.21	9,645.37	9,538.62	106.75	90.357					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		SEC 17-T5N-R61W - EXIST HZ PRONGHORN 21-24-17HNB - OWB - FINAL SURVEY										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		509-MWD OWSG										<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	5,613.00	5,525.86	171.67	24.01	-82.53	378.91	-4,880.21	9,739.02	9,632.15	106.86	91.134	
15,600.00	6,027.00	5,613.00	5,525.86	173.41	24.01	-82.53	378.91	-4,880.21	9,832.79	9,725.81	106.98	91.913	
15,700.00	6,027.00	5,613.00	5,525.86	175.15	24.01	-82.53	378.91	-4,880.21	9,926.68	9,819.59	107.09	92.694	
15,800.00	6,027.00	5,613.00	5,525.86	176.90	24.01	-82.53	378.91	-4,880.21	10,020.69	9,913.49	107.20	93.476	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 495-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	63.64	63.64	0.27	0.11	-88.07	124.12	-3,676.05	3,678.14	3,677.76	0.38	9,673.118		
200.00	200.00	166.30	166.30	0.63	0.29	-88.07	124.03	-3,675.97	3,678.06	3,677.15	0.92	4,004.978		
300.00	300.00	268.95	268.95	0.99	0.47	-88.07	123.85	-3,675.82	3,677.91	3,676.45	1.46	2,525.174		
400.00	400.00	371.60	371.60	1.34	0.65	-88.07	123.58	-3,675.60	3,677.69	3,675.69	1.99	1,843.803		
500.00	500.00	474.25	474.25	1.70	0.83	-88.08	123.22	-3,675.30	3,677.39	3,674.86	2.53	1,451.942		
600.00	600.00	573.86	573.85	2.06	1.15	-88.09	122.77	-3,674.98	3,677.05	3,673.84	3.21	1,145.420		
700.00	700.00	674.76	674.75	2.42	1.51	-88.10	122.15	-3,674.68	3,676.73	3,672.80	3.93	935.435		
800.00	800.00	776.24	776.23	2.78	1.88	-88.11	121.55	-3,674.32	3,676.35	3,671.70	4.65	790.104		
900.00	900.00	874.92	874.90	3.14	2.23	-88.11	120.95	-3,673.97	3,675.99	3,670.62	5.37	685.112		
1,000.00	999.98	977.02	977.01	3.49	2.60	1.13	120.34	-3,673.60	3,673.86	3,667.78	6.08	604.053		
1,100.00	1,099.84	1,076.11	1,076.10	3.83	2.95	1.13	119.76	-3,673.22	3,668.22	3,661.44	6.78	540.800		
1,200.00	1,199.45	1,173.63	1,173.61	4.19	3.30	1.13	119.16	-3,672.88	3,659.15	3,651.66	7.48	489.120		
1,300.00	1,298.70	1,271.13	1,271.11	4.55	3.65	1.12	118.39	-3,672.62	3,646.67	3,638.48	8.18	445.730		
1,400.00	1,397.47	1,371.68	1,371.65	4.94	4.01	1.12	117.56	-3,672.33	3,630.72	3,621.82	8.89	408.194		
1,500.00	1,495.62	1,473.93	1,473.90	5.34	4.38	1.12	116.96	-3,671.95	3,611.26	3,601.64	9.61	375.610		
1,600.00	1,593.06	1,569.52	1,569.49	5.78	4.72	1.14	116.70	-3,671.53	3,588.33	3,578.02	10.31	347.963		
1,700.00	1,689.64	1,668.12	1,668.09	6.24	5.07	1.15	116.35	-3,671.16	3,562.09	3,551.06	11.02	323.185		
1,800.00	1,785.27	1,772.85	1,772.82	6.75	5.44	1.17	116.28	-3,670.53	3,532.28	3,520.52	11.76	300.457		
1,900.00	1,880.44	1,872.35	1,872.32	7.30	5.79	1.18	116.20	-3,669.75	3,500.82	3,488.36	12.46	280.914		
2,000.00	1,975.60	1,961.91	1,961.87	7.86	6.11	1.19	115.99	-3,669.05	3,469.37	3,456.22	13.14	263.982		
2,100.00	2,070.77	2,055.98	2,055.94	8.43	6.45	1.19	115.58	-3,668.45	3,438.03	3,424.18	13.84	248.347		
2,200.00	2,165.93	2,151.17	2,151.12	9.02	6.79	1.19	114.58	-3,667.81	3,406.65	3,392.10	14.55	234.085		
2,300.00	2,261.10	2,241.01	2,240.95	9.62	7.11	1.17	113.34	-3,667.31	3,375.36	3,360.11	15.25	221.367		
2,400.00	2,356.26	2,328.27	2,328.20	10.23	7.42	1.17	112.41	-3,666.98	3,344.25	3,328.32	15.94	209.868		
2,500.00	2,451.43	2,417.90	2,417.83	10.84	7.73	1.18	112.29	-3,666.81	3,313.35	3,296.73	16.63	199.271		
2,600.00	2,546.59	2,510.06	2,510.00	11.46	8.05	1.19	112.40	-3,666.72	3,282.56	3,265.23	17.32	189.490		
2,700.00	2,641.76	2,601.33	2,601.26	12.09	8.35	1.20	112.70	-3,666.73	3,251.86	3,233.85	18.01	180.563		
2,800.00	2,736.92	2,695.74	2,695.67	12.72	8.67	1.23	113.19	-3,666.80	3,221.24	3,202.53	18.71	172.199		
2,900.00	2,832.09	2,828.96	2,828.88	13.35	9.12	1.25	113.87	-3,666.41	3,190.35	3,170.82	19.52	163.411		
3,000.00	2,927.25	2,959.20	2,959.10	13.99	9.57	1.28	114.43	-3,664.10	3,157.93	3,137.58	20.34	155.239		
3,100.00	3,022.42	3,044.45	3,044.34	14.63	9.87	1.30	114.78	-3,662.18	3,125.11	3,104.08	21.03	148.588		
3,200.00	3,117.58	3,118.00	3,117.87	15.27	10.13	1.33	115.81	-3,661.01	3,092.93	3,071.24	21.69	142.601		
3,300.00	3,212.75	3,188.80	3,188.64	15.91	10.37	1.38	117.44	-3,660.37	3,061.44	3,039.10	22.34	137.063		
3,400.00	3,307.91	3,243.00	3,242.82	16.56	10.56	1.42	119.07	-3,660.22	3,030.72	3,007.78	22.94	132.123		
3,500.00	3,403.08	3,309.41	3,309.20	17.20	10.78	1.46	120.96	-3,660.80	3,001.06	2,977.49	23.57	127.308		
3,600.00	3,498.24	3,366.00	3,365.76	17.85	10.97	1.49	122.08	-3,662.23	2,972.81	2,948.63	24.18	122.937		
3,700.00	3,593.41	3,482.01	3,481.71	18.50	11.36	1.53	123.12	-3,665.60	2,944.93	2,919.97	24.95	118.012		
3,800.00	3,688.57	3,615.03	3,614.71	19.15	11.81	1.55	123.20	-3,668.09	2,916.01	2,890.24	25.77	113.147		
3,900.00	3,783.74	3,700.63	3,700.30	19.81	12.10	1.57	123.26	-3,669.28	2,886.63	2,860.17	26.47	109.071		
4,000.00	3,878.90	3,790.19	3,789.85	20.46	12.40	1.59	123.48	-3,670.81	2,857.56	2,830.39	27.17	105.170		
4,100.00	3,974.07	3,896.00	3,895.64	21.11	12.77	1.62	124.03	-3,672.67	2,828.56	2,800.64	27.92	101.312		
4,200.00	4,069.23	4,032.51	4,032.14	21.77	13.24	1.68	125.87	-3,673.34	2,798.32	2,769.57	28.74	97.351		
4,300.00	4,164.40	4,139.29	4,138.91	22.42	13.61	1.71	126.35	-3,673.07	2,767.39	2,737.88	29.50	93.809		
4,400.00	4,259.56	4,247.27	4,246.89	23.08	13.99	1.72	125.47	-3,672.36	2,736.02	2,705.76	30.26	90.414		
4,500.00	4,354.73	4,355.01	4,354.59	23.74	14.37	1.69	123.04	-3,671.21	2,704.21	2,673.19	31.02	87.177		
4,600.00	4,449.89	4,443.26	4,442.80	24.39	14.69	1.65	120.57	-3,670.15	2,672.26	2,640.53	31.74	84.202		
4,700.00	4,545.06	4,534.49	4,534.01	25.05	15.01	1.63	118.88	-3,669.27	2,640.57	2,608.11	32.46	81.347		
4,800.00	4,640.22	4,632.39	4,631.89	25.71	15.36	1.61	117.13	-3,668.30	2,608.85	2,575.65	33.20	78.582		
4,900.00	4,735.39	4,735.31	4,734.79	26.37	15.72	1.59	115.27	-3,667.04	2,576.91	2,542.97	33.95	75.908		
5,000.00	4,830.55	4,828.93	4,828.39	27.03	16.05	1.58	114.19	-3,665.73	2,544.84	2,510.16	34.68	73.385		
5,100.00	4,925.72	4,916.47	4,915.92	27.69	16.36	1.60	114.24	-3,664.58	2,512.89	2,477.49	35.40	70.993		
5,200.00	5,020.88	5,001.34	5,000.79	28.35	16.66	1.63	114.54	-3,663.80	2,481.32	2,445.21	36.11	68.715		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 495-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,092.75	5,092.20	29.01	16.98	1.66	114.93	-3,663.19	2,449.99	2,413.16	36.84	66.511		
5,400.00	5,211.21	5,176.37	5,175.81	29.67	17.27	1.69	115.31	-3,662.85	2,418.92	2,381.38	37.55	64.426		
5,500.00	5,306.38	5,264.72	5,264.16	30.33	17.58	1.72	115.83	-3,662.97	2,388.36	2,350.10	38.26	62.419		
5,600.00	5,401.54	5,379.38	5,378.83	30.99	17.98	1.77	116.58	-3,662.68	2,357.44	2,318.42	39.02	60.413		
5,700.00	5,496.71	5,497.88	5,497.31	31.65	18.39	-2.79	117.36	-3,661.28	2,325.64	2,285.85	39.79	58.452		
5,800.00	5,591.13	5,580.16	5,579.55	32.30	18.68	-33.45	116.45	-3,660.09	2,293.33	2,252.85	40.48	56.647		
5,900.00	5,682.22	5,634.94	5,633.96	32.92	18.88	-54.08	110.32	-3,660.04	2,262.69	2,221.57	41.12	55.029		
6,000.00	5,767.23	5,680.00	5,678.03	33.50	19.04	-67.22	100.98	-3,660.75	2,235.90	2,194.15	41.75	53.554		
6,100.00	5,843.56	5,712.00	5,708.81	34.04	19.15	-75.74	92.29	-3,661.62	2,214.73	2,172.29	42.44	52.189		
6,200.00	5,908.90	5,734.06	5,729.71	34.53	19.23	-81.19	85.28	-3,662.38	2,200.77	2,157.53	43.24	50.893		
6,300.00	5,961.25	5,742.00	5,737.15	34.99	19.25	-84.18	82.53	-3,662.68	2,195.13	2,150.94	44.19	49.671		
6,314.08	5,967.49	5,742.00	5,737.15	35.04	19.25	-84.42	82.53	-3,662.68	2,195.05	2,150.70	44.34	49.502 CC, ES		
6,400.00	5,999.04	5,742.00	5,737.15	35.42	19.25	-85.23	82.53	-3,662.68	2,198.32	2,153.01	45.31	48.518		
6,500.00	6,021.11	5,742.00	5,737.15	35.83	19.25	-84.79	82.53	-3,662.68	2,210.20	2,163.61	46.60	47.434		
6,600.00	6,027.00	5,729.23	5,725.16	36.24	19.21	-83.01	86.90	-3,662.20	2,230.16	2,182.23	47.93	46.527		
6,700.00	6,027.00	5,712.00	5,708.81	36.68	19.15	-82.58	92.29	-3,661.62	2,255.46	2,206.12	49.34	45.713		
6,800.00	6,027.00	5,712.00	5,708.81	37.20	19.15	-82.58	92.29	-3,661.62	2,284.68	2,233.77	50.91	44.881		
6,900.00	6,027.00	5,698.12	5,695.51	37.80	19.10	-82.23	96.25	-3,661.21	2,317.72	2,265.29	52.44	44.199		
7,000.00	6,027.00	5,680.00	5,678.03	38.47	19.04	-81.78	100.98	-3,660.75	2,354.51	2,300.55	53.96	43.636		
7,100.00	6,027.00	5,680.00	5,678.03	39.21	19.04	-81.78	100.98	-3,660.75	2,394.70	2,339.15	55.55	43.106		
7,200.00	6,027.00	5,680.00	5,678.03	40.02	19.04	-81.78	100.98	-3,660.75	2,438.34	2,381.23	57.12	42.691		
7,300.00	6,027.00	5,668.25	5,666.61	40.89	18.99	-81.48	103.77	-3,660.50	2,485.13	2,426.55	58.58	42.426		
7,400.00	6,027.00	5,662.79	5,661.29	41.83	18.98	-81.34	104.98	-3,660.40	2,534.97	2,474.96	60.01	42.243		
7,500.00	6,027.00	5,649.00	5,647.79	42.83	18.93	-80.99	107.80	-3,660.19	2,587.75	2,526.40	61.34	42.185		
7,600.00	6,027.00	5,649.00	5,647.79	43.88	18.93	-80.99	107.80	-3,660.19	2,643.10	2,580.42	62.68	42.170 SF		
7,700.00	6,027.00	5,649.00	5,647.79	44.99	18.93	-80.99	107.80	-3,660.19	2,701.02	2,637.08	63.94	42.242		
7,800.00	6,027.00	5,649.00	5,647.79	46.14	18.93	-80.99	107.80	-3,660.19	2,761.35	2,696.21	65.14	42.392		
7,900.00	6,027.00	5,649.00	5,647.79	47.33	18.93	-80.99	107.80	-3,660.19	2,823.93	2,757.67	66.27	42.615		
8,000.00	6,027.00	5,649.00	5,647.79	48.57	18.93	-80.99	107.80	-3,660.19	2,888.62	2,821.29	67.33	42.903		
8,100.00	6,027.00	5,635.17	5,634.19	49.84	18.88	-80.63	110.28	-3,660.04	2,955.10	2,886.83	68.27	43.286		
8,200.00	6,027.00	5,632.29	5,631.35	51.15	18.87	-80.56	110.75	-3,660.02	3,023.51	2,954.32	69.20	43.695		
8,300.00	6,027.00	5,618.00	5,617.21	52.48	18.82	-80.19	112.86	-3,659.95	3,093.76	3,023.74	70.02	44.187		
8,400.00	6,027.00	5,618.00	5,617.21	53.85	18.82	-80.19	112.86	-3,659.95	3,165.42	3,094.57	70.84	44.683		
8,500.00	6,027.00	5,618.00	5,617.21	55.24	18.82	-80.19	112.86	-3,659.95	3,238.58	3,166.96	71.62	45.222		
8,600.00	6,027.00	5,618.00	5,617.21	56.65	18.82	-80.19	112.86	-3,659.95	3,313.14	3,240.80	72.34	45.799		
8,700.00	6,027.00	5,618.00	5,617.21	58.08	18.82	-80.19	112.86	-3,659.95	3,389.02	3,316.00	73.02	46.412		
8,800.00	6,027.00	5,618.00	5,617.21	59.54	18.82	-80.19	112.86	-3,659.95	3,466.12	3,392.46	73.66	47.058		
8,900.00	6,027.00	5,618.00	5,617.21	61.01	18.82	-80.19	112.86	-3,659.95	3,544.36	3,470.11	74.25	47.734		
9,000.00	6,027.00	5,618.00	5,617.21	62.50	18.82	-80.19	112.86	-3,659.95	3,623.68	3,548.87	74.81	48.437		
9,100.00	6,027.00	5,618.00	5,617.21	64.01	18.82	-80.19	112.86	-3,659.95	3,704.00	3,628.66	75.34	49.166		
9,200.00	6,027.00	5,618.00	5,617.21	65.53	18.82	-80.19	112.86	-3,659.95	3,785.25	3,709.42	75.83	49.918		
9,300.00	6,027.00	5,618.00	5,617.21	67.06	18.82	-80.19	112.86	-3,659.95	3,867.38	3,791.09	76.29	50.692		
9,400.00	6,027.00	5,618.00	5,617.21	68.61	18.82	-80.19	112.86	-3,659.95	3,950.34	3,873.61	76.73	51.486		
9,500.00	6,027.00	5,618.00	5,617.21	70.17	18.82	-80.19	112.86	-3,659.95	4,034.07	3,956.93	77.14	52.298		
9,600.00	6,027.00	5,618.00	5,617.21	71.73	18.82	-80.19	112.86	-3,659.95	4,118.52	4,041.00	77.52	53.128		
9,700.00	6,027.00	5,618.00	5,617.21	73.31	18.82	-80.19	112.86	-3,659.95	4,203.66	4,125.78	77.88	53.974		
9,800.00	6,027.00	5,618.00	5,617.21	74.90	18.82	-80.19	112.86	-3,659.95	4,289.44	4,211.22	78.23	54.834		
9,900.00	6,027.00	5,603.01	5,602.34	76.50	18.76	-79.81	114.63	-3,659.95	4,375.57	4,297.08	78.50	55.741		
10,000.00	6,027.00	5,601.98	5,601.30	78.10	18.76	-79.78	114.74	-3,659.95	4,462.49	4,383.69	78.80	56.631		
10,100.00	6,027.00	5,600.98	5,600.31	79.71	18.76	-79.76	114.84	-3,659.95	4,549.94	4,470.86	79.09	57.532		
10,200.00	6,027.00	5,586.00	5,585.38	81.33	18.70	-79.37	116.08	-3,660.04	4,638.12	4,558.81	79.31	58.482		
10,300.00	6,027.00	5,586.00	5,585.38	82.96	18.70	-79.37	116.08	-3,660.04	4,726.52	4,646.95	79.57	59.403		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - EXIST HZ PRONGHORN 31-34-17HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 495-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,586.00	5,585.38	84.59	18.70	-79.37	116.08	-3,660.04	4,815.38	4,735.57	79.81	60.333		
10,500.00	6,027.00	5,586.00	5,585.38	86.23	18.70	-79.37	116.08	-3,660.04	4,904.67	4,824.62	80.05	61.272		
10,600.00	6,027.00	5,586.00	5,585.38	87.87	18.70	-79.37	116.08	-3,660.04	4,994.36	4,914.09	80.27	62.220		
10,700.00	6,027.00	5,586.00	5,585.38	89.52	18.70	-79.37	116.08	-3,660.04	5,084.44	5,003.96	80.48	63.175		
10,800.00	6,027.00	5,586.00	5,585.38	91.17	18.70	-79.37	116.08	-3,660.04	5,174.89	5,094.20	80.68	64.139		
10,900.00	6,027.00	5,586.00	5,585.38	92.83	18.70	-79.37	116.08	-3,660.04	5,265.67	5,184.80	80.87	65.109		
11,000.00	6,027.00	5,586.00	5,585.38	94.49	18.70	-79.37	116.08	-3,660.04	5,356.79	5,275.73	81.06	66.087		
11,100.00	6,027.00	5,586.00	5,585.38	96.16	18.70	-79.37	116.08	-3,660.04	5,448.22	5,366.99	81.23	67.070		
11,200.00	6,027.00	5,586.00	5,585.38	97.83	18.70	-79.37	116.08	-3,660.04	5,539.95	5,458.55	81.40	68.059		
11,300.00	6,027.00	5,586.00	5,585.38	99.50	18.70	-79.37	116.08	-3,660.04	5,631.95	5,550.39	81.56	69.054		
11,400.00	6,027.00	5,586.00	5,585.38	101.18	18.70	-79.37	116.08	-3,660.04	5,724.23	5,642.51	81.71	70.054		
11,500.00	6,027.00	5,586.00	5,585.38	102.86	18.70	-79.37	116.08	-3,660.04	5,816.76	5,734.90	81.86	71.059		
11,600.00	6,027.00	5,586.00	5,585.38	104.54	18.70	-79.37	116.08	-3,660.04	5,909.53	5,827.53	82.00	72.068		
11,700.00	6,027.00	5,586.00	5,585.38	106.23	18.70	-79.37	116.08	-3,660.04	6,002.53	5,920.40	82.13	73.082		
11,800.00	6,027.00	5,586.00	5,585.38	107.92	18.70	-79.37	116.08	-3,660.04	6,095.76	6,013.50	82.26	74.100		
11,900.00	6,027.00	5,586.00	5,585.38	109.61	18.70	-79.37	116.08	-3,660.04	6,189.20	6,106.81	82.39	75.121		
12,000.00	6,027.00	5,586.00	5,585.38	111.31	18.70	-79.37	116.08	-3,660.04	6,282.84	6,200.33	82.51	76.146		
12,100.00	6,027.00	5,586.00	5,585.38	113.00	18.70	-79.37	116.08	-3,660.04	6,376.67	6,294.05	82.63	77.175		
12,200.00	6,027.00	5,586.00	5,585.38	114.71	18.70	-79.37	116.08	-3,660.04	6,470.69	6,387.95	82.74	78.206		
12,300.00	6,027.00	5,586.00	5,585.38	116.41	18.70	-79.37	116.08	-3,660.04	6,564.89	6,482.04	82.85	79.241		
12,400.00	6,027.00	5,586.00	5,585.38	118.11	18.70	-79.37	116.08	-3,660.04	6,659.25	6,576.30	82.95	80.278		
12,500.00	6,027.00	5,586.00	5,585.38	119.82	18.70	-79.37	116.08	-3,660.04	6,753.78	6,670.72	83.05	81.318		
12,600.00	6,027.00	5,586.00	5,585.38	121.53	18.70	-79.37	116.08	-3,660.04	6,848.46	6,765.31	83.15	82.361		
12,700.00	6,027.00	5,586.00	5,585.38	123.24	18.70	-79.37	116.08	-3,660.04	6,943.29	6,860.04	83.25	83.406		
12,800.00	6,027.00	5,586.00	5,585.38	124.95	18.70	-79.37	116.08	-3,660.04	7,038.27	6,954.93	83.34	84.452		
12,900.00	6,027.00	5,586.00	5,585.38	126.66	18.70	-79.37	116.08	-3,660.04	7,133.38	7,049.95	83.43	85.501		
13,000.00	6,027.00	5,586.00	5,585.38	128.38	18.70	-79.37	116.08	-3,660.04	7,228.62	7,145.10	83.52	86.552		
13,100.00	6,027.00	5,586.00	5,585.38	130.10	18.70	-79.37	116.08	-3,660.04	7,323.99	7,240.39	83.60	87.605		
13,200.00	6,027.00	5,586.00	5,585.38	131.82	18.70	-79.37	116.08	-3,660.04	7,419.48	7,335.80	83.69	88.659		
13,300.00	6,027.00	5,586.00	5,585.38	133.54	18.70	-79.37	116.08	-3,660.04	7,515.09	7,431.33	83.77	89.715		
13,400.00	6,027.00	5,586.00	5,585.38	135.26	18.70	-79.37	116.08	-3,660.04	7,610.81	7,526.97	83.84	90.772		
13,500.00	6,027.00	5,586.00	5,585.38	136.98	18.70	-79.37	116.08	-3,660.04	7,706.65	7,622.72	83.92	91.831		
13,600.00	6,027.00	5,586.00	5,585.38	138.71	18.70	-79.37	116.08	-3,660.04	7,802.58	7,718.58	84.00	92.891		
13,700.00	6,027.00	5,586.00	5,585.38	140.43	18.70	-79.37	116.08	-3,660.04	7,898.62	7,814.55	84.07	93.952		
13,800.00	6,027.00	5,586.00	5,585.38	142.16	18.70	-79.37	116.08	-3,660.04	7,994.75	7,910.61	84.14	95.014		
13,900.00	6,027.00	5,586.00	5,585.38	143.89	18.70	-79.37	116.08	-3,660.04	8,090.98	8,006.77	84.21	96.077		
14,000.00	6,027.00	5,586.00	5,585.38	145.62	18.70	-79.37	116.08	-3,660.04	8,187.30	8,103.01	84.28	97.141		
14,100.00	6,027.00	5,586.00	5,585.38	147.35	18.70	-79.37	116.08	-3,660.04	8,283.70	8,199.35	84.35	98.206		
14,200.00	6,027.00	5,586.00	5,585.38	149.08	18.70	-79.37	116.08	-3,660.04	8,380.19	8,295.77	84.42	99.271		
14,300.00	6,027.00	5,586.00	5,585.38	150.81	18.70	-79.37	116.08	-3,660.04	8,476.76	8,392.28	84.48	100.337		
14,400.00	6,027.00	5,586.00	5,585.38	152.54	18.70	-79.37	116.08	-3,660.04	8,573.41	8,488.86	84.55	101.404		
14,500.00	6,027.00	5,586.00	5,585.38	154.28	18.70	-79.37	116.08	-3,660.04	8,670.14	8,585.53	84.61	102.471		
14,600.00	6,027.00	5,586.00	5,585.38	156.01	18.70	-79.37	116.08	-3,660.04	8,766.93	8,682.26	84.67	103.539		
14,700.00	6,027.00	5,586.00	5,585.38	157.75	18.70	-79.37	116.08	-3,660.04	8,863.80	8,779.07	84.73	104.607		
14,800.00	6,027.00	5,586.00	5,585.38	159.49	18.70	-79.37	116.08	-3,660.04	8,960.74	8,875.95	84.79	105.676		
14,900.00	6,027.00	5,586.00	5,585.38	161.22	18.70	-79.37	116.08	-3,660.04	9,057.75	8,972.89	84.85	106.745		
15,000.00	6,027.00	5,586.00	5,585.38	162.96	18.70	-79.37	116.08	-3,660.04	9,154.82	9,069.90	84.91	107.814		
15,100.00	6,027.00	5,586.00	5,585.38	164.70	18.70	-79.37	116.08	-3,660.04	9,251.95	9,166.98	84.97	108.883		
15,200.00	6,027.00	5,586.00	5,585.38	166.44	18.70	-79.37	116.08	-3,660.04	9,349.14	9,264.11	85.03	109.952		
15,300.00	6,027.00	5,586.00	5,585.38	168.18	18.70	-79.37	116.08	-3,660.04	9,446.39	9,361.31	85.09	111.022		
15,400.00	6,027.00	5,586.00	5,585.38	169.93	18.70	-79.37	116.08	-3,660.04	9,543.70	9,458.56	85.14	112.091		
15,500.00	6,027.00	5,586.00	5,585.38	171.67	18.70	-79.37	116.08	-3,660.04	9,641.06	9,555.87	85.20	113.160		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		SEC 17-T5N-R61W - EXIST HZ PRONGHORN 31-34-17HZ - OWB - FINAL SURVEY										<b>Offset Site Error:</b>	0.00 usft
Survey Program:		495-MWD OWSG										<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	5,586.00	5,585.38	173.41	18.70	-79.37	116.08	-3,660.04	9,738.48	9,653.23	85.25	114.230	
15,700.00	6,027.00	5,586.00	5,585.38	175.15	18.70	-79.37	116.08	-3,660.04	9,835.95	9,750.64	85.31	115.299	
15,800.00	6,027.00	5,586.00	5,585.38	176.90	18.70	-79.37	116.08	-3,660.04	9,933.47	9,848.11	85.36	116.368	
15,900.00	6,027.00	5,586.00	5,585.38	178.64	18.70	-79.37	116.08	-3,660.04	10,031.04	9,945.62	85.42	117.437	

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 17-T5N-R61W - EXIST HZ PRONGHORN F-J-17HNC - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 509-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	38.57	38.57	0.27	0.07	-89.15	84.44	-5,675.64	5,676.26	5,675.93	0.34	N/A		
200.00	200.00	132.66	132.66	0.63	0.23	-89.15	84.33	-5,675.73	5,676.36	5,675.50	0.86	6,619.686		
300.00	300.00	226.74	226.74	0.99	0.39	-89.15	84.12	-5,675.92	5,676.56	5,675.18	1.38	4,115.836		
400.00	400.00	320.82	320.82	1.34	0.56	-89.15	83.78	-5,676.21	5,676.86	5,674.96	1.90	2,986.418		
500.00	500.00	414.90	414.89	1.70	0.72	-89.16	83.34	-5,676.60	5,677.27	5,674.85	2.42	2,343.481		
600.00	600.00	509.00	508.99	2.06	0.88	-89.16	82.77	-5,677.09	5,677.78	5,674.84	2.94	1,928.395		
700.00	700.00	961.10	959.81	2.42	2.47	-88.95	103.46	-5,662.76	5,672.67	5,667.79	4.88	1,162.016		
800.00	800.00	1,038.71	1,036.98	2.78	2.76	-88.88	110.42	-5,658.43	5,667.25	5,661.72	5.52	1,025.918		
900.00	900.00	1,107.58	1,105.49	3.14	3.02	-88.82	116.50	-5,654.89	5,662.27	5,656.13	6.14	922.643		
1,000.00	999.98	1,174.79	1,172.38	3.49	3.27	0.50	122.22	-5,651.87	5,656.18	5,649.44	6.74	839.533		
1,100.00	1,099.84	1,275.00	1,272.19	3.83	3.65	0.58	130.22	-5,647.55	5,646.82	5,639.36	7.46	757.353		
1,200.00	1,199.45	1,349.00	1,345.89	4.19	3.93	0.64	136.06	-5,644.52	5,634.22	5,626.14	8.08	697.262		
1,300.00	1,298.70	1,424.89	1,421.48	4.55	4.22	0.71	142.14	-5,641.73	5,618.59	5,609.87	8.72	644.702		
1,400.00	1,397.47	1,483.40	1,479.78	4.94	4.44	0.77	146.84	-5,639.91	5,600.08	5,590.79	9.29	603.031		
1,500.00	1,495.62	1,544.88	1,541.05	5.34	4.67	0.83	151.73	-5,638.48	5,578.91	5,569.04	9.87	565.188		
1,600.00	1,593.06	1,809.00	1,804.36	5.78	5.66	1.03	168.87	-5,627.84	5,551.87	5,540.67	11.20	495.797		
1,700.00	1,689.64	1,934.65	1,929.63	6.24	6.13	1.13	176.23	-5,621.36	5,521.27	5,509.25	12.01	459.561		
1,800.00	1,785.27	2,010.77	2,005.49	6.75	6.42	1.21	181.04	-5,617.20	5,487.04	5,474.38	12.66	433.413		
1,900.00	1,880.44	2,078.39	2,072.77	7.30	6.68	1.28	186.68	-5,613.74	5,451.75	5,438.48	13.27	410.817		
2,000.00	1,975.60	2,136.38	2,130.41	7.86	6.91	1.35	192.55	-5,611.05	5,416.98	5,403.13	13.86	390.972		
2,100.00	2,070.77	2,188.00	2,181.72	8.43	7.11	1.41	197.74	-5,609.01	5,382.87	5,368.45	14.42	373.225		
2,200.00	2,165.93	2,256.97	2,250.32	9.02	7.37	1.50	204.47	-5,606.71	5,349.36	5,334.30	15.06	355.240		
2,300.00	2,261.10	2,321.36	2,314.42	9.62	7.62	1.57	210.45	-5,604.94	5,316.37	5,300.69	15.68	339.050		
2,400.00	2,356.26	2,380.00	2,372.81	10.23	7.85	1.63	215.59	-5,603.66	5,283.94	5,267.65	16.28	324.488		
2,500.00	2,451.43	2,681.74	2,673.01	10.84	9.02	1.99	242.86	-5,592.11	5,249.82	5,232.06	17.77	295.465		
2,600.00	2,546.59	2,763.00	2,753.75	11.46	9.34	2.10	250.79	-5,587.38	5,214.06	5,195.60	18.46	282.409		
2,700.00	2,641.76	2,805.94	2,796.45	12.09	9.51	2.15	254.76	-5,585.15	5,178.93	5,159.91	19.02	272.268		
2,800.00	2,736.92	2,859.00	2,849.27	12.72	9.71	2.21	259.38	-5,583.16	5,144.92	5,125.30	19.62	262.245		
2,900.00	2,832.09	2,889.74	2,879.89	13.35	9.83	2.25	261.90	-5,582.33	5,111.78	5,091.64	20.14	253.837		
3,000.00	2,927.25	2,955.00	2,944.94	13.99	10.08	2.32	266.93	-5,581.01	5,079.48	5,058.70	20.78	244.447		
3,100.00	3,022.42	3,079.16	3,068.66	14.63	10.55	2.46	277.01	-5,578.16	5,046.99	5,025.36	21.63	233.361		
3,200.00	3,117.58	3,298.95	3,287.31	15.27	11.40	2.75	297.53	-5,570.00	5,013.42	4,990.60	22.81	219.776		
3,300.00	3,212.75	3,385.04	3,372.86	15.91	11.75	2.87	306.08	-5,565.73	4,978.57	4,955.03	23.54	211.501		
3,400.00	3,307.91	3,529.45	3,516.32	16.56	12.32	3.09	320.66	-5,557.94	4,943.44	4,918.97	24.47	202.053		
3,500.00	3,403.08	3,616.76	3,603.08	17.20	12.67	3.21	329.00	-5,552.77	4,907.73	4,882.53	25.20	194.764		
3,600.00	3,498.24	3,722.44	3,708.13	17.85	13.09	3.36	338.62	-5,546.44	4,871.97	4,845.98	25.99	187.457		
3,700.00	3,593.41	3,779.12	3,764.52	18.50	13.31	3.44	343.39	-5,543.23	4,836.47	4,809.85	26.62	181.683		
3,800.00	3,688.57	3,840.17	3,825.33	19.15	13.54	3.51	348.00	-5,540.22	4,801.64	4,774.37	27.26	176.110		
3,900.00	3,783.74	3,910.00	3,894.93	19.81	13.81	3.59	352.74	-5,537.27	4,767.41	4,739.47	27.94	170.655		
4,000.00	3,878.90	3,965.38	3,950.11	20.46	14.02	3.66	356.96	-5,535.25	4,733.79	4,705.23	28.57	165.705		
4,100.00	3,974.07	4,039.61	4,023.94	21.11	14.31	3.78	364.32	-5,532.91	4,700.81	4,671.55	29.26	160.629		
4,200.00	4,069.23	4,129.32	4,113.19	21.77	14.66	3.92	373.01	-5,530.19	4,667.99	4,637.97	30.02	155.519		
4,300.00	4,164.40	4,189.00	4,172.61	22.42	14.89	4.00	378.29	-5,528.51	4,635.43	4,604.76	30.67	151.147		
4,400.00	4,259.56	4,237.68	4,221.13	23.08	15.07	4.07	382.11	-5,527.61	4,603.73	4,572.45	31.28	147.176		
4,500.00	4,354.73	4,285.00	4,268.34	23.74	15.25	4.12	385.27	-5,527.50	4,573.28	4,541.39	31.89	143.414		
4,600.00	4,449.89	4,367.83	4,351.08	24.39	15.54	4.19	388.97	-5,528.01	4,543.54	4,510.95	32.59	139.407		
4,700.00	4,545.06	4,464.98	4,448.21	25.05	15.87	4.25	391.01	-5,528.66	4,513.70	4,480.37	33.33	135.441		
4,800.00	4,640.22	4,613.25	4,596.46	25.71	16.37	4.32	393.32	-5,528.89	4,483.34	4,449.15	34.20	131.106		
4,900.00	4,735.39	4,750.29	4,733.48	26.37	16.84	4.39	394.56	-5,527.63	4,451.90	4,416.87	35.03	127.095		
5,000.00	4,830.55	4,843.70	4,826.89	27.03	17.15	4.42	394.85	-5,526.38	4,420.01	4,384.27	35.74	123.660		
5,100.00	4,925.72	4,904.85	4,888.04	27.69	17.36	4.45	395.24	-5,525.75	4,388.49	4,352.11	36.38	120.626		
5,200.00	5,020.88	4,956.00	4,939.18	28.35	17.53	4.47	395.69	-5,525.68	4,357.84	4,320.85	36.99	117.797		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 509-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,021.85	5,005.02	29.01	17.74	4.50	396.13	-5,526.17	4,327.98	4,290.34	37.64	114.982		
5,400.00	5,211.21	5,103.20	5,086.37	29.67	18.01	4.52	396.00	-5,527.40	4,298.75	4,260.44	38.32	112.185		
5,500.00	5,306.38	5,247.28	5,230.43	30.33	18.46	4.55	394.79	-5,529.13	4,269.27	4,230.13	39.14	109.088		
5,600.00	5,401.54	5,339.17	5,322.32	30.99	18.76	4.59	395.16	-5,529.52	4,239.08	4,199.23	39.85	106.380		
5,700.00	5,496.71	5,437.08	5,420.22	31.65	19.09	0.06	395.80	-5,529.90	4,208.86	4,168.28	40.58	103.712		
5,800.00	5,591.13	5,529.00	5,512.14	32.30	19.40	-30.31	396.04	-5,530.30	4,177.92	4,136.66	41.27	101.240		
5,900.00	5,682.22	5,624.27	5,607.41	32.92	19.72	-50.84	396.30	-5,530.71	4,146.61	4,104.70	41.91	98.932		
6,000.00	5,767.23	5,706.40	5,689.38	33.50	19.97	-64.23	392.34	-5,531.18	4,116.03	4,073.56	42.48	96.900		
6,100.00	5,843.56	5,749.64	5,731.74	34.04	20.08	-73.26	383.90	-5,532.07	4,088.37	4,045.41	42.96	95.176		
6,200.00	5,908.90	5,769.00	5,750.24	34.53	20.12	-79.40	378.22	-5,532.64	4,065.22	4,021.76	43.46	93.533		
6,300.00	5,961.25	5,782.91	5,763.30	34.99	20.15	-83.55	373.46	-5,533.12	4,047.79	4,003.72	44.07	91.859		
6,400.00	5,999.04	5,783.91	5,764.23	35.42	20.15	-86.00	373.09	-5,533.16	4,036.83	3,992.04	44.79	90.135		
6,500.00	6,021.11	5,769.00	5,750.24	35.83	20.12	-86.91	378.22	-5,532.64	4,032.78	3,987.16	45.62	88.402		
6,510.19	6,022.46	5,769.00	5,750.24	35.87	20.12	-86.95	378.22	-5,532.64	4,032.74	3,987.03	45.71	88.215 CC, ES		
6,600.00	6,027.00	5,769.00	5,750.24	36.24	20.12	-86.90	378.22	-5,532.64	4,035.57	3,988.98	46.59	86.620		
6,700.00	6,027.00	5,769.00	5,750.24	36.68	20.12	-86.90	378.22	-5,532.64	4,042.43	3,994.73	47.69	84.758		
6,800.00	6,027.00	5,769.00	5,750.24	37.20	20.12	-86.90	378.22	-5,532.64	4,051.74	4,002.81	48.93	82.807		
6,900.00	6,027.00	5,745.37	5,727.62	37.80	20.07	-86.58	385.00	-5,531.95	4,063.21	4,013.00	50.22	80.916		
7,000.00	6,027.00	5,739.65	5,722.07	38.47	20.05	-86.50	386.37	-5,531.81	4,077.20	4,025.57	51.63	78.968		
7,100.00	6,027.00	5,721.00	5,703.81	39.21	20.01	-86.24	390.12	-5,531.42	4,093.67	4,040.58	53.08	77.115		
7,200.00	6,027.00	5,721.00	5,703.81	40.02	20.01	-86.24	390.12	-5,531.42	4,112.31	4,057.68	54.63	75.269		
7,300.00	6,027.00	5,721.00	5,703.81	40.89	20.01	-86.24	390.12	-5,531.42	4,133.29	4,077.07	56.22	73.518		
7,400.00	6,027.00	5,721.00	5,703.81	41.83	20.01	-86.24	390.12	-5,531.42	4,156.57	4,098.74	57.83	71.872		
7,500.00	6,027.00	5,721.00	5,703.81	42.83	20.01	-86.24	390.12	-5,531.42	4,182.12	4,122.66	59.46	70.337		
7,600.00	6,027.00	5,721.00	5,703.81	43.88	20.01	-86.24	390.12	-5,531.42	4,209.88	4,148.79	61.09	68.916		
7,700.00	6,027.00	5,721.00	5,703.81	44.99	20.01	-86.24	390.12	-5,531.42	4,239.82	4,177.11	62.71	67.608		
7,800.00	6,027.00	5,721.00	5,703.81	46.14	20.01	-86.24	390.12	-5,531.42	4,271.90	4,207.57	64.33	66.410		
7,900.00	6,027.00	5,721.00	5,703.81	47.33	20.01	-86.24	390.12	-5,531.42	4,306.05	4,240.13	65.92	65.319		
8,000.00	6,027.00	5,721.00	5,703.81	48.57	20.01	-86.24	390.12	-5,531.42	4,342.25	4,274.75	67.50	64.330		
8,100.00	6,027.00	5,721.00	5,703.81	49.84	20.01	-86.24	390.12	-5,531.42	4,380.42	4,311.37	69.05	63.439		
8,200.00	6,027.00	5,721.00	5,703.81	51.15	20.01	-86.24	390.12	-5,531.42	4,420.53	4,349.96	70.57	62.640		
8,300.00	6,027.00	5,721.00	5,703.81	52.48	20.01	-86.24	390.12	-5,531.42	4,462.52	4,390.46	72.06	61.928		
8,400.00	6,027.00	5,700.12	5,683.15	53.85	19.95	-85.95	393.12	-5,531.10	4,505.97	4,432.52	73.45	61.344		
8,500.00	6,027.00	5,698.63	5,681.67	55.24	19.95	-85.93	393.29	-5,531.08	4,551.50	4,476.63	74.87	60.792		
8,600.00	6,027.00	5,697.24	5,680.29	56.65	19.94	-85.91	393.45	-5,531.07	4,598.75	4,522.50	76.25	60.312		
8,700.00	6,027.00	5,695.93	5,678.99	58.08	19.94	-85.89	393.59	-5,531.05	4,647.67	4,570.08	77.59	59.900		
8,800.00	6,027.00	5,694.71	5,677.77	59.54	19.94	-85.87	393.71	-5,531.04	4,698.21	4,619.31	78.89	59.551		
8,900.00	6,027.00	5,673.00	5,656.13	61.01	19.88	-85.57	395.32	-5,530.89	4,750.70	4,670.60	80.10	59.312		
9,000.00	6,027.00	5,673.00	5,656.13	62.50	19.88	-85.57	395.32	-5,530.89	4,804.28	4,722.96	81.33	59.074		
9,100.00	6,027.00	5,673.00	5,656.13	64.01	19.88	-85.57	395.32	-5,530.89	4,859.33	4,776.81	82.52	58.889		
9,200.00	6,027.00	5,673.00	5,656.13	65.53	19.88	-85.57	395.32	-5,530.89	4,915.80	4,832.13	83.67	58.752		
9,300.00	6,027.00	5,673.00	5,656.13	67.06	19.88	-85.57	395.32	-5,530.89	4,973.63	4,888.85	84.78	58.662		
9,400.00	6,027.00	5,673.00	5,656.13	68.61	19.88	-85.57	395.32	-5,530.89	5,032.79	4,946.93	85.86	58.615		
9,500.00	6,027.00	5,673.00	5,656.13	70.17	19.88	-85.57	395.32	-5,530.89	5,093.22	5,006.32	86.90	58.609 SF		
9,600.00	6,027.00	5,673.00	5,656.13	71.73	19.88	-85.57	395.32	-5,530.89	5,154.89	5,066.98	87.91	58.641		
9,700.00	6,027.00	5,673.00	5,656.13	73.31	19.88	-85.57	395.32	-5,530.89	5,217.74	5,128.87	88.88	58.709		
9,800.00	6,027.00	5,673.00	5,656.13	74.90	19.88	-85.57	395.32	-5,530.89	5,281.74	5,191.93	89.81	58.810		
9,900.00	6,027.00	5,673.00	5,656.13	76.50	19.88	-85.57	395.32	-5,530.89	5,346.85	5,256.13	90.71	58.943		
10,000.00	6,027.00	5,673.00	5,656.13	78.10	19.88	-85.57	395.32	-5,530.89	5,413.02	5,321.43	91.58	59.106		
10,100.00	6,027.00	5,673.00	5,656.13	79.71	19.88	-85.57	395.32	-5,530.89	5,480.21	5,387.79	92.42	59.297		
10,200.00	6,027.00	5,673.00	5,656.13	81.33	19.88	-85.57	395.32	-5,530.89	5,548.39	5,455.16	93.23	59.514		
10,300.00	6,027.00	5,673.00	5,656.13	82.96	19.88	-85.57	395.32	-5,530.89	5,617.53	5,523.52	94.01	59.757		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 509-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,673.00	5,656.13	84.59	19.88	-85.57	395.32	-5,530.89	5,687.58	5,592.82	94.76	60.023		
10,500.00	6,027.00	5,673.00	5,656.13	86.23	19.88	-85.57	395.32	-5,530.89	5,758.52	5,663.04	95.48	60.312		
10,600.00	6,027.00	5,673.00	5,656.13	87.87	19.88	-85.57	395.32	-5,530.89	5,830.31	5,734.13	96.18	60.621		
10,700.00	6,027.00	5,673.00	5,656.13	89.52	19.88	-85.57	395.32	-5,530.89	5,902.92	5,806.07	96.85	60.951		
10,800.00	6,027.00	5,673.00	5,656.13	91.17	19.88	-85.57	395.32	-5,530.89	5,976.32	5,878.83	97.49	61.300		
10,900.00	6,027.00	5,673.00	5,656.13	92.83	19.88	-85.57	395.32	-5,530.89	6,050.49	5,952.37	98.12	61.666		
11,000.00	6,027.00	5,673.00	5,656.13	94.49	19.88	-85.57	395.32	-5,530.89	6,125.38	6,026.67	98.72	62.050		
11,100.00	6,027.00	5,673.00	5,656.13	96.16	19.88	-85.57	395.32	-5,530.89	6,200.99	6,101.70	99.30	62.450		
11,200.00	6,027.00	5,673.00	5,656.13	97.83	19.88	-85.57	395.32	-5,530.89	6,277.28	6,177.43	99.85	62.865		
11,300.00	6,027.00	5,673.00	5,656.13	99.50	19.88	-85.57	395.32	-5,530.89	6,354.23	6,253.84	100.39	63.295		
11,400.00	6,027.00	5,673.00	5,656.13	101.18	19.88	-85.57	395.32	-5,530.89	6,431.81	6,330.90	100.91	63.738		
11,500.00	6,027.00	5,673.00	5,656.13	102.86	19.88	-85.57	395.32	-5,530.89	6,510.00	6,408.59	101.41	64.195		
11,600.00	6,027.00	5,673.00	5,656.13	104.54	19.88	-85.57	395.32	-5,530.89	6,588.79	6,486.89	101.89	64.665		
11,700.00	6,027.00	5,673.00	5,656.13	106.23	19.88	-85.57	395.32	-5,530.89	6,668.14	6,565.78	102.36	65.146		
11,800.00	6,027.00	5,673.00	5,656.13	107.92	19.88	-85.57	395.32	-5,530.89	6,748.04	6,645.23	102.81	65.639		
11,900.00	6,027.00	5,673.00	5,656.13	109.61	19.88	-85.57	395.32	-5,530.89	6,828.47	6,725.23	103.24	66.142		
12,000.00	6,027.00	5,673.00	5,656.13	111.31	19.88	-85.57	395.32	-5,530.89	6,909.41	6,805.75	103.66	66.656		
12,100.00	6,027.00	5,673.00	5,656.13	113.00	19.88	-85.57	395.32	-5,530.89	6,990.84	6,886.78	104.06	67.180		
12,200.00	6,027.00	5,673.00	5,656.13	114.71	19.88	-85.57	395.32	-5,530.89	7,072.76	6,968.30	104.45	67.714		
12,300.00	6,027.00	5,673.00	5,656.13	116.41	19.88	-85.57	395.32	-5,530.89	7,155.13	7,050.30	104.83	68.256		
12,400.00	6,027.00	5,673.00	5,656.13	118.11	19.88	-85.57	395.32	-5,530.89	7,237.94	7,132.75	105.19	68.807		
12,500.00	6,027.00	5,673.00	5,656.13	119.82	19.88	-85.57	395.32	-5,530.89	7,321.18	7,215.64	105.54	69.367		
12,600.00	6,027.00	5,673.00	5,656.13	121.53	19.88	-85.57	395.32	-5,530.89	7,404.84	7,298.96	105.88	69.934		
12,700.00	6,027.00	5,673.00	5,656.13	123.24	19.88	-85.57	395.32	-5,530.89	7,488.90	7,382.69	106.21	70.509		
12,800.00	6,027.00	5,673.00	5,656.13	124.95	19.88	-85.57	395.32	-5,530.89	7,573.35	7,466.82	106.53	71.091		
12,900.00	6,027.00	5,673.00	5,656.13	126.66	19.88	-85.57	395.32	-5,530.89	7,658.17	7,551.33	106.84	71.680		
13,000.00	6,027.00	5,673.00	5,656.13	128.38	19.88	-85.57	395.32	-5,530.89	7,743.36	7,636.22	107.14	72.275		
13,100.00	6,027.00	5,673.00	5,656.13	130.10	19.88	-85.57	395.32	-5,530.89	7,828.89	7,721.46	107.43	72.877		
13,200.00	6,027.00	5,673.00	5,656.13	131.82	19.88	-85.57	395.32	-5,530.89	7,914.76	7,807.06	107.71	73.485		
13,300.00	6,027.00	5,673.00	5,656.13	133.54	19.88	-85.57	395.32	-5,530.89	8,000.96	7,892.99	107.98	74.099		
13,400.00	6,027.00	5,673.00	5,656.13	135.26	19.88	-85.57	395.32	-5,530.89	8,087.48	7,979.24	108.24	74.719		
13,500.00	6,027.00	5,673.00	5,656.13	136.98	19.88	-85.57	395.32	-5,530.89	8,174.31	8,065.82	108.49	75.344		
13,600.00	6,027.00	5,673.00	5,656.13	138.71	19.88	-85.57	395.32	-5,530.89	8,261.44	8,152.69	108.74	75.974		
13,700.00	6,027.00	5,673.00	5,656.13	140.43	19.88	-85.57	395.32	-5,530.89	8,348.85	8,239.87	108.98	76.609		
13,800.00	6,027.00	5,673.00	5,656.13	142.16	19.88	-85.57	395.32	-5,530.89	8,436.54	8,327.33	109.21	77.249		
13,900.00	6,027.00	5,673.00	5,656.13	143.89	19.88	-85.57	395.32	-5,530.89	8,524.51	8,415.07	109.44	77.893		
14,000.00	6,027.00	5,673.00	5,656.13	145.62	19.88	-85.57	395.32	-5,530.89	8,612.73	8,503.07	109.66	78.542		
14,100.00	6,027.00	5,673.00	5,656.13	147.35	19.88	-85.57	395.32	-5,530.89	8,701.21	8,591.34	109.87	79.195		
14,200.00	6,027.00	5,673.00	5,656.13	149.08	19.88	-85.57	395.32	-5,530.89	8,789.94	8,679.86	110.08	79.852		
14,300.00	6,027.00	5,673.00	5,656.13	150.81	19.88	-85.57	395.32	-5,530.89	8,878.91	8,768.63	110.28	80.514		
14,400.00	6,027.00	5,673.00	5,656.13	152.54	19.88	-85.57	395.32	-5,530.89	8,968.11	8,857.64	110.47	81.178		
14,500.00	6,027.00	5,673.00	5,656.13	154.28	19.88	-85.57	395.32	-5,530.89	9,057.54	8,946.87	110.66	81.847		
14,600.00	6,027.00	5,673.00	5,656.13	156.01	19.88	-85.57	395.32	-5,530.89	9,147.18	9,036.33	110.85	82.519		
14,700.00	6,027.00	5,673.00	5,656.13	157.75	19.88	-85.57	395.32	-5,530.89	9,237.04	9,126.01	111.03	83.194		
14,800.00	6,027.00	5,673.00	5,656.13	159.49	19.88	-85.57	395.32	-5,530.89	9,327.10	9,215.90	111.21	83.873		
14,900.00	6,027.00	5,673.00	5,656.13	161.22	19.88	-85.57	395.32	-5,530.89	9,417.37	9,305.99	111.38	84.555		
15,000.00	6,027.00	5,673.00	5,656.13	162.96	19.88	-85.57	395.32	-5,530.89	9,507.83	9,396.28	111.54	85.240		
15,100.00	6,027.00	5,673.00	5,656.13	164.70	19.88	-85.57	395.32	-5,530.89	9,598.47	9,486.77	111.70	85.927		
15,200.00	6,027.00	5,673.00	5,656.13	166.44	19.88	-85.57	395.32	-5,530.89	9,689.31	9,577.44	111.86	86.618		
15,300.00	6,027.00	5,673.00	5,656.13	168.18	19.88	-85.57	395.32	-5,530.89	9,780.32	9,668.30	112.02	87.311		
15,400.00	6,027.00	5,673.00	5,656.13	169.93	19.88	-85.57	395.32	-5,530.89	9,871.50	9,759.34	112.17	88.006		
15,500.00	6,027.00	5,673.00	5,656.13	171.67	19.88	-85.57	395.32	-5,530.89	9,962.86	9,850.54	112.31	88.705		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		SEC 17-T5N-R61W - EXIST HZ PRONGHORN F-J-17HNC - OWB - FINAL SURVEY										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		509-MWD OWSG										<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Distance</b>						<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
15,600.00	6,027.00	5,673.00	5,656.13	173.41	19.88	-85.57	395.32	-5,530.89	10,054.38	9,941.92	112.46	89.405	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - EXIST HZ PRONGHORN P-T-17HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 455-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	58.54	58.54	0.27	0.10	-89.72	14.79	-2,999.42	2,999.46	2,999.09	0.37	8,094.406		
200.00	200.00	147.25	147.25	0.63	0.26	-89.71	14.95	-2,999.81	2,999.90	2,999.02	0.88	3,397.326		
300.00	300.00	235.94	235.94	0.99	0.41	-89.71	15.26	-3,000.53	3,000.72	2,999.32	1.40	2,150.504		
400.00	400.00	324.63	324.62	1.34	0.56	-89.70	15.70	-3,001.58	3,001.91	3,000.00	1.91	1,573.655		
500.00	500.00	413.31	413.29	1.70	0.72	-89.69	16.29	-3,002.97	3,003.47	3,001.05	2.42	1,241.211		
600.00	600.00	498.25	498.21	2.06	0.95	-89.68	16.97	-3,004.64	3,005.45	3,002.44	3.01	999.914		
700.00	700.00	580.41	580.34	2.42	1.25	-89.66	17.64	-3,006.74	3,008.01	3,004.35	3.66	822.162		
800.00	800.00	712.30	712.19	2.78	1.72	-89.67	17.44	-3,009.80	3,010.33	3,005.84	4.49	670.979		
900.00	900.00	823.18	823.04	3.14	2.11	-89.70	15.80	-3,011.61	3,011.96	3,006.72	5.24	575.348		
1,000.00	999.98	1,018.67	1,018.49	3.49	2.78	-0.51	12.21	-3,011.80	3,010.54	3,004.28	6.26	481.048		
1,100.00	1,099.84	1,249.44	1,249.02	3.83	3.56	-0.48	14.14	-3,002.47	3,001.12	2,993.74	7.38	406.759		
1,200.00	1,199.45	1,372.71	1,371.79	4.19	3.98	-0.35	21.00	-2,993.93	2,985.45	2,977.30	8.15	366.382		
1,300.00	1,298.70	1,446.00	1,444.64	4.55	4.24	-0.23	27.34	-2,989.08	2,966.79	2,958.03	8.76	338.815		
1,400.00	1,397.47	1,504.55	1,502.79	4.94	4.46	-0.11	33.34	-2,985.83	2,945.79	2,936.47	9.32	315.994		
1,500.00	1,495.62	1,568.00	1,565.80	5.34	4.69	0.03	40.39	-2,983.27	2,922.80	2,912.90	9.91	295.055		
1,600.00	1,593.06	1,659.44	1,656.56	5.78	5.03	0.25	51.05	-2,980.18	2,897.16	2,886.56	10.60	273.361		
1,700.00	1,689.64	1,754.86	1,751.27	6.24	5.38	0.49	62.17	-2,976.74	2,868.01	2,856.70	11.31	253.566		
1,800.00	1,785.27	1,851.43	1,847.19	6.75	5.75	0.73	72.83	-2,973.34	2,835.65	2,823.62	12.04	235.608		
1,900.00	1,880.44	1,956.57	1,951.69	7.30	6.15	0.98	83.66	-2,969.27	2,801.52	2,788.74	12.78	219.170		
2,000.00	1,975.60	2,050.05	2,044.56	7.86	6.50	1.22	93.67	-2,965.48	2,767.27	2,753.78	13.50	205.054		
2,100.00	2,070.77	2,133.50	2,127.41	8.43	6.83	1.44	103.03	-2,962.22	2,733.21	2,719.03	14.18	192.741		
2,200.00	2,165.93	2,221.37	2,214.70	9.02	7.17	1.67	112.69	-2,959.11	2,699.54	2,684.65	14.89	181.328		
2,300.00	2,261.10	2,316.94	2,309.63	9.62	7.54	1.93	123.14	-2,955.73	2,665.91	2,650.28	15.63	170.607		
2,400.00	2,356.26	2,409.88	2,401.97	10.23	7.90	2.19	133.22	-2,952.43	2,632.31	2,615.95	16.36	160.903		
2,500.00	2,451.43	2,503.92	2,495.38	10.84	8.27	2.46	143.49	-2,949.09	2,598.76	2,581.66	17.10	151.957		
2,600.00	2,546.59	2,597.98	2,588.77	11.46	8.64	2.75	154.22	-2,945.69	2,565.25	2,547.40	17.85	143.716		
2,700.00	2,641.76	2,678.00	2,668.18	12.09	8.96	3.01	163.58	-2,942.78	2,531.81	2,513.25	18.55	136.453		
2,800.00	2,736.92	2,760.83	2,750.42	12.72	9.28	3.27	173.13	-2,940.16	2,498.87	2,479.60	19.27	129.664		
2,900.00	2,832.09	2,861.90	2,850.88	13.35	9.68	3.59	183.98	-2,937.70	2,466.61	2,446.57	20.05	123.031		
3,000.00	2,927.25	2,987.14	2,975.49	13.99	10.17	3.94	195.62	-2,933.20	2,433.16	2,412.27	20.90	116.430		
3,100.00	3,022.42	3,084.68	3,072.43	14.63	10.55	4.26	205.49	-2,928.94	2,399.14	2,377.47	21.67	110.737		
3,200.00	3,117.58	3,163.38	3,150.49	15.27	10.87	4.55	214.95	-2,925.64	2,365.50	2,343.12	22.39	105.668		
3,300.00	3,212.75	3,246.99	3,233.20	15.91	11.21	4.92	226.77	-2,922.45	2,332.45	2,309.32	23.14	100.806		
3,400.00	3,307.91	3,341.50	3,326.32	16.56	11.61	5.40	242.49	-2,918.88	2,299.80	2,275.86	23.94	96.063		
3,500.00	3,403.08	3,466.14	3,448.42	17.20	12.17	6.16	266.72	-2,912.72	2,266.50	2,241.63	24.87	91.142		
3,600.00	3,498.24	3,587.24	3,566.70	17.85	12.72	6.97	291.48	-2,904.78	2,232.02	2,206.22	25.80	86.520		
3,700.00	3,593.41	3,682.93	3,660.10	18.50	13.17	7.63	311.09	-2,897.84	2,197.19	2,170.54	26.65	82.446		
3,800.00	3,688.57	3,784.31	3,759.19	19.15	13.63	8.33	331.13	-2,890.24	2,162.30	2,134.78	27.52	78.565		
3,900.00	3,783.74	3,875.41	3,848.56	19.81	14.04	8.94	347.36	-2,883.34	2,127.33	2,098.97	28.35	75.026		
4,000.00	3,878.90	3,960.13	3,932.08	20.46	14.42	9.45	360.29	-2,877.45	2,092.77	2,063.61	29.16	71.763		
4,100.00	3,974.07	4,038.32	4,009.32	21.11	14.75	9.92	371.40	-2,872.56	2,058.88	2,028.94	29.95	68.751		
4,200.00	4,069.23	4,117.43	4,087.54	21.77	15.09	10.38	382.34	-2,868.21	2,025.78	1,995.05	30.73	65.915		
4,300.00	4,164.40	4,202.00	4,171.39	22.42	15.44	10.86	392.68	-2,864.37	1,993.44	1,961.91	31.53	63.217		
4,400.00	4,259.56	4,285.93	4,254.79	23.08	15.77	11.29	401.59	-2,861.20	1,961.66	1,929.34	32.32	60.698		
4,500.00	4,354.73	4,385.08	4,353.45	23.74	16.16	11.78	410.89	-2,857.80	1,930.11	1,896.97	33.14	58.242		
4,600.00	4,449.89	4,486.75	4,454.58	24.39	16.56	12.31	420.47	-2,853.70	1,898.12	1,864.15	33.97	55.877		
4,700.00	4,545.06	4,575.75	4,542.99	25.05	16.92	12.82	429.96	-2,849.86	1,866.28	1,831.49	34.79	53.651		
4,800.00	4,640.22	4,665.03	4,631.63	25.71	17.28	13.37	439.90	-2,846.13	1,834.81	1,799.20	35.61	51.523		
4,900.00	4,735.39	4,749.72	4,715.84	26.37	17.61	13.87	448.40	-2,843.05	1,803.77	1,767.35	36.42	49.522		
5,000.00	4,830.55	4,836.00	4,801.80	27.03	17.94	14.33	455.42	-2,840.96	1,773.54	1,736.30	37.23	47.634		
5,100.00	4,925.72	4,918.61	4,884.26	27.69	18.24	14.71	460.28	-2,839.92	1,743.93	1,705.92	38.01	45.879		
5,200.00	5,020.88	5,013.56	4,979.15	28.35	18.56	15.08	463.52	-2,839.56	1,714.65	1,675.85	38.80	44.196		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 455-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,120.19	5,085.76	29.01	18.92	15.45	465.28	-2,839.34	1,685.16	1,645.58	39.58	42.575		
5,400.00	5,211.21	5,237.48	5,203.05	29.67	19.30	15.83	465.86	-2,837.91	1,654.45	1,614.09	40.36	40.993		
5,500.00	5,306.38	5,327.35	5,292.90	30.33	19.59	16.14	466.09	-2,836.53	1,623.46	1,582.34	41.12	39.483		
5,600.00	5,401.54	5,430.19	5,395.73	30.99	19.92	16.49	466.29	-2,834.92	1,592.49	1,550.60	41.89	38.019		
5,700.00	5,496.71	5,531.91	5,497.43	31.65	20.25	12.28	466.20	-2,832.76	1,560.93	1,518.28	42.65	36.595		
5,800.00	5,591.13	5,743.89	5,706.57	32.30	20.78	-19.98	438.00	-2,827.67	1,522.69	1,479.76	42.93	35.469		
5,900.00	5,682.22	5,870.80	5,822.43	32.92	20.95	-45.04	386.85	-2,827.84	1,477.60	1,434.69	42.91	34.432		
6,000.00	5,767.23	5,929.62	5,871.90	33.50	21.00	-61.85	355.09	-2,828.88	1,432.79	1,389.65	43.14	33.213		
6,100.00	5,843.56	5,957.66	5,894.13	34.04	21.02	-73.00	338.03	-2,829.74	1,393.45	1,349.92	43.53	32.011		
6,200.00	5,908.90	5,965.98	5,900.54	34.53	21.03	-80.10	332.74	-2,830.01	1,362.63	1,318.53	44.10	30.899		
6,300.00	5,961.25	5,951.21	5,889.10	34.99	21.02	-83.74	342.06	-2,829.52	1,342.18	1,297.29	44.89	29.900		
6,400.00	5,999.04	5,935.34	5,876.51	35.42	21.01	-85.35	351.71	-2,829.03	1,332.89	1,286.99	45.90	29.036		
6,432.17	6,007.90	5,929.01	5,871.41	35.54	21.00	-85.44	355.44	-2,828.87	1,332.31	1,286.02	46.29	28.782	CC, ES	
6,500.00	6,021.11	5,913.22	5,858.46	35.83	20.99	-85.00	364.48	-2,828.51	1,334.84	1,287.69	47.15	28.308		
6,600.00	6,027.00	5,888.00	5,837.23	36.24	20.97	-83.26	378.09	-2,828.05	1,347.24	1,298.66	48.58	27.732		
6,700.00	6,027.00	5,856.00	5,809.54	36.68	20.94	-82.08	394.11	-2,827.74	1,367.08	1,316.96	50.12	27.278		
6,800.00	6,027.00	5,833.15	5,789.29	37.20	20.91	-81.22	404.70	-2,827.66	1,392.92	1,341.14	51.78	26.899		
6,900.00	6,027.00	5,810.40	5,768.72	37.80	20.89	-80.34	414.41	-2,827.59	1,424.58	1,371.12	53.47	26.644		
7,000.00	6,027.00	5,793.00	5,752.73	38.47	20.86	-79.67	421.26	-2,827.53	1,461.81	1,406.66	55.15	26.507	SF	
7,100.00	6,027.00	5,775.83	5,736.75	39.21	20.84	-79.00	427.55	-2,827.50	1,504.34	1,447.59	56.75	26.508		
7,200.00	6,027.00	5,761.00	5,722.82	40.02	20.81	-78.42	432.62	-2,827.52	1,551.84	1,493.57	58.27	26.633		
7,300.00	6,027.00	5,761.00	5,722.82	40.89	20.81	-78.42	432.62	-2,827.52	1,604.00	1,544.24	59.76	26.840		
7,400.00	6,027.00	5,744.81	5,707.46	41.83	20.79	-77.78	437.73	-2,827.66	1,660.25	1,599.22	61.03	27.206		
7,500.00	6,027.00	5,729.00	5,692.30	42.83	20.76	-77.15	442.23	-2,827.96	1,720.49	1,658.32	62.17	27.673		
7,600.00	6,027.00	5,729.00	5,692.30	43.88	20.76	-77.15	442.23	-2,827.96	1,784.03	1,720.74	63.30	28.186		
7,700.00	6,027.00	5,729.00	5,692.30	44.99	20.76	-77.15	442.23	-2,827.96	1,850.80	1,786.50	64.30	28.782		
7,800.00	6,027.00	5,715.12	5,678.90	46.14	20.73	-76.60	445.82	-2,828.29	1,920.29	1,855.16	65.13	29.484		
7,900.00	6,027.00	5,697.00	5,661.29	47.33	20.69	-75.89	450.06	-2,828.77	1,992.42	1,926.58	65.84	30.260		
8,000.00	6,027.00	5,697.00	5,661.29	48.57	20.69	-75.89	450.06	-2,828.77	2,066.61	2,000.04	66.57	31.044		
8,100.00	6,027.00	5,697.00	5,661.29	49.84	20.69	-75.89	450.06	-2,828.77	2,142.89	2,075.67	67.22	31.879		
8,200.00	6,027.00	5,697.00	5,661.29	51.15	20.69	-75.89	450.06	-2,828.77	2,221.06	2,153.26	67.80	32.759		
8,300.00	6,027.00	5,683.99	5,648.58	52.48	20.67	-75.37	452.79	-2,829.11	2,300.79	2,232.53	68.26	33.708		
8,400.00	6,027.00	5,678.84	5,643.53	53.85	20.65	-75.17	453.80	-2,829.24	2,382.04	2,313.34	68.70	34.673		
8,500.00	6,027.00	5,666.00	5,630.90	55.24	20.63	-74.66	456.14	-2,829.54	2,464.68	2,395.62	69.06	35.688		
8,600.00	6,027.00	5,666.00	5,630.90	56.65	20.63	-74.66	456.14	-2,829.54	2,548.44	2,479.00	69.44	36.700		
8,700.00	6,027.00	5,666.00	5,630.90	58.08	20.63	-74.66	456.14	-2,829.54	2,633.34	2,563.56	69.78	37.737		
8,800.00	6,027.00	5,666.00	5,630.90	59.54	20.63	-74.66	456.14	-2,829.54	2,719.26	2,649.17	70.09	38.797		
8,900.00	6,027.00	5,666.00	5,630.90	61.01	20.63	-74.66	456.14	-2,829.54	2,806.12	2,735.75	70.37	39.879		
9,000.00	6,027.00	5,666.00	5,630.90	62.50	20.63	-74.66	456.14	-2,829.54	2,893.82	2,823.20	70.62	40.979		
9,100.00	6,027.00	5,651.64	5,616.73	64.01	20.59	-74.10	458.47	-2,829.86	2,982.13	2,911.34	70.79	42.126		
9,200.00	6,027.00	5,648.64	5,613.77	65.53	20.58	-73.98	458.91	-2,829.93	3,071.24	3,000.25	70.99	43.264		
9,300.00	6,027.00	5,634.00	5,599.28	67.06	20.55	-73.40	460.92	-2,830.27	3,161.10	3,089.97	71.12	44.445		
9,400.00	6,027.00	5,634.00	5,599.28	68.61	20.55	-73.40	460.92	-2,830.27	3,251.38	3,180.08	71.30	45.601		
9,500.00	6,027.00	5,634.00	5,599.28	70.17	20.55	-73.40	460.92	-2,830.27	3,342.22	3,270.76	71.46	46.769		
9,600.00	6,027.00	5,634.00	5,599.28	71.73	20.55	-73.40	460.92	-2,830.27	3,433.57	3,361.96	71.61	47.947		
9,700.00	6,027.00	5,634.00	5,599.28	73.31	20.55	-73.40	460.92	-2,830.27	3,525.39	3,453.64	71.75	49.136		
9,800.00	6,027.00	5,634.00	5,599.28	74.90	20.55	-73.40	460.92	-2,830.27	3,617.64	3,545.76	71.87	50.333		
9,900.00	6,027.00	5,634.00	5,599.28	76.50	20.55	-73.40	460.92	-2,830.27	3,710.29	3,638.30	71.99	51.538		
10,000.00	6,027.00	5,634.00	5,599.28	78.10	20.55	-73.40	460.92	-2,830.27	3,803.31	3,731.21	72.10	52.751		
10,100.00	6,027.00	5,634.00	5,599.28	79.71	20.55	-73.40	460.92	-2,830.27	3,896.69	3,824.48	72.20	53.970		
10,200.00	6,027.00	5,634.00	5,599.28	81.33	20.55	-73.40	460.92	-2,830.27	3,990.38	3,918.08	72.30	55.195		
10,300.00	6,027.00	5,634.00	5,599.28	82.96	20.55	-73.40	460.92	-2,830.27	4,084.37	4,011.98	72.38	56.427		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 17-T5N-R61W - EXIST HZ PRONGHORN P-T-17HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 455-MWD OWSSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,634.00	5,599.28	84.59	20.55	-73.40	460.92	-2,830.27	4,178.64	4,106.17	72.47	57.663		
10,500.00	6,027.00	5,634.00	5,599.28	86.23	20.55	-73.40	460.92	-2,830.27	4,273.17	4,200.62	72.54	58.904		
10,600.00	6,027.00	5,634.00	5,599.28	87.87	20.55	-73.40	460.92	-2,830.27	4,367.94	4,295.33	72.62	60.150		
10,700.00	6,027.00	5,619.82	5,585.20	89.52	20.51	-72.85	462.55	-2,830.61	4,462.76	4,390.12	72.64	61.434		
10,800.00	6,027.00	5,618.58	5,583.96	91.17	20.51	-72.80	462.68	-2,830.64	4,557.94	4,485.24	72.71	62.690		
10,900.00	6,027.00	5,617.39	5,582.78	92.83	20.50	-72.75	462.80	-2,830.67	4,653.33	4,580.56	72.77	63.949		
11,000.00	6,027.00	5,616.24	5,581.63	94.49	20.50	-72.71	462.91	-2,830.70	4,748.90	4,676.07	72.82	65.212		
11,100.00	6,027.00	5,602.00	5,567.45	96.16	20.46	-72.15	464.13	-2,831.07	4,844.80	4,771.96	72.84	66.516		
11,200.00	6,027.00	5,602.00	5,567.45	97.83	20.46	-72.15	464.13	-2,831.07	4,940.69	4,867.80	72.89	67.781		
11,300.00	6,027.00	5,602.00	5,567.45	99.50	20.46	-72.15	464.13	-2,831.07	5,036.74	4,963.79	72.95	69.048		
11,400.00	6,027.00	5,602.00	5,567.45	101.18	20.46	-72.15	464.13	-2,831.07	5,132.93	5,059.94	73.00	70.318		
11,500.00	6,027.00	5,602.00	5,567.45	102.86	20.46	-72.15	464.13	-2,831.07	5,229.28	5,156.23	73.05	71.589		
11,600.00	6,027.00	5,602.00	5,567.45	104.54	20.46	-72.15	464.13	-2,831.07	5,325.75	5,252.66	73.09	72.862		
11,700.00	6,027.00	5,602.00	5,567.45	106.23	20.46	-72.15	464.13	-2,831.07	5,422.36	5,349.22	73.14	74.137		
11,800.00	6,027.00	5,602.00	5,567.45	107.92	20.46	-72.15	464.13	-2,831.07	5,519.08	5,445.90	73.18	75.414		
11,900.00	6,027.00	5,602.00	5,567.45	109.61	20.46	-72.15	464.13	-2,831.07	5,615.92	5,542.69	73.23	76.691		
12,000.00	6,027.00	5,602.00	5,567.45	111.31	20.46	-72.15	464.13	-2,831.07	5,712.87	5,639.60	73.27	77.970		
12,100.00	6,027.00	5,602.00	5,567.45	113.00	20.46	-72.15	464.13	-2,831.07	5,809.92	5,736.61	73.31	79.250		
12,200.00	6,027.00	5,602.00	5,567.45	114.71	20.46	-72.15	464.13	-2,831.07	5,907.07	5,833.72	73.35	80.530		
12,300.00	6,027.00	5,602.00	5,567.45	116.41	20.46	-72.15	464.13	-2,831.07	6,004.32	5,930.92	73.39	81.812		
12,400.00	6,027.00	5,602.00	5,567.45	118.11	20.46	-72.15	464.13	-2,831.07	6,101.65	6,028.22	73.43	83.094		
12,500.00	6,027.00	5,602.00	5,567.45	119.82	20.46	-72.15	464.13	-2,831.07	6,199.07	6,125.60	73.47	84.376		
12,600.00	6,027.00	5,602.00	5,567.45	121.53	20.46	-72.15	464.13	-2,831.07	6,296.57	6,223.06	73.51	85.659		
12,700.00	6,027.00	5,602.00	5,567.45	123.24	20.46	-72.15	464.13	-2,831.07	6,394.14	6,320.60	73.54	86.942		
12,800.00	6,027.00	5,602.00	5,567.45	124.95	20.46	-72.15	464.13	-2,831.07	6,491.79	6,418.21	73.58	88.226		
12,900.00	6,027.00	5,602.00	5,567.45	126.66	20.46	-72.15	464.13	-2,831.07	6,589.51	6,515.90	73.62	89.509		
13,000.00	6,027.00	5,602.00	5,567.45	128.38	20.46	-72.15	464.13	-2,831.07	6,687.30	6,613.65	73.65	90.793		
13,100.00	6,027.00	5,602.00	5,567.45	130.10	20.46	-72.15	464.13	-2,831.07	6,785.15	6,711.46	73.69	92.077		
13,200.00	6,027.00	5,602.00	5,567.45	131.82	20.46	-72.15	464.13	-2,831.07	6,883.07	6,809.34	73.73	93.360		
13,300.00	6,027.00	5,602.00	5,567.45	133.54	20.46	-72.15	464.13	-2,831.07	6,981.04	6,907.28	73.76	94.643		
13,400.00	6,027.00	5,602.00	5,567.45	135.26	20.46	-72.15	464.13	-2,831.07	7,079.07	7,005.27	73.80	95.926		
13,500.00	6,027.00	5,602.00	5,567.45	136.98	20.46	-72.15	464.13	-2,831.07	7,177.16	7,103.32	73.83	97.209		
13,600.00	6,027.00	5,602.00	5,567.45	138.71	20.46	-72.15	464.13	-2,831.07	7,275.29	7,201.42	73.87	98.491		
13,700.00	6,027.00	5,602.00	5,567.45	140.43	20.46	-72.15	464.13	-2,831.07	7,373.48	7,299.58	73.90	99.773		
13,800.00	6,027.00	5,602.00	5,567.45	142.16	20.46	-72.15	464.13	-2,831.07	7,471.71	7,397.78	73.94	101.055		
13,900.00	6,027.00	5,602.00	5,567.45	143.89	20.46	-72.15	464.13	-2,831.07	7,569.99	7,496.02	73.97	102.336		
14,000.00	6,027.00	5,602.00	5,567.45	145.62	20.46	-72.15	464.13	-2,831.07	7,668.32	7,594.31	74.01	103.616		
14,100.00	6,027.00	5,602.00	5,567.45	147.35	20.46	-72.15	464.13	-2,831.07	7,766.69	7,692.64	74.04	104.895		
14,200.00	6,027.00	5,602.00	5,567.45	149.08	20.46	-72.15	464.13	-2,831.07	7,865.10	7,791.02	74.08	106.174		
14,300.00	6,027.00	5,602.00	5,567.45	150.81	20.46	-72.15	464.13	-2,831.07	7,963.55	7,889.43	74.11	107.452		
14,400.00	6,027.00	5,602.00	5,567.45	152.54	20.46	-72.15	464.13	-2,831.07	8,062.03	7,987.88	74.15	108.729		
14,500.00	6,027.00	5,602.00	5,567.45	154.28	20.46	-72.15	464.13	-2,831.07	8,160.56	8,086.37	74.18	110.005		
14,600.00	6,027.00	5,602.00	5,567.45	156.01	20.46	-72.15	464.13	-2,831.07	8,259.12	8,184.90	74.22	111.281		
14,700.00	6,027.00	5,602.00	5,567.45	157.75	20.46	-72.15	464.13	-2,831.07	8,357.71	8,283.45	74.25	112.555		
14,800.00	6,027.00	5,602.00	5,567.45	159.49	20.46	-72.15	464.13	-2,831.07	8,456.34	8,382.05	74.29	113.829		
14,900.00	6,027.00	5,602.00	5,567.45	161.22	20.46	-72.15	464.13	-2,831.07	8,554.99	8,480.67	74.33	115.101		
15,000.00	6,027.00	5,602.00	5,567.45	162.96	20.46	-72.15	464.13	-2,831.07	8,653.68	8,579.32	74.36	116.372		
15,100.00	6,027.00	5,602.00	5,567.45	164.70	20.46	-72.15	464.13	-2,831.07	8,752.40	8,678.00	74.40	117.642		
15,200.00	6,027.00	5,602.00	5,567.45	166.44	20.46	-72.15	464.13	-2,831.07	8,851.15	8,776.72	74.43	118.911		
15,300.00	6,027.00	5,602.00	5,567.45	168.18	20.46	-72.15	464.13	-2,831.07	8,949.93	8,875.45	74.47	120.179		
15,400.00	6,027.00	5,602.00	5,567.45	169.93	20.46	-72.15	464.13	-2,831.07	9,048.73	8,974.22	74.51	121.445		
15,500.00	6,027.00	5,602.00	5,567.45	171.67	20.46	-72.15	464.13	-2,831.07	9,147.56	9,073.01	74.55	122.711		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 455-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	5,587.23	5,552.72	173.41	20.42	-71.58	465.06	-2,831.45	9,246.24	9,171.69	74.54	124.036	
15,700.00	6,027.00	5,586.88	5,552.37	175.15	20.42	-71.57	465.08	-2,831.46	9,345.11	9,270.53	74.58	125.301	
15,800.00	6,027.00	5,586.54	5,552.03	176.90	20.42	-71.55	465.09	-2,831.47	9,444.00	9,369.38	74.62	126.564	
15,900.00	6,027.00	5,586.21	5,551.69	178.64	20.42	-71.54	465.11	-2,831.48	9,542.92	9,468.26	74.66	127.826	
16,000.00	6,027.00	5,585.88	5,551.36	180.39	20.41	-71.53	465.13	-2,831.48	9,641.86	9,567.16	74.69	129.086	
16,100.00	6,027.00	5,585.56	5,551.04	182.13	20.41	-71.52	465.14	-2,831.49	9,740.82	9,666.09	74.73	130.345	
16,200.00	6,027.00	5,571.00	5,536.50	183.88	20.37	-70.96	465.70	-2,831.85	9,839.96	9,765.23	74.73	131.671	
16,300.00	6,027.00	5,571.00	5,536.50	185.63	20.37	-70.96	465.70	-2,831.85	9,938.95	9,864.18	74.77	132.926	
16,400.00	6,027.00	5,571.00	5,536.50	187.38	20.37	-70.96	465.70	-2,831.85	10,037.97	9,963.16	74.81	134.179	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 455-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	58.54	58.54	0.27	0.10	-89.72	14.79	-2,999.42	2,999.46	2,999.09	0.37	8,094.406		
200.00	200.00	147.25	147.25	0.63	0.26	-89.71	14.95	-2,999.81	2,999.90	2,999.02	0.88	3,397.326		
300.00	300.00	235.94	235.94	0.99	0.41	-89.71	15.26	-3,000.53	3,000.72	2,999.32	1.40	2,150.504		
400.00	400.00	324.63	324.62	1.34	0.56	-89.70	15.70	-3,001.58	3,001.91	3,000.00	1.91	1,573.655		
500.00	500.00	413.31	413.29	1.70	0.72	-89.69	16.29	-3,002.97	3,003.47	3,001.05	2.42	1,241.211		
600.00	600.00	498.25	498.21	2.06	0.95	-89.68	16.97	-3,004.64	3,005.45	3,002.44	3.01	999.914		
700.00	700.00	580.41	580.34	2.42	1.25	-89.66	17.64	-3,006.74	3,008.01	3,004.35	3.66	822.162		
800.00	800.00	712.30	712.19	2.78	1.72	-89.67	17.44	-3,009.80	3,010.33	3,005.84	4.49	670.979		
900.00	900.00	823.18	823.04	3.14	2.11	-89.70	15.80	-3,011.61	3,011.96	3,006.72	5.24	575.348		
1,000.00	999.98	1,018.67	1,018.49	3.49	2.78	-0.51	12.21	-3,011.80	3,010.54	3,004.28	6.26	481.048		
1,100.00	1,099.84	1,249.44	1,249.02	3.83	3.56	-0.48	14.14	-3,002.47	3,001.12	2,993.74	7.38	406.759		
1,200.00	1,199.45	1,372.71	1,371.79	4.19	3.98	-0.35	21.00	-2,993.93	2,985.45	2,977.30	8.15	366.382		
1,300.00	1,298.70	1,446.00	1,444.64	4.55	4.24	-0.23	27.34	-2,989.08	2,966.79	2,958.03	8.76	338.815		
1,400.00	1,397.47	1,504.55	1,502.79	4.94	4.46	-0.11	33.34	-2,985.83	2,945.79	2,936.47	9.32	315.994		
1,500.00	1,495.62	1,568.00	1,565.80	5.34	4.69	0.03	40.39	-2,983.27	2,922.80	2,912.90	9.91	295.055		
1,600.00	1,593.06	1,659.44	1,656.56	5.78	5.03	0.25	51.05	-2,980.18	2,897.16	2,886.56	10.60	273.361		
1,700.00	1,689.64	1,754.86	1,751.27	6.24	5.38	0.49	62.17	-2,976.74	2,868.01	2,856.70	11.31	253.566		
1,800.00	1,785.27	1,851.43	1,847.19	6.75	5.75	0.73	72.83	-2,973.34	2,835.65	2,823.62	12.04	235.608		
1,900.00	1,880.44	1,956.57	1,951.69	7.30	6.15	0.98	83.66	-2,969.27	2,801.52	2,788.74	12.78	219.170		
2,000.00	1,975.60	2,050.05	2,044.56	7.86	6.50	1.22	93.67	-2,965.48	2,767.27	2,753.78	13.50	205.054		
2,100.00	2,070.77	2,133.50	2,127.41	8.43	6.83	1.44	103.03	-2,962.22	2,733.21	2,719.03	14.18	192.741		
2,200.00	2,165.93	2,221.37	2,214.70	9.02	7.17	1.67	112.69	-2,959.11	2,699.54	2,684.65	14.89	181.328		
2,300.00	2,261.10	2,316.94	2,309.63	9.62	7.54	1.93	123.14	-2,955.73	2,665.91	2,650.28	15.63	170.607		
2,400.00	2,356.26	2,409.88	2,401.97	10.23	7.90	2.19	133.22	-2,952.43	2,632.31	2,615.95	16.36	160.903		
2,500.00	2,451.43	2,503.92	2,495.38	10.84	8.27	2.46	143.49	-2,949.09	2,598.76	2,581.66	17.10	151.957		
2,600.00	2,546.59	2,597.98	2,588.77	11.46	8.64	2.75	154.22	-2,945.69	2,565.25	2,547.40	17.85	143.716		
2,700.00	2,641.76	2,678.00	2,668.18	12.09	8.96	3.01	163.58	-2,942.78	2,531.81	2,513.25	18.55	136.453		
2,800.00	2,736.92	2,760.83	2,750.42	12.72	9.28	3.27	173.13	-2,940.16	2,498.87	2,479.60	19.27	129.664		
2,900.00	2,832.09	2,861.90	2,850.88	13.35	9.68	3.59	183.98	-2,937.70	2,466.61	2,446.57	20.05	123.031		
3,000.00	2,927.25	2,987.14	2,975.49	13.99	10.17	3.94	195.62	-2,933.20	2,433.16	2,412.27	20.90	116.430		
3,100.00	3,022.42	3,084.68	3,072.43	14.63	10.55	4.26	205.49	-2,928.94	2,399.14	2,377.47	21.67	110.737		
3,200.00	3,117.58	3,163.38	3,150.49	15.27	10.87	4.55	214.95	-2,925.64	2,365.50	2,343.12	22.39	105.668		
3,300.00	3,212.75	3,246.99	3,233.20	15.91	11.21	4.92	226.77	-2,922.45	2,332.45	2,309.32	23.14	100.806		
3,400.00	3,307.91	3,341.50	3,326.32	16.56	11.61	5.40	242.49	-2,918.88	2,299.80	2,275.86	23.94	96.063		
3,500.00	3,403.08	3,466.14	3,448.42	17.20	12.17	6.16	266.72	-2,912.72	2,266.50	2,241.63	24.87	91.142		
3,600.00	3,498.24	3,587.24	3,566.70	17.85	12.72	6.97	291.48	-2,904.78	2,232.02	2,206.22	25.80	86.520		
3,700.00	3,593.41	3,682.93	3,660.10	18.50	13.17	7.63	311.09	-2,897.84	2,197.19	2,170.54	26.65	82.446		
3,800.00	3,688.57	3,784.31	3,759.19	19.15	13.63	8.33	331.13	-2,890.24	2,162.30	2,134.78	27.52	78.565		
3,900.00	3,783.74	3,875.41	3,848.56	19.81	14.04	8.94	347.36	-2,883.34	2,127.33	2,098.97	28.35	75.026		
4,000.00	3,878.90	3,960.13	3,932.08	20.46	14.42	9.45	360.29	-2,877.45	2,092.77	2,063.61	29.16	71.763		
4,100.00	3,974.07	4,038.32	4,009.32	21.11	14.75	9.92	371.40	-2,872.56	2,058.88	2,028.94	29.95	68.751		
4,200.00	4,069.23	4,117.43	4,087.54	21.77	15.09	10.38	382.34	-2,868.21	2,025.78	1,995.05	30.73	65.915		
4,300.00	4,164.40	4,202.00	4,171.39	22.42	15.44	10.86	392.68	-2,864.37	1,993.44	1,961.91	31.53	63.217		
4,400.00	4,259.56	4,285.93	4,254.79	23.08	15.77	11.29	401.59	-2,861.20	1,961.66	1,929.34	32.32	60.698		
4,500.00	4,354.73	4,385.08	4,353.45	23.74	16.16	11.78	410.89	-2,857.80	1,930.11	1,896.97	33.14	58.242		
4,600.00	4,449.89	4,486.75	4,454.58	24.39	16.56	12.31	420.47	-2,853.70	1,898.12	1,864.15	33.97	55.877		
4,700.00	4,545.06	4,575.75	4,542.99	25.05	16.92	12.82	429.96	-2,849.86	1,866.28	1,831.49	34.79	53.651		
4,800.00	4,640.22	4,665.03	4,631.63	25.71	17.28	13.37	439.90	-2,846.13	1,834.81	1,799.20	35.61	51.523		
4,900.00	4,735.39	4,749.72	4,715.84	26.37	17.61	13.87	448.40	-2,843.05	1,803.77	1,767.35	36.42	49.522		
5,000.00	4,830.55	4,836.00	4,801.80	27.03	17.94	14.33	455.42	-2,840.96	1,773.54	1,736.30	37.23	47.634		
5,100.00	4,925.72	4,918.61	4,884.26	27.69	18.24	14.71	460.28	-2,839.92	1,743.93	1,705.92	38.01	45.879		
5,200.00	5,020.88	5,013.56	4,979.15	28.35	18.56	15.08	463.52	-2,839.56	1,714.65	1,675.85	38.80	44.196		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 455-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,120.19	5,085.76	29.01	18.92	15.45	465.28	-2,839.34	1,685.16	1,645.58	39.58	42.575		
5,400.00	5,211.21	5,237.48	5,203.05	29.67	19.30	15.83	465.86	-2,837.91	1,654.45	1,614.09	40.36	40.993		
5,500.00	5,306.38	5,327.35	5,292.90	30.33	19.59	16.14	466.09	-2,836.53	1,623.46	1,582.34	41.12	39.483		
5,600.00	5,401.54	5,430.19	5,395.73	30.99	19.92	16.49	466.29	-2,834.92	1,592.49	1,550.60	41.89	38.019		
5,700.00	5,496.71	5,531.91	5,497.43	31.65	20.25	12.28	466.20	-2,832.76	1,560.93	1,518.28	42.65	36.595		
5,800.00	5,591.13	5,743.89	5,706.57	32.30	20.78	-19.98	438.00	-2,827.67	1,522.69	1,479.76	42.93	35.469		
5,900.00	5,682.22	5,870.80	5,822.43	32.92	20.95	-45.04	386.85	-2,827.84	1,477.60	1,434.69	42.91	34.432		
6,000.00	5,767.23	5,929.62	5,871.90	33.50	21.00	-61.85	355.09	-2,828.88	1,432.79	1,389.65	43.14	33.213		
6,100.00	5,843.56	5,957.66	5,894.13	34.04	21.02	-73.00	338.03	-2,829.74	1,393.45	1,349.92	43.53	32.011		
6,200.00	5,908.90	5,965.98	5,900.54	34.53	21.03	-80.10	332.74	-2,830.01	1,362.63	1,318.53	44.10	30.899		
6,300.00	5,961.25	5,951.21	5,889.10	34.99	21.02	-83.74	342.06	-2,829.52	1,342.18	1,297.29	44.89	29.900		
6,400.00	5,999.04	5,935.34	5,876.51	35.42	21.01	-85.35	351.71	-2,829.03	1,332.89	1,286.99	45.90	29.036		
6,432.17	6,007.90	5,929.01	5,871.41	35.54	21.00	-85.44	355.44	-2,828.87	1,332.31	1,286.02	46.29	28.782	CC, ES	
6,500.00	6,021.11	5,913.22	5,858.46	35.83	20.99	-85.00	364.48	-2,828.51	1,334.84	1,287.69	47.15	28.308		
6,600.00	6,027.00	5,888.00	5,837.23	36.24	20.97	-83.26	378.09	-2,828.05	1,347.24	1,298.66	48.58	27.732		
6,700.00	6,027.00	5,856.00	5,809.54	36.68	20.94	-82.08	394.11	-2,827.74	1,367.08	1,316.96	50.12	27.278		
6,800.00	6,027.00	5,833.15	5,789.29	37.20	20.91	-81.22	404.70	-2,827.66	1,392.92	1,341.14	51.78	26.899		
6,900.00	6,027.00	5,810.40	5,768.72	37.80	20.89	-80.34	414.41	-2,827.59	1,424.58	1,371.12	53.47	26.644		
7,000.00	6,027.00	5,793.00	5,752.73	38.47	20.86	-79.67	421.26	-2,827.53	1,461.81	1,406.66	55.15	26.507	SF	
7,100.00	6,027.00	5,775.83	5,736.75	39.21	20.84	-79.00	427.55	-2,827.50	1,504.34	1,447.59	56.75	26.508		
7,200.00	6,027.00	5,761.00	5,722.82	40.02	20.81	-78.42	432.62	-2,827.52	1,551.84	1,493.57	58.27	26.633		
7,300.00	6,027.00	5,761.00	5,722.82	40.89	20.81	-78.42	432.62	-2,827.52	1,604.00	1,544.24	59.76	26.840		
7,400.00	6,027.00	5,744.81	5,707.46	41.83	20.79	-77.78	437.73	-2,827.66	1,660.25	1,599.22	61.03	27.206		
7,500.00	6,027.00	5,729.00	5,692.30	42.83	20.76	-77.15	442.23	-2,827.96	1,720.49	1,658.32	62.17	27.673		
7,600.00	6,027.00	5,729.00	5,692.30	43.88	20.76	-77.15	442.23	-2,827.96	1,784.03	1,720.74	63.30	28.186		
7,700.00	6,027.00	5,729.00	5,692.30	44.99	20.76	-77.15	442.23	-2,827.96	1,850.80	1,786.50	64.30	28.782		
7,800.00	6,027.00	5,715.12	5,678.90	46.14	20.73	-76.60	445.82	-2,828.29	1,920.29	1,855.16	65.13	29.484		
7,900.00	6,027.00	5,697.00	5,661.29	47.33	20.69	-75.89	450.06	-2,828.77	1,992.42	1,926.58	65.84	30.260		
8,000.00	6,027.00	5,697.00	5,661.29	48.57	20.69	-75.89	450.06	-2,828.77	2,066.61	2,000.04	66.57	31.044		
8,100.00	6,027.00	5,697.00	5,661.29	49.84	20.69	-75.89	450.06	-2,828.77	2,142.89	2,075.67	67.22	31.879		
8,200.00	6,027.00	5,697.00	5,661.29	51.15	20.69	-75.89	450.06	-2,828.77	2,221.06	2,153.26	67.80	32.759		
8,300.00	6,027.00	5,683.99	5,648.58	52.48	20.67	-75.37	452.79	-2,829.11	2,300.79	2,232.53	68.26	33.708		
8,400.00	6,027.00	5,678.84	5,643.53	53.85	20.65	-75.17	453.80	-2,829.24	2,382.04	2,313.34	68.70	34.673		
8,500.00	6,027.00	5,666.00	5,630.90	55.24	20.63	-74.66	456.14	-2,829.54	2,464.68	2,395.62	69.06	35.688		
8,600.00	6,027.00	5,666.00	5,630.90	56.65	20.63	-74.66	456.14	-2,829.54	2,548.44	2,479.00	69.44	36.700		
8,700.00	6,027.00	5,666.00	5,630.90	58.08	20.63	-74.66	456.14	-2,829.54	2,633.34	2,563.56	69.78	37.737		
8,800.00	6,027.00	5,666.00	5,630.90	59.54	20.63	-74.66	456.14	-2,829.54	2,719.26	2,649.17	70.09	38.797		
8,900.00	6,027.00	5,666.00	5,630.90	61.01	20.63	-74.66	456.14	-2,829.54	2,806.12	2,735.75	70.37	39.879		
9,000.00	6,027.00	5,666.00	5,630.90	62.50	20.63	-74.66	456.14	-2,829.54	2,893.82	2,823.20	70.62	40.979		
9,100.00	6,027.00	5,651.64	5,616.73	64.01	20.59	-74.10	458.47	-2,829.86	2,982.13	2,911.34	70.79	42.126		
9,200.00	6,027.00	5,648.64	5,613.77	65.53	20.58	-73.98	458.91	-2,829.93	3,071.24	3,000.25	70.99	43.264		
9,300.00	6,027.00	5,634.00	5,599.28	67.06	20.55	-73.40	460.92	-2,830.27	3,161.10	3,089.97	71.12	44.445		
9,400.00	6,027.00	5,634.00	5,599.28	68.61	20.55	-73.40	460.92	-2,830.27	3,251.38	3,180.08	71.30	45.601		
9,500.00	6,027.00	5,634.00	5,599.28	70.17	20.55	-73.40	460.92	-2,830.27	3,342.22	3,270.76	71.46	46.769		
9,600.00	6,027.00	5,634.00	5,599.28	71.73	20.55	-73.40	460.92	-2,830.27	3,433.57	3,361.96	71.61	47.947		
9,700.00	6,027.00	5,634.00	5,599.28	73.31	20.55	-73.40	460.92	-2,830.27	3,525.39	3,453.64	71.75	49.136		
9,800.00	6,027.00	5,634.00	5,599.28	74.90	20.55	-73.40	460.92	-2,830.27	3,617.64	3,545.76	71.87	50.333		
9,900.00	6,027.00	5,634.00	5,599.28	76.50	20.55	-73.40	460.92	-2,830.27	3,710.29	3,638.30	71.99	51.538		
10,000.00	6,027.00	5,634.00	5,599.28	78.10	20.55	-73.40	460.92	-2,830.27	3,803.31	3,731.21	72.10	52.751		
10,100.00	6,027.00	5,634.00	5,599.28	79.71	20.55	-73.40	460.92	-2,830.27	3,896.69	3,824.48	72.20	53.970		
10,200.00	6,027.00	5,634.00	5,599.28	81.33	20.55	-73.40	460.92	-2,830.27	3,990.38	3,918.08	72.30	55.195		
10,300.00	6,027.00	5,634.00	5,599.28	82.96	20.55	-73.40	460.92	-2,830.27	4,084.37	4,011.98	72.38	56.427		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 17-T5N-R61W - EXIST HZ PRONGHORN P-T-17HNB - STK 1 - STK 1													Offset Site Error:	0.00 usft
Survey Program: 455-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,634.00	5,599.28	84.59	20.55	-73.40	460.92	-2,830.27	4,178.64	4,106.17	72.47	57.663		
10,500.00	6,027.00	5,634.00	5,599.28	86.23	20.55	-73.40	460.92	-2,830.27	4,273.17	4,200.62	72.54	58.904		
10,600.00	6,027.00	5,634.00	5,599.28	87.87	20.55	-73.40	460.92	-2,830.27	4,367.94	4,295.33	72.62	60.150		
10,700.00	6,027.00	5,619.82	5,585.20	89.52	20.51	-72.85	462.55	-2,830.61	4,462.76	4,390.12	72.64	61.434		
10,800.00	6,027.00	5,618.58	5,583.96	91.17	20.51	-72.80	462.68	-2,830.64	4,557.94	4,485.24	72.71	62.690		
10,900.00	6,027.00	5,617.39	5,582.78	92.83	20.50	-72.75	462.80	-2,830.67	4,653.33	4,580.56	72.77	63.949		
11,000.00	6,027.00	5,616.24	5,581.63	94.49	20.50	-72.71	462.91	-2,830.70	4,748.90	4,676.07	72.82	65.212		
11,100.00	6,027.00	5,602.00	5,567.45	96.16	20.46	-72.15	464.13	-2,831.07	4,844.80	4,771.96	72.84	66.516		
11,200.00	6,027.00	5,602.00	5,567.45	97.83	20.46	-72.15	464.13	-2,831.07	4,940.69	4,867.80	72.89	67.781		
11,300.00	6,027.00	5,602.00	5,567.45	99.50	20.46	-72.15	464.13	-2,831.07	5,036.74	4,963.79	72.95	69.048		
11,400.00	6,027.00	5,602.00	5,567.45	101.18	20.46	-72.15	464.13	-2,831.07	5,132.93	5,059.94	73.00	70.318		
11,500.00	6,027.00	5,602.00	5,567.45	102.86	20.46	-72.15	464.13	-2,831.07	5,229.28	5,156.23	73.05	71.589		
11,600.00	6,027.00	5,602.00	5,567.45	104.54	20.46	-72.15	464.13	-2,831.07	5,325.75	5,252.66	73.09	72.862		
11,700.00	6,027.00	5,602.00	5,567.45	106.23	20.46	-72.15	464.13	-2,831.07	5,422.36	5,349.22	73.14	74.137		
11,800.00	6,027.00	5,602.00	5,567.45	107.92	20.46	-72.15	464.13	-2,831.07	5,519.08	5,445.90	73.18	75.414		
11,900.00	6,027.00	5,602.00	5,567.45	109.61	20.46	-72.15	464.13	-2,831.07	5,615.92	5,542.69	73.23	76.691		
12,000.00	6,027.00	5,602.00	5,567.45	111.31	20.46	-72.15	464.13	-2,831.07	5,712.87	5,639.60	73.27	77.970		
12,100.00	6,027.00	5,602.00	5,567.45	113.00	20.46	-72.15	464.13	-2,831.07	5,809.92	5,736.61	73.31	79.250		
12,200.00	6,027.00	5,602.00	5,567.45	114.71	20.46	-72.15	464.13	-2,831.07	5,907.07	5,833.72	73.35	80.530		
12,300.00	6,027.00	5,602.00	5,567.45	116.41	20.46	-72.15	464.13	-2,831.07	6,004.32	5,930.92	73.39	81.812		
12,400.00	6,027.00	5,602.00	5,567.45	118.11	20.46	-72.15	464.13	-2,831.07	6,101.65	6,028.22	73.43	83.094		
12,500.00	6,027.00	5,602.00	5,567.45	119.82	20.46	-72.15	464.13	-2,831.07	6,199.07	6,125.60	73.47	84.376		
12,600.00	6,027.00	5,602.00	5,567.45	121.53	20.46	-72.15	464.13	-2,831.07	6,296.57	6,223.06	73.51	85.659		
12,700.00	6,027.00	5,602.00	5,567.45	123.24	20.46	-72.15	464.13	-2,831.07	6,394.14	6,320.60	73.54	86.942		
12,800.00	6,027.00	5,602.00	5,567.45	124.95	20.46	-72.15	464.13	-2,831.07	6,491.79	6,418.21	73.58	88.226		
12,900.00	6,027.00	5,602.00	5,567.45	126.66	20.46	-72.15	464.13	-2,831.07	6,589.51	6,515.90	73.62	89.509		
13,000.00	6,027.00	5,602.00	5,567.45	128.38	20.46	-72.15	464.13	-2,831.07	6,687.30	6,613.65	73.65	90.793		
13,100.00	6,027.00	5,602.00	5,567.45	130.10	20.46	-72.15	464.13	-2,831.07	6,785.15	6,711.46	73.69	92.077		
13,200.00	6,027.00	5,602.00	5,567.45	131.82	20.46	-72.15	464.13	-2,831.07	6,883.07	6,809.34	73.73	93.360		
13,300.00	6,027.00	5,602.00	5,567.45	133.54	20.46	-72.15	464.13	-2,831.07	6,981.04	6,907.28	73.76	94.643		
13,400.00	6,027.00	5,602.00	5,567.45	135.26	20.46	-72.15	464.13	-2,831.07	7,079.07	7,005.27	73.80	95.926		
13,500.00	6,027.00	5,602.00	5,567.45	136.98	20.46	-72.15	464.13	-2,831.07	7,177.16	7,103.32	73.83	97.209		
13,600.00	6,027.00	5,602.00	5,567.45	138.71	20.46	-72.15	464.13	-2,831.07	7,275.29	7,201.42	73.87	98.491		
13,700.00	6,027.00	5,602.00	5,567.45	140.43	20.46	-72.15	464.13	-2,831.07	7,373.48	7,299.58	73.90	99.773		
13,800.00	6,027.00	5,602.00	5,567.45	142.16	20.46	-72.15	464.13	-2,831.07	7,471.71	7,397.78	73.94	101.055		
13,900.00	6,027.00	5,602.00	5,567.45	143.89	20.46	-72.15	464.13	-2,831.07	7,569.99	7,496.02	73.97	102.336		
14,000.00	6,027.00	5,602.00	5,567.45	145.62	20.46	-72.15	464.13	-2,831.07	7,668.32	7,594.31	74.01	103.616		
14,100.00	6,027.00	5,602.00	5,567.45	147.35	20.46	-72.15	464.13	-2,831.07	7,766.69	7,692.64	74.04	104.895		
14,200.00	6,027.00	5,602.00	5,567.45	149.08	20.46	-72.15	464.13	-2,831.07	7,865.10	7,791.02	74.08	106.174		
14,300.00	6,027.00	5,602.00	5,567.45	150.81	20.46	-72.15	464.13	-2,831.07	7,963.55	7,889.43	74.11	107.452		
14,400.00	6,027.00	5,602.00	5,567.45	152.54	20.46	-72.15	464.13	-2,831.07	8,062.03	7,987.88	74.15	108.729		
14,500.00	6,027.00	5,602.00	5,567.45	154.28	20.46	-72.15	464.13	-2,831.07	8,160.56	8,086.37	74.18	110.005		
14,600.00	6,027.00	5,602.00	5,567.45	156.01	20.46	-72.15	464.13	-2,831.07	8,259.12	8,184.90	74.22	111.281		
14,700.00	6,027.00	5,602.00	5,567.45	157.75	20.46	-72.15	464.13	-2,831.07	8,357.71	8,283.45	74.25	112.555		
14,800.00	6,027.00	5,602.00	5,567.45	159.49	20.46	-72.15	464.13	-2,831.07	8,456.34	8,382.05	74.29	113.829		
14,900.00	6,027.00	5,602.00	5,567.45	161.22	20.46	-72.15	464.13	-2,831.07	8,554.99	8,480.67	74.33	115.101		
15,000.00	6,027.00	5,602.00	5,567.45	162.96	20.46	-72.15	464.13	-2,831.07	8,653.68	8,579.32	74.36	116.372		
15,100.00	6,027.00	5,602.00	5,567.45	164.70	20.46	-72.15	464.13	-2,831.07	8,752.40	8,678.00	74.40	117.642		
15,200.00	6,027.00	5,602.00	5,567.45	166.44	20.46	-72.15	464.13	-2,831.07	8,851.15	8,776.72	74.43	118.911		
15,300.00	6,027.00	5,602.00	5,567.45	168.18	20.46	-72.15	464.13	-2,831.07	8,949.93	8,875.45	74.47	120.179		
15,400.00	6,027.00	5,602.00	5,567.45	169.93	20.46	-72.15	464.13	-2,831.07	9,048.73	8,974.22	74.51	121.445		
15,500.00	6,027.00	5,602.00	5,567.45	171.67	20.46	-72.15	464.13	-2,831.07	9,147.56	9,073.01	74.55	122.711		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 455-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	5,587.23	5,552.72	173.41	20.42	-71.58	465.06	-2,831.45	9,246.24	9,171.69	74.54	124.036	
15,700.00	6,027.00	5,586.88	5,552.37	175.15	20.42	-71.57	465.08	-2,831.46	9,345.11	9,270.53	74.58	125.301	
15,800.00	6,027.00	5,586.54	5,552.03	176.90	20.42	-71.55	465.09	-2,831.47	9,444.00	9,369.38	74.62	126.564	
15,900.00	6,027.00	5,586.21	5,551.69	178.64	20.42	-71.54	465.11	-2,831.48	9,542.92	9,468.26	74.66	127.826	
16,000.00	6,027.00	5,585.88	5,551.36	180.39	20.41	-71.53	465.13	-2,831.48	9,641.86	9,567.16	74.69	129.086	
16,100.00	6,027.00	5,585.56	5,551.04	182.13	20.41	-71.52	465.14	-2,831.49	9,740.82	9,666.09	74.73	130.345	
16,200.00	6,027.00	5,571.00	5,536.50	183.88	20.37	-70.96	465.70	-2,831.85	9,839.96	9,765.23	74.73	131.671	
16,300.00	6,027.00	5,571.00	5,536.50	185.63	20.37	-70.96	465.70	-2,831.85	9,938.95	9,864.18	74.77	132.926	
16,400.00	6,027.00	5,571.00	5,536.50	187.38	20.37	-70.96	465.70	-2,831.85	10,037.97	9,963.16	74.81	134.179	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.00	6,027.00	5,978.00	5,978.00	58.08	119.86	-90.00	11,628.21	-6,264.49	10,110.06	9,963.30	146.75	68.892		
8,800.00	6,027.00	5,978.00	5,978.00	59.54	119.86	-90.00	11,628.21	-6,264.49	10,021.90	9,875.00	146.90	68.223		
8,900.00	6,027.00	5,978.00	5,978.00	61.01	119.86	-90.00	11,628.21	-6,264.49	9,933.98	9,786.88	147.10	67.534		
9,000.00	6,027.00	5,978.00	5,978.00	62.50	119.86	-90.00	11,628.21	-6,264.49	9,846.28	9,698.94	147.34	66.827		
9,100.00	6,027.00	5,978.00	5,978.00	64.01	119.86	-90.00	11,628.21	-6,264.49	9,758.82	9,611.19	147.63	66.103		
9,200.00	6,027.00	5,978.00	5,978.00	65.53	119.86	-90.00	11,628.21	-6,264.49	9,671.61	9,523.63	147.97	65.360		
9,300.00	6,027.00	5,978.00	5,978.00	67.06	119.86	-90.00	11,628.21	-6,264.49	9,584.64	9,436.27	148.37	64.601		
9,400.00	6,027.00	5,978.00	5,978.00	68.61	119.86	-90.00	11,628.21	-6,264.49	9,497.93	9,349.12	148.81	63.825		
9,500.00	6,027.00	5,978.00	5,978.00	70.17	119.86	-90.00	11,628.21	-6,264.49	9,411.48	9,262.17	149.31	63.033		
9,600.00	6,027.00	5,978.00	5,978.00	71.73	119.86	-90.00	11,628.21	-6,264.49	9,325.31	9,175.45	149.86	62.227		
9,700.00	6,027.00	5,978.00	5,978.00	73.31	119.86	-90.00	11,628.21	-6,264.49	9,239.41	9,088.95	150.46	61.406		
9,800.00	6,027.00	5,978.00	5,978.00	74.90	119.86	-90.00	11,628.21	-6,264.49	9,153.80	9,002.68	151.12	60.574		
9,900.00	6,027.00	5,978.00	5,978.00	76.50	119.86	-90.00	11,628.21	-6,264.49	9,068.48	8,916.66	151.83	59.729		
10,000.00	6,027.00	5,978.00	5,978.00	78.10	119.86	-90.00	11,628.21	-6,264.49	8,983.47	8,830.89	152.59	58.875		
10,100.00	6,027.00	5,978.00	5,978.00	79.71	119.86	-90.00	11,628.21	-6,264.49	8,898.77	8,745.37	153.40	58.011		
10,200.00	6,027.00	5,978.00	5,978.00	81.33	119.86	-90.00	11,628.21	-6,264.49	8,814.39	8,660.13	154.26	57.139		
10,300.00	6,027.00	5,978.00	5,978.00	82.96	119.86	-90.00	11,628.21	-6,264.49	8,730.34	8,575.16	155.18	56.260		
10,400.00	6,027.00	5,978.00	5,978.00	84.59	119.86	-90.00	11,628.21	-6,264.49	8,646.63	8,490.48	156.14	55.376		
10,500.00	6,027.00	5,978.00	5,978.00	86.23	119.86	-90.00	11,628.21	-6,264.49	8,563.27	8,406.11	157.16	54.488		
10,600.00	6,027.00	5,978.00	5,978.00	87.87	119.86	-90.00	11,628.21	-6,264.49	8,480.26	8,322.04	158.23	53.596		
10,700.00	6,027.00	5,978.00	5,978.00	89.52	119.86	-90.00	11,628.21	-6,264.49	8,397.63	8,238.29	159.34	52.702		
10,800.00	6,027.00	5,978.00	5,978.00	91.17	119.86	-90.00	11,628.21	-6,264.49	8,315.38	8,154.88	160.51	51.807		
10,900.00	6,027.00	5,978.00	5,978.00	92.83	119.86	-90.00	11,628.21	-6,264.49	8,233.52	8,071.80	161.72	50.912		
11,000.00	6,027.00	5,978.00	5,978.00	94.49	119.86	-90.00	11,628.21	-6,264.49	8,152.07	7,989.09	162.98	50.019		
11,100.00	6,027.00	5,978.00	5,978.00	96.16	119.86	-90.00	11,628.21	-6,264.49	8,071.04	7,906.74	164.29	49.126		
11,200.00	6,027.00	5,978.00	5,978.00	97.83	119.86	-90.00	11,628.21	-6,264.49	7,990.43	7,824.78	165.65	48.237		
11,300.00	6,027.00	5,978.00	5,978.00	99.50	119.86	-90.00	11,628.21	-6,264.49	7,910.27	7,743.21	167.05	47.352		
11,400.00	6,027.00	5,978.00	5,978.00	101.18	119.86	-90.00	11,628.21	-6,264.49	7,830.56	7,662.05	168.51	46.471		
11,500.00	6,027.00	5,978.00	5,978.00	102.86	119.86	-90.00	11,628.21	-6,264.49	7,751.32	7,581.32	170.01	45.595		
11,600.00	6,027.00	5,978.00	5,978.00	104.54	119.86	-90.00	11,628.21	-6,264.49	7,672.57	7,501.02	171.55	44.724		
11,700.00	6,027.00	5,978.00	5,978.00	106.23	119.86	-90.00	11,628.21	-6,264.49	7,594.32	7,421.18	173.15	43.861		
11,800.00	6,027.00	5,978.00	5,978.00	107.92	119.86	-90.00	11,628.21	-6,264.49	7,516.59	7,341.80	174.79	43.005		
11,900.00	6,027.00	5,978.00	5,978.00	109.61	119.86	-90.00	11,628.21	-6,264.49	7,439.38	7,262.91	176.47	42.156		
12,000.00	6,027.00	5,978.00	5,978.00	111.31	119.86	-90.00	11,628.21	-6,264.49	7,362.73	7,184.52	178.21	41.316		
12,100.00	6,027.00	5,978.00	5,978.00	113.00	119.86	-90.00	11,628.21	-6,264.49	7,286.64	7,106.65	179.99	40.484		
12,200.00	6,027.00	5,978.00	5,978.00	114.71	119.86	-90.00	11,628.21	-6,264.49	7,211.13	7,029.32	181.82	39.662		
12,300.00	6,027.00	5,978.00	5,978.00	116.41	119.86	-90.00	11,628.21	-6,264.49	7,136.23	6,952.54	183.69	38.849		
12,400.00	6,027.00	5,978.00	5,978.00	118.11	119.86	-90.00	11,628.21	-6,264.49	7,061.95	6,876.34	185.61	38.047		
12,500.00	6,027.00	5,978.00	5,978.00	119.82	119.86	-90.00	11,628.21	-6,264.49	6,988.31	6,800.73	187.58	37.255		
12,600.00	6,027.00	5,978.00	5,978.00	121.53	119.86	-90.00	11,628.21	-6,264.49	6,915.34	6,725.74	189.60	36.474		
12,700.00	6,027.00	5,978.00	5,978.00	123.24	119.86	-90.00	11,628.21	-6,264.49	6,843.04	6,651.38	191.66	35.704		
12,800.00	6,027.00	5,978.00	5,978.00	124.95	119.86	-90.00	11,628.21	-6,264.49	6,771.45	6,577.68	193.77	34.945		
12,900.00	6,027.00	5,978.00	5,978.00	126.66	119.86	-90.00	11,628.21	-6,264.49	6,700.59	6,504.66	195.93	34.199		
13,000.00	6,027.00	5,978.00	5,978.00	128.38	119.86	-90.00	11,628.21	-6,264.49	6,630.48	6,432.34	198.14	33.464		
13,100.00	6,027.00	5,978.00	5,978.00	130.10	119.86	-90.00	11,628.21	-6,264.49	6,561.14	6,360.76	200.39	32.742		
13,200.00	6,027.00	5,978.00	5,978.00	131.82	119.86	-90.00	11,628.21	-6,264.49	6,492.61	6,289.92	202.69	32.033		
13,300.00	6,027.00	5,978.00	5,978.00	133.54	119.86	-90.00	11,628.21	-6,264.49	6,424.90	6,219.87	205.03	31.336		
13,400.00	6,027.00	5,978.00	5,978.00	135.26	119.86	-90.00	11,628.21	-6,264.49	6,358.04	6,150.61	207.43	30.652		
13,500.00	6,027.00	5,978.00	5,978.00	136.98	119.86	-90.00	11,628.21	-6,264.49	6,292.06	6,082.19	209.86	29.981		
13,600.00	6,027.00	5,978.00	5,978.00	138.71	119.86	-90.00	11,628.21	-6,264.49	6,226.99	6,014.64	212.35	29.324		
13,700.00	6,027.00	5,978.00	5,978.00	140.43	119.86	-90.00	11,628.21	-6,264.49	6,162.85	5,947.97	214.88	28.680		
13,800.00	6,027.00	5,978.00	5,978.00	142.16	119.86	-90.00	11,628.21	-6,264.49	6,099.68	5,882.22	217.46	28.050		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT BOWMAN 32-1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	6,027.00	5,978.00	5,978.00	143.89	119.86	-90.00	11,628.21	-6,264.49	6,037.50	5,817.42	220.08	27.434		
14,000.00	6,027.00	5,978.00	5,978.00	145.62	119.86	-90.00	11,628.21	-6,264.49	5,976.35	5,753.61	222.74	26.831		
14,100.00	6,027.00	5,978.00	5,978.00	147.35	119.86	-90.00	11,628.21	-6,264.49	5,916.26	5,690.81	225.45	26.242		
14,200.00	6,027.00	5,978.00	5,978.00	149.08	119.86	-90.00	11,628.21	-6,264.49	5,857.26	5,629.06	228.20	25.668		
14,300.00	6,027.00	5,978.00	5,978.00	150.81	119.86	-90.00	11,628.21	-6,264.49	5,799.38	5,568.40	230.98	25.107		
14,400.00	6,027.00	5,978.00	5,978.00	152.54	119.86	-90.00	11,628.21	-6,264.49	5,742.66	5,508.85	233.81	24.561		
14,500.00	6,027.00	5,978.00	5,978.00	154.28	119.86	-90.00	11,628.21	-6,264.49	5,687.14	5,450.46	236.68	24.029		
14,600.00	6,027.00	5,978.00	5,978.00	156.01	119.86	-90.00	11,628.21	-6,264.49	5,632.84	5,393.26	239.58	23.512		
14,700.00	6,027.00	5,978.00	5,978.00	157.75	119.86	-90.00	11,628.21	-6,264.49	5,579.80	5,337.29	242.51	23.008		
14,800.00	6,027.00	5,978.00	5,978.00	159.49	119.86	-90.00	11,628.21	-6,264.49	5,528.07	5,282.59	245.48	22.520		
14,900.00	6,027.00	5,978.00	5,978.00	161.22	119.86	-90.00	11,628.21	-6,264.49	5,477.67	5,229.20	248.47	22.045		
15,000.00	6,027.00	5,978.00	5,978.00	162.96	119.86	-90.00	11,628.21	-6,264.49	5,428.65	5,177.15	251.50	21.585		
15,100.00	6,027.00	5,978.00	5,978.00	164.70	119.86	-90.00	11,628.21	-6,264.49	5,381.04	5,126.50	254.55	21.140		
15,200.00	6,027.00	5,978.00	5,978.00	166.44	119.86	-90.00	11,628.21	-6,264.49	5,334.88	5,077.27	257.62	20.709		
15,300.00	6,027.00	5,978.00	5,978.00	168.18	119.86	-90.00	11,628.21	-6,264.49	5,290.21	5,029.51	260.70	20.292		
15,400.00	6,027.00	5,978.00	5,978.00	169.93	119.86	-90.00	11,628.21	-6,264.49	5,247.06	4,983.26	263.81	19.890		
15,500.00	6,027.00	5,978.00	5,978.00	171.67	119.86	-90.00	11,628.21	-6,264.49	5,205.48	4,938.56	266.92	19.502		
15,600.00	6,027.00	5,978.00	5,978.00	173.41	119.86	-90.00	11,628.21	-6,264.49	5,165.50	4,895.45	270.04	19.128		
15,700.00	6,027.00	5,978.00	5,978.00	175.15	119.86	-90.00	11,628.21	-6,264.49	5,127.15	4,853.99	273.17	18.769		
15,800.00	6,027.00	5,978.00	5,978.00	176.90	119.86	-90.00	11,628.21	-6,264.49	5,090.49	4,814.19	276.29	18.424		
15,900.00	6,027.00	5,978.00	5,978.00	178.64	119.86	-90.00	11,628.21	-6,264.49	5,055.53	4,776.12	279.41	18.093		
16,000.00	6,027.00	5,978.00	5,978.00	180.39	119.86	-90.00	11,628.21	-6,264.49	5,022.33	4,739.80	282.52	17.777		
16,100.00	6,027.00	5,978.00	5,978.00	182.13	119.86	-90.00	11,628.21	-6,264.49	4,990.90	4,705.28	285.62	17.474		
16,200.00	6,027.00	5,978.00	5,978.00	183.88	119.86	-90.00	11,628.21	-6,264.49	4,961.30	4,672.60	288.70	17.185		
16,300.00	6,027.00	5,978.00	5,978.00	185.63	119.86	-90.00	11,628.21	-6,264.49	4,933.54	4,641.79	291.75	16.910		
16,400.00	6,027.00	5,978.00	5,978.00	187.38	119.86	-90.00	11,628.21	-6,264.49	4,907.66	4,612.89	294.77	16.649		
16,500.00	6,027.00	5,978.00	5,978.00	189.12	119.86	-90.00	11,628.21	-6,264.49	4,883.70	4,585.93	297.76	16.401		
16,600.00	6,027.00	5,978.00	5,978.00	190.87	119.86	-90.00	11,628.21	-6,264.49	4,861.67	4,560.96	300.71	16.167		
16,700.00	6,027.00	5,978.00	5,978.00	192.62	119.86	-90.00	11,628.21	-6,264.49	4,841.61	4,537.99	303.62	15.946		
16,795.97	6,027.00	5,978.00	5,978.00	194.30	119.86	-90.00	11,628.21	-6,264.49	4,824.23	4,517.87	306.36	15.747	CC, ES, SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,600.00	6,027.00	6,053.00	6,053.00	156.01	121.37	-90.00	18,174.65	-4,913.14	10,155.48	9,991.89	163.59	62.079	
14,700.00	6,027.00	6,053.00	6,053.00	157.75	121.37	-90.00	18,174.65	-4,913.14	10,061.30	9,896.89	164.42	61.193	
14,800.00	6,027.00	6,053.00	6,053.00	159.49	121.37	-90.00	18,174.65	-4,913.14	9,967.24	9,801.97	165.27	60.308	
14,900.00	6,027.00	6,053.00	6,053.00	161.22	121.37	-90.00	18,174.65	-4,913.14	9,873.30	9,707.14	166.16	59.422	
15,000.00	6,027.00	6,053.00	6,053.00	162.96	121.37	-90.00	18,174.65	-4,913.14	9,779.48	9,612.41	167.07	58.536	
15,100.00	6,027.00	6,053.00	6,053.00	164.70	121.37	-90.00	18,174.65	-4,913.14	9,685.78	9,517.77	168.01	57.651	
15,200.00	6,027.00	6,053.00	6,053.00	166.44	121.37	-90.00	18,174.65	-4,913.14	9,592.21	9,423.23	168.98	56.766	
15,300.00	6,027.00	6,053.00	6,053.00	168.18	121.37	-90.00	18,174.65	-4,913.14	9,498.77	9,328.79	169.97	55.884	
15,400.00	6,027.00	6,053.00	6,053.00	169.93	121.37	-90.00	18,174.65	-4,913.14	9,405.46	9,234.46	171.00	55.002	
15,500.00	6,027.00	6,053.00	6,053.00	171.67	121.37	-90.00	18,174.65	-4,913.14	9,312.29	9,140.23	172.06	54.123	
15,600.00	6,027.00	6,053.00	6,053.00	173.41	121.37	-90.00	18,174.65	-4,913.14	9,219.27	9,046.12	173.15	53.245	
15,700.00	6,027.00	6,053.00	6,053.00	175.15	121.37	-90.00	18,174.65	-4,913.14	9,126.39	8,952.13	174.27	52.370	
15,800.00	6,027.00	6,053.00	6,053.00	176.90	121.37	-90.00	18,174.65	-4,913.14	9,033.67	8,858.25	175.42	51.498	
15,900.00	6,027.00	6,053.00	6,053.00	178.64	121.37	-90.00	18,174.65	-4,913.14	8,941.10	8,764.50	176.60	50.628	
16,000.00	6,027.00	6,053.00	6,053.00	180.39	121.37	-90.00	18,174.65	-4,913.14	8,848.69	8,670.88	177.82	49.762	
16,100.00	6,027.00	6,053.00	6,053.00	182.13	121.37	-90.00	18,174.65	-4,913.14	8,756.46	8,577.39	179.07	48.900	
16,200.00	6,027.00	6,053.00	6,053.00	183.88	121.37	-90.00	18,174.65	-4,913.14	8,664.39	8,484.04	180.35	48.041	
16,300.00	6,027.00	6,053.00	6,053.00	185.63	121.37	-90.00	18,174.65	-4,913.14	8,572.50	8,390.83	181.67	47.186	
16,400.00	6,027.00	6,053.00	6,053.00	187.38	121.37	-90.00	18,174.65	-4,913.14	8,480.79	8,297.77	183.03	46.336	
16,500.00	6,027.00	6,053.00	6,053.00	189.12	121.37	-90.00	18,174.65	-4,913.14	8,389.28	8,204.86	184.42	45.490	
16,600.00	6,027.00	6,053.00	6,053.00	190.87	121.37	-90.00	18,174.65	-4,913.14	8,297.96	8,112.11	185.85	44.649	
16,700.00	6,027.00	6,053.00	6,053.00	192.62	121.37	-90.00	18,174.65	-4,913.14	8,206.84	8,019.53	187.31	43.813	
16,795.97	6,027.00	6,053.00	6,053.00	194.30	121.37	-90.00	18,174.65	-4,913.14	8,119.59	7,930.83	188.76	43.016	CC, ES, SF

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
100.00	100.00	69.00	69.00	0.27	1.65	-22.33	8,940.51	-3,671.97	9,665.20	9,663.28	1.92	5,027.672	
200.00	200.00	169.00	169.00	0.63	3.84	-22.33	8,940.51	-3,671.97	9,665.20	9,660.73	4.46	2,164.842	
300.00	300.00	269.00	269.00	0.99	5.89	-22.33	8,940.51	-3,671.97	9,665.20	9,658.32	6.88	1,405.251	
400.00	400.00	369.00	369.00	1.34	7.92	-22.33	8,940.51	-3,671.97	9,665.20	9,655.93	9.27	1,042.994	
500.00	500.00	469.00	469.00	1.70	9.94	-22.33	8,940.51	-3,671.97	9,665.20	9,653.55	11.65	829.816	
600.00	600.00	569.00	569.00	2.06	11.96	-22.33	8,940.51	-3,671.97	9,665.20	9,651.17	14.02	689.183	
700.00	700.00	669.00	669.00	2.42	13.98	-22.33	8,940.51	-3,671.97	9,665.20	9,648.80	16.40	589.387	
800.00	800.00	769.00	769.00	2.78	15.99	-22.33	8,940.51	-3,671.97	9,665.20	9,646.43	18.77	514.873	
900.00	900.00	869.00	869.00	3.14	18.01	-22.33	8,940.51	-3,671.97	9,665.20	9,644.05	21.14	457.105	
1,000.00	999.98	968.98	968.98	3.49	20.02	66.95	8,940.51	-3,671.97	9,664.51	9,641.01	23.51	411.121	
1,100.00	1,099.84	1,068.84	1,068.84	3.83	22.03	67.02	8,940.51	-3,671.97	9,662.47	9,636.60	25.86	373.583	
1,200.00	1,199.45	1,168.45	1,168.45	4.19	24.04	67.13	8,940.51	-3,671.97	9,659.06	9,630.84	28.22	342.240	
1,300.00	1,298.70	1,267.70	1,267.70	4.55	26.03	67.28	8,940.51	-3,671.97	9,654.31	9,623.72	30.58	315.657	
1,400.00	1,397.47	1,366.47	1,366.47	4.94	28.02	67.48	8,940.51	-3,671.97	9,648.23	9,615.27	32.95	292.803	
1,500.00	1,495.62	1,464.62	1,464.62	5.34	29.99	67.72	8,940.51	-3,671.97	9,640.84	9,605.51	35.33	272.918	
1,600.00	1,593.06	1,562.06	1,562.06	5.78	31.95	68.00	8,940.51	-3,671.97	9,632.17	9,594.46	37.71	255.433	
1,700.00	1,689.64	1,658.64	1,658.64	6.24	33.90	68.32	8,940.51	-3,671.97	9,622.25	9,582.14	40.11	239.914	
1,800.00	1,785.27	1,754.27	1,754.27	6.75	35.82	68.68	8,940.51	-3,671.97	9,611.12	9,568.59	42.52	226.024	
1,900.00	1,880.44	1,849.44	1,849.44	7.30	37.74	68.84	8,940.51	-3,671.97	9,599.50	9,554.54	44.96	213.526	
2,000.00	1,975.60	1,944.60	1,944.60	7.86	39.65	69.00	8,940.51	-3,671.97	9,587.97	9,540.56	47.41	202.234	
2,100.00	2,070.77	2,039.77	2,039.77	8.43	41.56	69.17	8,940.51	-3,671.97	9,576.52	9,526.64	49.88	191.997	
2,200.00	2,165.93	2,134.93	2,134.93	9.02	43.48	69.33	8,940.51	-3,671.97	9,565.16	9,512.80	52.36	182.684	
2,300.00	2,261.10	2,230.10	2,230.10	9.62	45.39	69.50	8,940.51	-3,671.97	9,553.88	9,499.03	54.85	174.181	
2,400.00	2,356.26	2,325.26	2,325.26	10.23	47.31	69.66	8,940.51	-3,671.97	9,542.69	9,485.34	57.35	166.394	
2,500.00	2,451.43	2,420.43	2,420.43	10.84	49.22	69.83	8,940.51	-3,671.97	9,531.59	9,471.73	59.86	159.238	
2,600.00	2,546.59	2,515.59	2,515.59	11.46	51.13	69.99	8,940.51	-3,671.97	9,520.57	9,458.20	62.37	152.644	
2,700.00	2,641.76	2,610.76	2,610.76	12.09	53.05	70.16	8,940.51	-3,671.97	9,509.64	9,444.75	64.89	146.549	
2,800.00	2,736.92	2,705.92	2,705.92	12.72	54.96	70.33	8,940.51	-3,671.97	9,498.79	9,431.38	67.41	140.901	
2,900.00	2,832.09	2,801.09	2,801.09	13.35	56.88	70.50	8,940.51	-3,671.97	9,488.03	9,418.09	69.94	135.654	
3,000.00	2,927.25	2,896.25	2,896.25	13.99	58.79	70.66	8,940.51	-3,671.97	9,477.36	9,404.88	72.48	130.767	
3,100.00	3,022.42	2,991.42	2,991.42	14.63	60.70	70.83	8,940.51	-3,671.97	9,466.78	9,391.76	75.01	126.205	
3,200.00	3,117.58	3,086.58	3,086.58	15.27	62.62	71.00	8,940.51	-3,671.97	9,456.28	9,378.73	77.55	121.938	
3,300.00	3,212.75	3,181.75	3,181.75	15.91	64.53	71.17	8,940.51	-3,671.97	9,445.87	9,365.78	80.09	117.938	
3,400.00	3,307.91	3,276.91	3,276.91	16.56	66.45	71.34	8,940.51	-3,671.97	9,435.55	9,352.92	82.64	114.182	
3,500.00	3,403.08	3,372.08	3,372.08	17.20	68.36	71.51	8,940.51	-3,671.97	9,425.32	9,340.14	85.18	110.648	
3,600.00	3,498.24	3,467.24	3,467.24	17.85	70.27	71.68	8,940.51	-3,671.97	9,415.18	9,327.45	87.73	107.318	
3,700.00	3,593.41	3,562.41	3,562.41	18.50	72.19	71.85	8,940.51	-3,671.97	9,405.13	9,314.85	90.28	104.175	
3,800.00	3,688.57	3,657.57	3,657.57	19.15	74.10	72.02	8,940.51	-3,671.97	9,395.17	9,302.33	92.84	101.203	
3,900.00	3,783.74	3,752.74	3,752.74	19.81	76.02	72.19	8,940.51	-3,671.97	9,385.29	9,289.91	95.39	98.389	
4,000.00	3,878.90	3,847.90	3,847.90	20.46	77.93	72.36	8,940.51	-3,671.97	9,375.51	9,277.57	97.95	95.721	
4,100.00	3,974.07	3,943.07	3,943.07	21.11	79.84	72.53	8,940.51	-3,671.97	9,365.82	9,265.32	100.50	93.189	
4,200.00	4,069.23	4,038.23	4,038.23	21.77	81.76	72.70	8,940.51	-3,671.97	9,356.22	9,253.16	103.06	90.781	
4,300.00	4,164.40	4,133.40	4,133.40	22.42	83.67	72.87	8,940.51	-3,671.97	9,346.71	9,241.09	105.62	88.491	
4,400.00	4,259.56	4,228.56	4,228.56	23.08	85.59	73.04	8,940.51	-3,671.97	9,337.29	9,229.11	108.19	86.308	
4,500.00	4,354.73	4,323.73	4,323.73	23.74	87.50	73.22	8,940.51	-3,671.97	9,327.97	9,217.22	110.75	84.226	
4,600.00	4,449.89	4,418.89	4,418.89	24.39	89.41	73.39	8,940.51	-3,671.97	9,318.73	9,205.42	113.31	82.238	
4,700.00	4,545.06	4,514.06	4,514.06	25.05	91.33	73.56	8,940.51	-3,671.97	9,309.59	9,193.71	115.88	80.339	
4,800.00	4,640.22	4,609.22	4,609.22	25.71	93.24	73.74	8,940.51	-3,671.97	9,300.54	9,182.09	118.45	78.521	
4,900.00	4,735.39	4,704.39	4,704.39	26.37	95.15	73.91	8,940.51	-3,671.97	9,291.58	9,170.57	121.01	76.781	
5,000.00	4,830.55	4,799.55	4,799.55	27.03	97.07	74.08	8,940.51	-3,671.97	9,282.72	9,159.14	123.58	75.113	
5,100.00	4,925.72	4,894.72	4,894.72	27.69	98.98	74.26	8,940.51	-3,671.97	9,273.95	9,147.80	126.15	73.514	
5,200.00	5,020.88	4,989.88	4,989.88	28.35	100.90	74.43	8,940.51	-3,671.97	9,265.27	9,136.55	128.72	71.978	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,085.05	5,085.05	29.01	102.81	74.61	8,940.51	-3,671.97	9,256.69	9,125.39	131.30	70.503		
5,400.00	5,211.21	5,180.21	5,180.21	29.67	104.72	74.78	8,940.51	-3,671.97	9,248.20	9,114.33	133.87	69.085		
5,500.00	5,306.38	5,275.38	5,275.38	30.33	106.64	74.96	8,940.51	-3,671.97	9,239.80	9,103.36	136.44	67.720		
5,600.00	5,401.54	5,370.54	5,370.54	30.99	108.55	75.13	8,940.51	-3,671.97	9,231.50	9,092.49	139.02	66.406		
5,700.00	5,496.71	5,465.71	5,465.71	31.65	110.46	71.14	8,940.51	-3,671.97	9,223.14	9,081.55	141.59	65.140		
5,800.00	5,591.13	5,560.13	5,560.13	32.30	112.36	43.83	8,940.51	-3,671.97	9,204.42	9,060.31	144.11	63.871		
5,900.00	5,682.22	5,651.22	5,651.22	32.92	114.20	26.16	8,940.51	-3,671.97	9,169.51	9,023.03	146.48	62.601		
6,000.00	5,767.23	5,736.23	5,736.23	33.50	115.90	15.06	8,940.51	-3,671.97	9,119.44	8,970.82	148.62	61.362		
6,100.00	5,843.56	5,812.56	5,812.56	34.04	117.44	6.88	8,940.51	-3,671.97	9,055.70	8,905.23	150.47	60.183		
6,200.00	5,908.90	5,877.90	5,877.90	34.53	118.75	-0.81	8,940.51	-3,671.97	8,980.21	8,828.23	151.98	59.088		
6,300.00	5,961.25	5,930.25	5,930.25	34.99	119.81	-10.41	8,940.51	-3,671.97	8,895.26	8,742.15	153.11	58.098		
6,400.00	5,999.04	5,968.04	5,968.04	35.42	120.57	-26.22	8,940.51	-3,671.97	8,803.44	8,649.61	153.82	57.231		
6,500.00	6,021.11	5,990.11	5,990.11	35.83	121.01	-56.22	8,940.51	-3,671.97	8,707.55	8,553.44	154.11	56.503		
6,600.00	6,027.00	5,996.00	5,996.00	36.24	121.13	-90.00	8,940.51	-3,671.97	8,610.54	8,456.56	153.98	55.921		
6,700.00	6,027.00	5,996.00	5,996.00	36.68	121.13	-90.00	8,940.51	-3,671.97	8,513.77	8,360.08	153.70	55.393		
6,800.00	6,027.00	5,996.00	5,996.00	37.20	121.13	-90.00	8,940.51	-3,671.97	8,417.09	8,263.67	153.42	54.864		
6,900.00	6,027.00	5,996.00	5,996.00	37.80	121.13	-90.00	8,940.51	-3,671.97	8,320.48	8,167.34	153.14	54.333		
7,000.00	6,027.00	5,996.00	5,996.00	38.47	121.13	-90.00	8,940.51	-3,671.97	8,223.95	8,071.09	152.86	53.801		
7,100.00	6,027.00	5,996.00	5,996.00	39.21	121.13	-90.00	8,940.51	-3,671.97	8,127.50	7,974.93	152.58	53.268		
7,200.00	6,027.00	5,996.00	5,996.00	40.02	121.13	-90.00	8,940.51	-3,671.97	8,031.15	7,878.85	152.30	52.733		
7,300.00	6,027.00	5,996.00	5,996.00	40.89	121.13	-90.00	8,940.51	-3,671.97	7,934.88	7,782.86	152.02	52.196		
7,400.00	6,027.00	5,996.00	5,996.00	41.83	121.13	-90.00	8,940.51	-3,671.97	7,838.71	7,686.96	151.75	51.657		
7,500.00	6,027.00	5,996.00	5,996.00	42.83	121.13	-90.00	8,940.51	-3,671.97	7,742.63	7,591.16	151.47	51.116		
7,600.00	6,027.00	5,996.00	5,996.00	43.88	121.13	-90.00	8,940.51	-3,671.97	7,646.66	7,495.45	151.20	50.572		
7,700.00	6,027.00	5,996.00	5,996.00	44.99	121.13	-90.00	8,940.51	-3,671.97	7,550.78	7,399.85	150.94	50.026		
7,800.00	6,027.00	5,996.00	5,996.00	46.14	121.13	-90.00	8,940.51	-3,671.97	7,455.02	7,304.34	150.68	49.477		
7,900.00	6,027.00	5,996.00	5,996.00	47.33	121.13	-90.00	8,940.51	-3,671.97	7,359.37	7,208.95	150.42	48.925		
8,000.00	6,027.00	5,996.00	5,996.00	48.57	121.13	-90.00	8,940.51	-3,671.97	7,263.84	7,113.66	150.17	48.370		
8,100.00	6,027.00	5,996.00	5,996.00	49.84	121.13	-90.00	8,940.51	-3,671.97	7,168.43	7,018.49	149.93	47.811		
8,200.00	6,027.00	5,996.00	5,996.00	51.15	121.13	-90.00	8,940.51	-3,671.97	7,073.14	6,923.44	149.70	47.248		
8,300.00	6,027.00	5,996.00	5,996.00	52.48	121.13	-90.00	8,940.51	-3,671.97	6,977.99	6,828.51	149.48	46.680		
8,400.00	6,027.00	5,996.00	5,996.00	53.85	121.13	-90.00	8,940.51	-3,671.97	6,882.97	6,733.70	149.28	46.109		
8,500.00	6,027.00	5,996.00	5,996.00	55.24	121.13	-90.00	8,940.51	-3,671.97	6,788.10	6,639.02	149.08	45.532		
8,600.00	6,027.00	5,996.00	5,996.00	56.65	121.13	-90.00	8,940.51	-3,671.97	6,693.38	6,544.47	148.91	44.950		
8,700.00	6,027.00	5,996.00	5,996.00	58.08	121.13	-90.00	8,940.51	-3,671.97	6,598.81	6,450.06	148.75	44.362		
8,800.00	6,027.00	5,996.00	5,996.00	59.54	121.13	-90.00	8,940.51	-3,671.97	6,504.41	6,355.80	148.61	43.768		
8,900.00	6,027.00	5,996.00	5,996.00	61.01	121.13	-90.00	8,940.51	-3,671.97	6,410.17	6,261.68	148.50	43.167		
9,000.00	6,027.00	5,996.00	5,996.00	62.50	121.13	-90.00	8,940.51	-3,671.97	6,316.12	6,167.71	148.41	42.559		
9,100.00	6,027.00	5,996.00	5,996.00	64.01	121.13	-90.00	8,940.51	-3,671.97	6,222.25	6,073.90	148.35	41.944		
9,200.00	6,027.00	5,996.00	5,996.00	65.53	121.13	-90.00	8,940.51	-3,671.97	6,128.57	5,980.25	148.32	41.321		
9,300.00	6,027.00	5,996.00	5,996.00	67.06	121.13	-90.00	8,940.51	-3,671.97	6,035.09	5,886.77	148.32	40.689		
9,400.00	6,027.00	5,996.00	5,996.00	68.61	121.13	-90.00	8,940.51	-3,671.97	5,941.83	5,793.47	148.36	40.049		
9,500.00	6,027.00	5,996.00	5,996.00	70.17	121.13	-90.00	8,940.51	-3,671.97	5,848.79	5,700.34	148.45	39.400		
9,600.00	6,027.00	5,996.00	5,996.00	71.73	121.13	-90.00	8,940.51	-3,671.97	5,755.98	5,607.41	148.57	38.742		
9,700.00	6,027.00	5,996.00	5,996.00	73.31	121.13	-90.00	8,940.51	-3,671.97	5,663.42	5,514.67	148.75	38.074		
9,800.00	6,027.00	5,996.00	5,996.00	74.90	121.13	-90.00	8,940.51	-3,671.97	5,571.12	5,422.14	148.97	37.397		
9,900.00	6,027.00	5,996.00	5,996.00	76.50	121.13	-90.00	8,940.51	-3,671.97	5,479.08	5,329.83	149.26	36.709		
10,000.00	6,027.00	5,996.00	5,996.00	78.10	121.13	-90.00	8,940.51	-3,671.97	5,387.33	5,237.73	149.60	36.012		
10,100.00	6,027.00	5,996.00	5,996.00	79.71	121.13	-90.00	8,940.51	-3,671.97	5,295.88	5,145.88	150.00	35.306		
10,200.00	6,027.00	5,996.00	5,996.00	81.33	121.13	-90.00	8,940.51	-3,671.97	5,204.74	5,054.27	150.47	34.590		
10,300.00	6,027.00	5,996.00	5,996.00	82.96	121.13	-90.00	8,940.51	-3,671.97	5,113.94	4,962.93	151.01	33.865		
10,400.00	6,027.00	5,996.00	5,996.00	84.59	121.13	-90.00	8,940.51	-3,671.97	5,023.48	4,871.86	151.62	33.131		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,500.00	6,027.00	5,996.00	5,996.00	86.23	121.13	-90.00	8,940.51	-3,671.97	4,933.39	4,781.08	152.31	32.390		
10,600.00	6,027.00	5,996.00	5,996.00	87.87	121.13	-90.00	8,940.51	-3,671.97	4,843.69	4,690.61	153.08	31.641		
10,700.00	6,027.00	5,996.00	5,996.00	89.52	121.13	-90.00	8,940.51	-3,671.97	4,754.40	4,600.47	153.94	30.886		
10,800.00	6,027.00	5,996.00	5,996.00	91.17	121.13	-90.00	8,940.51	-3,671.97	4,665.55	4,510.67	154.87	30.125		
10,900.00	6,027.00	5,996.00	5,996.00	92.83	121.13	-90.00	8,940.51	-3,671.97	4,577.15	4,421.25	155.90	29.359		
11,000.00	6,027.00	5,996.00	5,996.00	94.49	121.13	-90.00	8,940.51	-3,671.97	4,489.25	4,332.22	157.02	28.590		
11,100.00	6,027.00	5,996.00	5,996.00	96.16	121.13	-90.00	8,940.51	-3,671.97	4,401.86	4,243.62	158.24	27.818		
11,200.00	6,027.00	5,996.00	5,996.00	97.83	121.13	-90.00	8,940.51	-3,671.97	4,315.01	4,155.46	159.55	27.045		
11,300.00	6,027.00	5,996.00	5,996.00	99.50	121.13	-90.00	8,940.51	-3,671.97	4,228.75	4,067.79	160.96	26.271		
11,400.00	6,027.00	5,996.00	5,996.00	101.18	121.13	-90.00	8,940.51	-3,671.97	4,143.11	3,980.63	162.48	25.499		
11,500.00	6,027.00	5,996.00	5,996.00	102.86	121.13	-90.00	8,940.51	-3,671.97	4,058.12	3,894.02	164.10	24.729		
11,600.00	6,027.00	5,996.00	5,996.00	104.54	121.13	-90.00	8,940.51	-3,671.97	3,973.83	3,808.00	165.84	23.962		
11,700.00	6,027.00	5,996.00	5,996.00	106.23	121.13	-90.00	8,940.51	-3,671.97	3,890.29	3,722.61	167.68	23.200		
11,800.00	6,027.00	5,996.00	5,996.00	107.92	121.13	-90.00	8,940.51	-3,671.97	3,807.54	3,637.89	169.64	22.444		
11,900.00	6,027.00	5,996.00	5,996.00	109.61	121.13	-90.00	8,940.51	-3,671.97	3,725.63	3,553.91	171.72	21.696		
12,000.00	6,027.00	5,996.00	5,996.00	111.31	121.13	-90.00	8,940.51	-3,671.97	3,644.63	3,470.71	173.92	20.955		
12,100.00	6,027.00	5,996.00	5,996.00	113.00	121.13	-90.00	8,940.51	-3,671.97	3,564.60	3,388.35	176.25	20.225		
12,200.00	6,027.00	5,996.00	5,996.00	114.71	121.13	-90.00	8,940.51	-3,671.97	3,485.59	3,306.89	178.70	19.505		
12,300.00	6,027.00	5,996.00	5,996.00	116.41	121.13	-90.00	8,940.51	-3,671.97	3,407.69	3,226.40	181.29	18.797		
12,400.00	6,027.00	5,996.00	5,996.00	118.11	121.13	-90.00	8,940.51	-3,671.97	3,330.97	3,146.96	184.01	18.102		
12,500.00	6,027.00	5,996.00	5,996.00	119.82	121.13	-90.00	8,940.51	-3,671.97	3,255.51	3,068.64	186.87	17.422		
12,600.00	6,027.00	5,996.00	5,996.00	121.53	121.13	-90.00	8,940.51	-3,671.97	3,181.41	2,991.54	189.86	16.756		
12,700.00	6,027.00	5,996.00	5,996.00	123.24	121.13	-90.00	8,940.51	-3,671.97	3,108.75	2,915.75	193.00	16.108		
12,800.00	6,027.00	5,996.00	5,996.00	124.95	121.13	-90.00	8,940.51	-3,671.97	3,037.65	2,841.38	196.28	15.476		
12,900.00	6,027.00	5,996.00	5,996.00	126.66	121.13	-90.00	8,940.51	-3,671.97	2,968.22	2,768.52	199.70	14.864		
13,000.00	6,027.00	5,996.00	5,996.00	128.38	121.13	-90.00	8,940.51	-3,671.97	2,900.58	2,697.32	203.26	14.270		
13,100.00	6,027.00	5,996.00	5,996.00	130.10	121.13	-90.00	8,940.51	-3,671.97	2,834.84	2,627.88	206.96	13.697		
13,200.00	6,027.00	5,996.00	5,996.00	131.82	121.13	-90.00	8,940.51	-3,671.97	2,771.16	2,560.36	210.80	13.146		
13,300.00	6,027.00	5,996.00	5,996.00	133.54	121.13	-90.00	8,940.51	-3,671.97	2,709.68	2,494.91	214.77	12.617		
13,400.00	6,027.00	5,996.00	5,996.00	135.26	121.13	-90.00	8,940.51	-3,671.97	2,650.54	2,431.68	218.85	12.111		
13,500.00	6,027.00	5,996.00	5,996.00	136.98	121.13	-90.00	8,940.51	-3,671.97	2,593.91	2,370.85	223.05	11.629		
13,600.00	6,027.00	5,996.00	5,996.00	138.71	121.13	-90.00	8,940.51	-3,671.97	2,539.95	2,312.60	227.35	11.172		
13,700.00	6,027.00	5,996.00	5,996.00	140.43	121.13	-90.00	8,940.51	-3,671.97	2,488.84	2,257.11	231.73	10.740		
13,800.00	6,027.00	5,996.00	5,996.00	142.16	121.13	-90.00	8,940.51	-3,671.97	2,440.77	2,204.59	236.17	10.335		
13,900.00	6,027.00	5,996.00	5,996.00	143.89	121.13	-90.00	8,940.51	-3,671.97	2,395.90	2,155.25	240.65	9.956		
14,000.00	6,027.00	5,996.00	5,996.00	145.62	121.13	-90.00	8,940.51	-3,671.97	2,354.43	2,109.29	245.15	9.604		
14,100.00	6,027.00	5,996.00	5,996.00	147.35	121.13	-90.00	8,940.51	-3,671.97	2,316.54	2,066.92	249.62	9.280		
14,200.00	6,027.00	5,996.00	5,996.00	149.08	121.13	-90.00	8,940.51	-3,671.97	2,282.40	2,028.36	254.04	8.984		
14,300.00	6,027.00	5,996.00	5,996.00	150.81	121.13	-90.00	8,940.51	-3,671.97	2,252.19	1,993.81	258.37	8.717		
14,400.00	6,027.00	5,996.00	5,996.00	152.54	121.13	-90.00	8,940.51	-3,671.97	2,226.06	1,963.48	262.58	8.478		
14,500.00	6,027.00	5,996.00	5,996.00	154.28	121.13	-90.00	8,940.51	-3,671.97	2,204.17	1,937.54	266.63	8.267		
14,600.00	6,027.00	5,996.00	5,996.00	156.01	121.13	-90.00	8,940.51	-3,671.97	2,186.63	1,916.16	270.47	8.085		
14,700.00	6,027.00	5,996.00	5,996.00	157.75	121.13	-90.00	8,940.51	-3,671.97	2,173.56	1,899.48	274.07	7.931		
14,800.00	6,027.00	5,996.00	5,996.00	159.49	121.13	-90.00	8,940.51	-3,671.97	2,165.03	1,887.62	277.41	7.804		
14,900.00	6,027.00	5,996.00	5,996.00	161.22	121.13	-90.00	8,940.51	-3,671.97	2,161.10	1,880.65	280.45	7.706		
14,934.00	6,027.00	5,996.00	5,996.00	161.82	121.13	-90.00	8,940.51	-3,671.97	2,160.82	1,879.41	281.41	7.679 CC		
15,000.00	6,027.00	5,996.00	5,996.00	162.96	121.13	-90.00	8,940.51	-3,671.97	2,161.79	1,878.63	283.16	7.635 ES		
15,100.00	6,027.00	5,996.00	5,996.00	164.70	121.13	-90.00	8,940.51	-3,671.97	2,167.11	1,881.57	285.53	7.590		
15,200.00	6,027.00	5,996.00	5,996.00	166.44	121.13	-90.00	8,940.51	-3,671.97	2,177.00	1,889.45	287.56	7.571 SF		
15,300.00	6,027.00	5,996.00	5,996.00	168.18	121.13	-90.00	8,940.51	-3,671.97	2,191.43	1,902.20	289.22	7.577		
15,400.00	6,027.00	5,996.00	5,996.00	169.93	121.13	-90.00	8,940.51	-3,671.97	2,210.28	1,919.74	290.54	7.607		
15,500.00	6,027.00	5,996.00	5,996.00	171.67	121.13	-90.00	8,940.51	-3,671.97	2,233.46	1,941.94	291.52	7.662		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-INC												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	5,996.00	5,996.00	173.41	121.13	-90.00	8,940.51	-3,671.97	2,260.83	1,968.66	292.17	7.738	
15,700.00	6,027.00	5,996.00	5,996.00	175.15	121.13	-90.00	8,940.51	-3,671.97	2,292.24	1,999.73	292.51	7.837	
15,800.00	6,027.00	5,996.00	5,996.00	176.90	121.13	-90.00	8,940.51	-3,671.97	2,327.52	2,034.96	292.56	7.956	
15,900.00	6,027.00	5,996.00	5,996.00	178.64	121.13	-90.00	8,940.51	-3,671.97	2,366.51	2,074.15	292.35	8.095	
16,000.00	6,027.00	5,996.00	5,996.00	180.39	121.13	-90.00	8,940.51	-3,671.97	2,409.01	2,117.10	291.91	8.253	
16,100.00	6,027.00	5,996.00	5,996.00	182.13	121.13	-90.00	8,940.51	-3,671.97	2,454.86	2,163.60	291.26	8.428	
16,200.00	6,027.00	5,996.00	5,996.00	183.88	121.13	-90.00	8,940.51	-3,671.97	2,503.87	2,213.44	290.43	8.621	
16,300.00	6,027.00	5,996.00	5,996.00	185.63	121.13	-90.00	8,940.51	-3,671.97	2,555.85	2,266.40	289.44	8.830	
16,400.00	6,027.00	5,996.00	5,996.00	187.38	121.13	-90.00	8,940.51	-3,671.97	2,610.62	2,322.30	288.32	9.055	
16,500.00	6,027.00	5,996.00	5,996.00	189.12	121.13	-90.00	8,940.51	-3,671.97	2,668.02	2,380.94	287.09	9.293	
16,600.00	6,027.00	5,996.00	5,996.00	190.87	121.13	-90.00	8,940.51	-3,671.97	2,727.88	2,442.12	285.77	9.546	
16,700.00	6,027.00	5,996.00	5,996.00	192.62	121.13	-90.00	8,940.51	-3,671.97	2,790.05	2,505.67	284.37	9.811	
16,795.97	6,027.00	5,996.00	5,996.00	194.30	121.13	-90.00	8,940.51	-3,671.97	2,851.72	2,568.74	282.98	10.077	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - GYRO													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	54.63	54.63	0.27	0.09	-22.33	8,940.54	-3,672.00	9,665.25	9,664.89	0.36	N/A		
200.00	200.00	159.80	159.80	0.63	0.37	-22.33	8,940.68	-3,672.21	9,665.45	9,664.45	0.99	9,721.631		
300.00	300.00	257.56	257.56	0.99	0.71	-22.33	8,940.61	-3,672.49	9,665.49	9,663.80	1.69	5,704.327		
400.00	400.00	337.49	337.49	1.34	0.99	-22.33	8,940.66	-3,672.81	9,665.71	9,663.38	2.33	4,143.919		
500.00	500.00	416.90	416.90	1.70	1.27	-22.33	8,940.87	-3,673.21	9,666.15	9,663.18	2.97	3,255.690		
600.00	600.00	500.00	499.99	2.06	1.56	-22.34	8,941.22	-3,673.76	9,666.79	9,663.17	3.62	2,671.374		
700.00	700.00	632.35	632.34	2.42	2.02	-22.34	8,941.51	-3,674.94	9,667.32	9,662.88	4.44	2,176.613		
800.00	800.00	736.28	736.27	2.78	2.39	-22.35	8,941.48	-3,675.90	9,667.65	9,662.48	5.16	1,872.013		
900.00	900.00	820.54	820.52	3.14	2.68	-22.35	8,941.52	-3,676.71	9,668.06	9,662.24	5.82	1,661.690		
1,000.00	999.98	900.00	899.97	3.49	2.96	66.91	8,941.58	-3,677.86	9,667.99	9,661.54	6.45	1,499.376		
1,100.00	1,099.84	1,000.00	999.96	3.83	3.31	66.95	8,941.59	-3,679.39	9,666.53	9,659.38	7.15	1,352.628		
1,200.00	1,199.45	1,076.87	1,076.82	4.19	3.58	67.03	8,941.66	-3,680.61	9,663.84	9,656.06	7.77	1,243.607		
1,300.00	1,298.70	1,153.15	1,153.08	4.55	3.85	67.14	8,941.95	-3,682.14	9,660.16	9,651.76	8.40	1,149.485		
1,400.00	1,397.47	1,240.54	1,240.45	4.94	4.16	67.30	8,942.41	-3,683.91	9,655.30	9,646.21	9.09	1,061.981		
1,500.00	1,495.62	1,321.39	1,321.28	5.34	4.45	67.48	8,942.80	-3,685.87	9,649.24	9,639.46	9.78	986.967		
1,600.00	1,593.06	1,400.00	1,399.85	5.78	4.73	67.70	8,943.29	-3,688.21	9,642.18	9,631.69	10.48	920.028		
1,700.00	1,689.64	1,469.93	1,469.74	6.24	4.98	67.94	8,943.84	-3,690.49	9,634.06	9,622.88	11.18	861.369		
1,800.00	1,785.27	1,562.55	1,562.31	6.75	5.31	68.24	8,944.66	-3,693.38	9,624.78	9,612.77	12.01	801.715		
1,900.00	1,880.44	1,686.39	1,686.11	7.30	5.75	68.44	8,945.92	-3,696.58	9,614.92	9,601.96	12.96	741.756		
2,000.00	1,975.60	1,888.57	1,888.25	7.86	6.46	68.77	8,946.67	-3,700.10	9,604.09	9,589.88	14.21	675.996		
2,100.00	2,070.77	1,961.07	1,960.75	8.43	6.71	68.89	8,946.95	-3,700.73	9,593.22	9,578.21	15.01	638.942		
2,200.00	2,165.93	2,048.19	2,047.87	9.02	7.01	69.04	8,947.57	-3,701.38	9,582.66	9,566.78	15.88	603.273		
2,300.00	2,261.10	2,139.82	2,139.49	9.62	7.33	69.20	8,948.23	-3,701.88	9,572.15	9,555.37	16.78	570.420		
2,400.00	2,356.26	2,225.79	2,225.46	10.23	7.63	69.34	8,949.14	-3,702.04	9,561.88	9,544.21	17.67	541.238		
2,500.00	2,451.43	2,334.51	2,334.17	10.84	8.01	69.53	8,950.07	-3,702.35	9,551.54	9,532.90	18.64	512.453		
2,600.00	2,546.59	2,418.58	2,418.24	11.46	8.30	69.68	8,950.94	-3,702.46	9,541.41	9,521.88	19.53	488.496		
2,700.00	2,641.76	2,556.23	2,555.89	12.09	8.78	69.92	8,952.09	-3,702.25	9,531.07	9,510.46	20.62	462.308		
2,800.00	2,736.92	2,720.23	2,719.87	12.72	9.35	70.22	8,953.11	-3,700.77	9,520.46	9,498.66	21.80	436.818		
2,900.00	2,832.09	2,853.08	2,852.71	13.35	9.81	70.46	8,953.31	-3,698.81	9,509.28	9,486.42	22.87	415.811		
3,000.00	2,927.25	2,951.39	2,951.01	13.99	10.15	70.64	8,952.88	-3,698.24	9,497.97	9,474.14	23.83	398.612		
3,100.00	3,022.42	3,048.53	3,048.15	14.63	10.49	70.81	8,952.32	-3,698.24	9,486.81	9,462.02	24.79	382.754		
3,200.00	3,117.58	3,182.12	3,181.72	15.27	10.95	71.03	8,950.56	-3,699.76	9,475.39	9,449.52	25.87	366.250		
3,300.00	3,212.75	3,331.11	3,330.65	15.91	11.48	71.28	8,947.36	-3,702.61	9,463.52	9,436.50	27.01	350.309		
3,400.00	3,307.91	3,549.76	3,549.05	16.56	12.25	71.61	8,939.93	-3,709.68	9,451.14	9,422.74	28.40	332.743		
3,500.00	3,403.08	3,689.50	3,688.54	17.20	12.76	71.82	8,933.52	-3,715.08	9,437.87	9,408.34	29.53	319.623		
3,600.00	3,498.24	3,761.01	3,759.90	17.85	13.02	71.92	8,930.04	-3,718.05	9,424.49	9,394.07	30.42	309.796		
3,700.00	3,593.41	3,833.54	3,832.30	18.50	13.29	72.03	8,926.78	-3,721.00	9,411.47	9,380.15	31.32	300.499		
3,800.00	3,688.57	3,914.30	3,912.96	19.15	13.58	72.16	8,923.56	-3,723.52	9,398.69	9,366.44	32.25	291.477		
3,900.00	3,783.74	3,987.92	3,986.50	19.81	13.84	72.27	8,920.90	-3,725.43	9,386.17	9,353.02	33.15	283.177		
4,000.00	3,878.90	4,075.88	4,074.38	20.46	14.15	72.41	8,917.92	-3,727.63	9,373.89	9,339.79	34.10	274.925		
4,100.00	3,974.07	4,141.44	4,139.89	21.11	14.38	72.52	8,915.78	-3,729.33	9,361.82	9,326.85	34.97	267.688		
4,200.00	4,069.23	4,200.00	4,198.40	21.77	14.59	72.61	8,914.13	-3,730.83	9,350.22	9,314.40	35.83	260.980		
4,300.00	4,164.40	4,254.82	4,253.20	22.42	14.78	72.70	8,912.84	-3,732.23	9,339.10	9,302.43	36.67	254.678		
4,400.00	4,259.56	4,300.00	4,298.35	23.08	14.94	72.77	8,911.94	-3,733.39	9,328.46	9,290.98	37.48	248.883		
4,500.00	4,354.73	4,376.41	4,374.73	23.74	15.20	72.90	8,910.80	-3,735.12	9,318.22	9,279.82	38.40	242.675		
4,600.00	4,449.89	4,435.33	4,433.64	24.39	15.41	73.00	8,910.24	-3,736.18	9,308.42	9,269.16	39.26	237.118		
4,700.00	4,545.06	4,500.00	4,498.29	25.05	15.64	73.11	8,909.92	-3,737.40	9,299.11	9,258.97	40.14	231.695		
4,800.00	4,640.22	4,567.00	4,565.28	25.71	15.87	73.22	8,909.77	-3,738.81	9,290.19	9,249.17	41.02	226.465		
4,900.00	4,735.39	4,640.82	4,639.07	26.37	16.13	73.35	8,909.68	-3,740.61	9,281.55	9,239.61	41.93	221.334		
5,000.00	4,830.55	4,713.93	4,712.17	27.03	16.38	73.47	8,909.75	-3,742.53	9,273.24	9,230.40	42.85	216.437		
5,100.00	4,925.72	4,800.00	4,798.21	27.69	16.68	73.62	8,910.03	-3,744.59	9,265.16	9,221.36	43.80	211.531		
5,200.00	5,020.88	4,865.73	4,863.92	28.35	16.91	73.73	8,910.47	-3,745.91	9,257.38	9,212.69	44.69	207.161		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - GYRO													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	4,928.67	4,926.85	29.01	17.13	73.84	8,911.16	-3,746.97	9,250.00	9,204.43	45.56	203.012		
5,400.00	5,211.21	5,000.00	4,998.16	29.67	17.38	73.97	8,912.29	-3,748.03	9,243.07	9,196.60	46.47	198.902		
5,500.00	5,306.38	5,379.10	5,377.19	30.33	18.69	74.68	8,915.93	-3,745.92	9,236.12	9,187.70	48.42	190.731		
5,600.00	5,401.54	5,400.00	5,398.09	30.99	18.77	74.73	8,915.83	-3,745.37	9,226.81	9,177.64	49.17	187.658		
5,700.00	5,496.71	5,400.00	5,398.09	31.65	18.77	70.55	8,915.83	-3,745.37	9,218.41	9,168.57	49.84	184.969		
5,800.00	5,591.13	5,400.00	5,398.09	32.30	18.77	43.09	8,915.83	-3,745.37	9,200.64	9,150.18	50.46	182.329		
5,900.00	5,682.22	5,400.00	5,398.09	32.92	18.77	25.29	8,915.83	-3,745.37	9,167.62	9,116.63	50.99	179.776		
6,000.00	5,767.23	5,400.00	5,398.09	33.50	18.77	14.10	8,915.83	-3,745.37	9,120.20	9,068.78	51.42	177.362		
6,100.00	5,843.56	5,400.00	5,398.09	34.04	18.77	5.93	8,915.83	-3,745.37	9,059.60	9,007.87	51.73	175.119		
6,200.00	5,908.90	5,400.00	5,398.09	34.53	18.77	-1.53	8,915.83	-3,745.37	8,987.42	8,935.49	51.93	173.080		
6,300.00	5,961.25	5,400.00	5,398.09	34.99	18.77	-10.29	8,915.83	-3,745.37	8,905.60	8,853.61	52.00	171.269		
6,400.00	5,999.04	5,400.00	5,398.09	35.42	18.77	-23.38	8,915.83	-3,745.37	8,816.40	8,764.45	51.95	169.705		
6,500.00	6,021.11	5,400.00	5,398.09	35.83	18.77	-46.25	8,915.83	-3,745.37	8,722.35	8,670.55	51.80	168.396		
6,600.00	6,027.00	5,400.00	5,398.09	36.24	18.77	-75.02	8,915.83	-3,745.37	8,626.17	8,574.62	51.55	167.340		
6,700.00	6,027.00	5,400.00	5,398.09	36.68	18.77	-75.02	8,915.83	-3,745.37	8,529.88	8,478.61	51.27	166.370		
6,800.00	6,027.00	5,400.00	5,398.09	37.20	18.77	-75.02	8,915.83	-3,745.37	8,433.67	8,382.67	50.99	165.390		
6,900.00	6,027.00	5,400.00	5,398.09	37.80	18.77	-75.02	8,915.83	-3,745.37	8,337.55	8,286.83	50.72	164.399		
7,000.00	6,027.00	5,400.00	5,398.09	38.47	18.77	-75.02	8,915.83	-3,745.37	8,241.52	8,191.08	50.44	163.396		
7,100.00	6,027.00	5,400.00	5,398.09	39.21	18.77	-75.02	8,915.83	-3,745.37	8,145.58	8,095.42	50.16	162.379		
7,200.00	6,027.00	5,400.00	5,398.09	40.02	18.77	-75.02	8,915.83	-3,745.37	8,049.75	7,999.86	49.89	161.345		
7,300.00	6,027.00	5,400.00	5,398.09	40.89	18.77	-75.02	8,915.83	-3,745.37	7,954.02	7,904.40	49.62	160.294		
7,400.00	6,027.00	5,400.00	5,398.09	41.83	18.77	-75.02	8,915.83	-3,745.37	7,858.39	7,809.04	49.36	159.222		
7,500.00	6,027.00	5,400.00	5,398.09	42.83	18.77	-75.02	8,915.83	-3,745.37	7,762.88	7,713.79	49.09	158.127		
7,600.00	6,027.00	5,400.00	5,398.09	43.88	18.77	-75.02	8,915.83	-3,745.37	7,667.48	7,618.64	48.84	157.007		
7,700.00	6,027.00	5,400.00	5,398.09	44.99	18.77	-75.02	8,915.83	-3,745.37	7,572.19	7,523.61	48.58	155.859		
7,800.00	6,027.00	5,400.00	5,398.09	46.14	18.77	-75.02	8,915.83	-3,745.37	7,477.04	7,428.70	48.34	154.679		
7,900.00	6,027.00	5,400.00	5,398.09	47.33	18.77	-75.02	8,915.83	-3,745.37	7,382.01	7,333.90	48.10	153.464		
8,000.00	6,027.00	5,400.00	5,398.09	48.57	18.77	-75.02	8,915.83	-3,745.37	7,287.11	7,239.23	47.88	152.211		
8,100.00	6,027.00	5,400.00	5,398.09	49.84	18.77	-75.02	8,915.83	-3,745.37	7,192.35	7,144.69	47.66	150.915		
8,200.00	6,027.00	5,400.00	5,398.09	51.15	18.77	-75.02	8,915.83	-3,745.37	7,097.73	7,050.28	47.45	149.571		
8,300.00	6,027.00	5,400.00	5,398.09	52.48	18.77	-75.02	8,915.83	-3,745.37	7,003.27	6,956.00	47.26	148.177		
8,400.00	6,027.00	5,400.00	5,398.09	53.85	18.77	-75.02	8,915.83	-3,745.37	6,908.96	6,861.87	47.09	146.726		
8,500.00	6,027.00	5,400.00	5,398.09	55.24	18.77	-75.02	8,915.83	-3,745.37	6,814.81	6,767.88	46.93	145.214		
8,600.00	6,027.00	5,400.00	5,398.09	56.65	18.77	-75.02	8,915.83	-3,745.37	6,720.83	6,674.04	46.79	143.635		
8,700.00	6,027.00	5,400.00	5,398.09	58.08	18.77	-75.02	8,915.83	-3,745.37	6,627.03	6,580.35	46.67	141.985		
8,800.00	6,027.00	5,400.00	5,398.09	59.54	18.77	-75.02	8,915.83	-3,745.37	6,533.41	6,486.83	46.58	140.259		
8,900.00	6,027.00	5,400.00	5,398.09	61.01	18.77	-75.02	8,915.83	-3,745.37	6,439.98	6,393.46	46.51	138.450		
9,000.00	6,027.00	5,400.00	5,398.09	62.50	18.77	-75.02	8,915.83	-3,745.37	6,346.75	6,300.28	46.48	136.555		
9,100.00	6,027.00	5,400.00	5,398.09	64.01	18.77	-75.02	8,915.83	-3,745.37	6,253.74	6,207.26	46.47	134.569		
9,200.00	6,027.00	5,400.00	5,398.09	65.53	18.77	-75.02	8,915.83	-3,745.37	6,160.94	6,114.43	46.50	132.487		
9,300.00	6,027.00	5,400.00	5,398.09	67.06	18.77	-75.02	8,915.83	-3,745.37	6,068.37	6,021.80	46.57	130.306		
9,400.00	6,027.00	5,400.00	5,398.09	68.61	18.77	-75.02	8,915.83	-3,745.37	5,976.04	5,929.36	46.68	128.023		
9,500.00	6,027.00	5,400.00	5,398.09	70.17	18.77	-75.02	8,915.83	-3,745.37	5,883.96	5,837.12	46.83	125.637		
9,600.00	6,027.00	5,400.00	5,398.09	71.73	18.77	-75.02	8,915.83	-3,745.37	5,792.14	5,745.10	47.03	123.147		
9,700.00	6,027.00	5,400.00	5,398.09	73.31	18.77	-75.02	8,915.83	-3,745.37	5,700.60	5,653.31	47.29	120.553		
9,800.00	6,027.00	5,400.00	5,398.09	74.90	18.77	-75.02	8,915.83	-3,745.37	5,609.34	5,561.75	47.59	117.857		
9,900.00	6,027.00	5,400.00	5,398.09	76.50	18.77	-75.02	8,915.83	-3,745.37	5,518.39	5,470.43	47.96	115.064		
10,000.00	6,027.00	5,400.00	5,398.09	78.10	18.77	-75.02	8,915.83	-3,745.37	5,427.76	5,379.38	48.39	112.177		
10,100.00	6,027.00	5,400.00	5,398.09	79.71	18.77	-75.02	8,915.83	-3,745.37	5,337.47	5,288.59	48.88	109.203		
10,200.00	6,027.00	5,400.00	5,398.09	81.33	18.77	-75.02	8,915.83	-3,745.37	5,247.52	5,198.09	49.44	106.149		
10,300.00	6,027.00	5,400.00	5,398.09	82.96	18.77	-75.02	8,915.83	-3,745.37	5,157.95	5,107.88	50.06	103.026		
10,400.00	6,027.00	5,400.00	5,398.09	84.59	18.77	-75.02	8,915.83	-3,745.37	5,068.76	5,017.99	50.77	99.843		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - GYRO													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,500.00	6,027.00	5,400.00	5,398.09	86.23	18.77	-75.02	8,915.83	-3,745.37	4,979.99	4,928.44	51.55	96.611		
10,600.00	6,027.00	5,400.00	5,398.09	87.87	18.77	-75.02	8,915.83	-3,745.37	4,891.65	4,839.24	52.41	93.342		
10,700.00	6,027.00	5,400.00	5,398.09	89.52	18.77	-75.02	8,915.83	-3,745.37	4,803.76	4,750.42	53.35	90.048		
10,800.00	6,027.00	5,400.00	5,398.09	91.17	18.77	-75.02	8,915.83	-3,745.37	4,716.36	4,661.99	54.37	86.743		
10,900.00	6,027.00	5,400.00	5,398.09	92.83	18.77	-75.02	8,915.83	-3,745.37	4,629.47	4,573.99	55.48	83.437		
11,000.00	6,027.00	5,400.00	5,398.09	94.49	18.77	-75.02	8,915.83	-3,745.37	4,543.12	4,486.43	56.69	80.144		
11,100.00	6,027.00	5,400.00	5,398.09	96.16	18.77	-75.02	8,915.83	-3,745.37	4,457.34	4,399.36	57.98	76.876		
11,200.00	6,027.00	5,400.00	5,398.09	97.83	18.77	-75.02	8,915.83	-3,745.37	4,372.16	4,312.79	59.37	73.643		
11,300.00	6,027.00	5,400.00	5,398.09	99.50	18.77	-75.02	8,915.83	-3,745.37	4,287.63	4,226.77	60.86	70.456		
11,400.00	6,027.00	5,400.00	5,398.09	101.18	18.77	-75.02	8,915.83	-3,745.37	4,203.77	4,141.33	62.44	67.325		
11,500.00	6,027.00	5,400.00	5,398.09	102.86	18.77	-75.02	8,915.83	-3,745.37	4,120.63	4,056.50	64.13	64.257		
11,600.00	6,027.00	5,400.00	5,398.09	104.54	18.77	-75.02	8,915.83	-3,745.37	4,038.26	3,972.34	65.92	61.262		
11,700.00	6,027.00	5,400.00	5,398.09	106.23	18.77	-75.02	8,915.83	-3,745.37	3,956.70	3,888.88	67.82	58.345		
11,800.00	6,027.00	5,400.00	5,398.09	107.92	18.77	-75.02	8,915.83	-3,745.37	3,876.00	3,806.18	69.82	55.512		
11,900.00	6,027.00	5,400.00	5,398.09	109.61	18.77	-75.02	8,915.83	-3,745.37	3,796.23	3,724.29	71.94	52.768		
12,000.00	6,027.00	5,400.00	5,398.09	111.31	18.77	-75.02	8,915.83	-3,745.37	3,717.43	3,643.25	74.18	50.117		
12,100.00	6,027.00	5,400.00	5,398.09	113.00	18.77	-75.02	8,915.83	-3,745.37	3,639.67	3,563.15	76.52	47.562		
12,200.00	6,027.00	5,400.00	5,398.09	114.71	18.77	-75.02	8,915.83	-3,745.37	3,563.02	3,484.03	78.99	45.105		
12,300.00	6,027.00	5,400.00	5,398.09	116.41	18.77	-75.02	8,915.83	-3,745.37	3,487.56	3,405.98	81.58	42.748		
12,400.00	6,027.00	5,400.00	5,398.09	118.11	18.77	-75.02	8,915.83	-3,745.37	3,413.36	3,329.06	84.30	40.493		
12,500.00	6,027.00	5,400.00	5,398.09	119.82	18.77	-75.02	8,915.83	-3,745.37	3,340.50	3,253.37	87.13	38.338		
12,600.00	6,027.00	5,400.00	5,398.09	121.53	18.77	-75.02	8,915.83	-3,745.37	3,269.08	3,178.98	90.09	36.285		
12,700.00	6,027.00	5,400.00	5,398.09	123.24	18.77	-75.02	8,915.83	-3,745.37	3,199.19	3,106.01	93.18	34.333		
12,800.00	6,027.00	5,400.00	5,398.09	124.95	18.77	-75.02	8,915.83	-3,745.37	3,130.93	3,034.54	96.39	32.481		
12,900.00	6,027.00	5,400.00	5,398.09	126.66	18.77	-75.02	8,915.83	-3,745.37	3,064.42	2,964.69	99.73	30.727		
13,000.00	6,027.00	5,400.00	5,398.09	128.38	18.77	-75.02	8,915.83	-3,745.37	2,999.77	2,896.58	103.19	29.071		
13,100.00	6,027.00	5,400.00	5,398.09	130.10	18.77	-75.02	8,915.83	-3,745.37	2,937.10	2,830.33	106.76	27.510		
13,200.00	6,027.00	5,400.00	5,398.09	131.82	18.77	-75.02	8,915.83	-3,745.37	2,876.54	2,766.09	110.45	26.043		
13,300.00	6,027.00	5,400.00	5,398.09	133.54	18.77	-75.02	8,915.83	-3,745.37	2,818.23	2,703.98	114.25	24.668		
13,400.00	6,027.00	5,400.00	5,398.09	135.26	18.77	-75.02	8,915.83	-3,745.37	2,762.31	2,644.17	118.14	23.383		
13,500.00	6,027.00	5,400.00	5,398.09	136.98	18.77	-75.02	8,915.83	-3,745.37	2,708.93	2,586.81	122.11	22.184		
13,600.00	6,027.00	5,400.00	5,398.09	138.71	18.77	-75.02	8,915.83	-3,745.37	2,658.23	2,532.08	126.16	21.071		
13,700.00	6,027.00	5,400.00	5,398.09	140.43	18.77	-75.02	8,915.83	-3,745.37	2,610.39	2,480.13	130.26	20.040		
13,800.00	6,027.00	5,400.00	5,398.09	142.16	18.77	-75.02	8,915.83	-3,745.37	2,565.56	2,431.15	134.40	19.089		
13,900.00	6,027.00	5,400.00	5,398.09	143.89	18.77	-75.02	8,915.83	-3,745.37	2,523.89	2,385.33	138.56	18.215		
14,000.00	6,027.00	5,400.00	5,398.09	145.62	18.77	-75.02	8,915.83	-3,745.37	2,485.55	2,342.84	142.71	17.417		
14,100.00	6,027.00	5,400.00	5,398.09	147.35	18.77	-75.02	8,915.83	-3,745.37	2,450.69	2,303.87	146.82	16.692		
14,200.00	6,027.00	5,400.00	5,398.09	149.08	18.77	-75.02	8,915.83	-3,745.37	2,419.47	2,268.60	150.87	16.037		
14,300.00	6,027.00	5,400.00	5,398.09	150.81	18.77	-75.02	8,915.83	-3,745.37	2,392.02	2,237.19	154.83	15.450		
14,400.00	6,027.00	5,400.00	5,398.09	152.54	18.77	-75.02	8,915.83	-3,745.37	2,368.48	2,209.81	158.66	14.928		
14,500.00	6,027.00	5,400.00	5,398.09	154.28	18.77	-75.02	8,915.83	-3,745.37	2,348.96	2,186.62	162.34	14.469		
14,600.00	6,027.00	5,400.00	5,398.09	156.01	18.77	-75.02	8,915.83	-3,745.37	2,333.57	2,167.73	165.84	14.071		
14,700.00	6,027.00	5,400.00	5,398.09	157.75	18.77	-75.02	8,915.83	-3,745.37	2,322.39	2,153.26	169.13	13.732		
14,800.00	6,027.00	5,400.00	5,398.09	159.49	18.77	-75.02	8,915.83	-3,745.37	2,315.47	2,143.30	172.17	13.448		
14,900.00	6,027.00	5,400.00	5,398.09	161.22	18.77	-75.02	8,915.83	-3,745.37	2,312.87	2,137.90	174.96	13.219		
14,910.33	6,027.00	5,400.00	5,398.09	161.40	18.77	-75.02	8,915.83	-3,745.37	2,312.84	2,137.61	175.24	13.198 CC		
15,000.00	6,027.00	5,400.00	5,398.09	162.96	18.77	-75.02	8,915.83	-3,745.37	2,314.58	2,137.10	177.48	13.042 ES		
15,100.00	6,027.00	5,400.00	5,398.09	164.70	18.77	-75.02	8,915.83	-3,745.37	2,320.61	2,140.91	179.70	12.914		
15,200.00	6,027.00	5,400.00	5,398.09	166.44	18.77	-75.02	8,915.83	-3,745.37	2,330.91	2,149.29	181.62	12.834		
15,300.00	6,027.00	5,400.00	5,398.09	168.18	18.77	-75.02	8,915.83	-3,745.37	2,345.44	2,162.20	183.24	12.800 SF		
15,400.00	6,027.00	5,400.00	5,398.09	169.93	18.77	-75.02	8,915.83	-3,745.37	2,364.11	2,179.55	184.56	12.809		
15,500.00	6,027.00	5,400.00	5,398.09	171.67	18.77	-75.02	8,915.83	-3,745.37	2,386.83	2,201.24	185.59	12.861		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - GYRO												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-GYRO-MWD												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	5,400.00	5,398.09	173.41	18.77	-75.02	8,915.83	-3,745.37	2,413.48	2,227.15	186.33	12.953	
15,700.00	6,027.00	5,400.00	5,398.09	175.15	18.77	-75.02	8,915.83	-3,745.37	2,443.93	2,257.13	186.81	13.083	
15,800.00	6,027.00	5,400.00	5,398.09	176.90	18.77	-75.02	8,915.83	-3,745.37	2,478.05	2,291.02	187.03	13.249	
15,900.00	6,027.00	5,400.00	5,398.09	178.64	18.77	-75.02	8,915.83	-3,745.37	2,515.69	2,328.66	187.02	13.451	
16,000.00	6,027.00	5,400.00	5,398.09	180.39	18.77	-75.02	8,915.83	-3,745.37	2,556.68	2,369.88	186.80	13.686	
16,100.00	6,027.00	5,400.00	5,398.09	182.13	18.77	-75.02	8,915.83	-3,745.37	2,600.87	2,414.48	186.39	13.954	
16,200.00	6,027.00	5,400.00	5,398.09	183.88	18.77	-75.02	8,915.83	-3,745.37	2,648.11	2,462.30	185.81	14.252	
16,300.00	6,027.00	5,400.00	5,398.09	185.63	18.77	-75.02	8,915.83	-3,745.37	2,698.22	2,513.15	185.08	14.579	
16,400.00	6,027.00	5,400.00	5,398.09	187.38	18.77	-75.02	8,915.83	-3,745.37	2,751.06	2,566.85	184.21	14.934	
16,500.00	6,027.00	5,400.00	5,398.09	189.12	18.77	-75.02	8,915.83	-3,745.37	2,806.47	2,623.23	183.24	15.316	
16,600.00	6,027.00	5,400.00	5,398.09	190.87	18.77	-75.02	8,915.83	-3,745.37	2,864.30	2,682.13	182.17	15.723	
16,700.00	6,027.00	5,400.00	5,398.09	192.62	18.77	-75.02	8,915.83	-3,745.37	2,924.41	2,743.39	181.02	16.155	
16,795.97	6,027.00	5,400.00	5,398.09	194.30	18.77	-75.02	8,915.83	-3,745.37	2,984.10	2,804.24	179.86	16.591	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 41-6 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,200.00	6,027.00	5,967.00	5,967.00	51.15	119.62	-90.00	10,274.79	-7,569.02	10,090.63	9,944.26	146.37	68.938		
8,300.00	6,027.00	5,967.00	5,967.00	52.48	119.62	-90.00	10,274.79	-7,569.02	10,010.84	9,864.15	146.69	68.246		
8,400.00	6,027.00	5,967.00	5,967.00	53.85	119.62	-90.00	10,274.79	-7,569.02	9,931.41	9,784.34	147.07	67.529		
8,500.00	6,027.00	5,967.00	5,967.00	55.24	119.62	-90.00	10,274.79	-7,569.02	9,852.35	9,704.83	147.52	66.787		
8,600.00	6,027.00	5,967.00	5,967.00	56.65	119.62	-90.00	10,274.79	-7,569.02	9,773.68	9,625.64	148.04	66.021		
8,700.00	6,027.00	5,967.00	5,967.00	58.08	119.62	-90.00	10,274.79	-7,569.02	9,695.40	9,546.77	148.63	65.233		
8,800.00	6,027.00	5,967.00	5,967.00	59.54	119.62	-90.00	10,274.79	-7,569.02	9,617.52	9,468.24	149.28	64.425		
8,900.00	6,027.00	5,967.00	5,967.00	61.01	119.62	-90.00	10,274.79	-7,569.02	9,540.06	9,390.05	150.01	63.598		
9,000.00	6,027.00	5,967.00	5,967.00	62.50	119.62	-90.00	10,274.79	-7,569.02	9,463.02	9,312.22	150.79	62.755		
9,100.00	6,027.00	5,967.00	5,967.00	64.01	119.62	-90.00	10,274.79	-7,569.02	9,386.41	9,234.76	151.65	61.897		
9,200.00	6,027.00	5,967.00	5,967.00	65.53	119.62	-90.00	10,274.79	-7,569.02	9,310.25	9,157.69	152.56	61.027		
9,300.00	6,027.00	5,967.00	5,967.00	67.06	119.62	-90.00	10,274.79	-7,569.02	9,234.54	9,081.00	153.54	60.146		
9,400.00	6,027.00	5,967.00	5,967.00	68.61	119.62	-90.00	10,274.79	-7,569.02	9,159.29	9,004.72	154.57	59.256		
9,500.00	6,027.00	5,967.00	5,967.00	70.17	119.62	-90.00	10,274.79	-7,569.02	9,084.53	8,928.86	155.66	58.360		
9,600.00	6,027.00	5,967.00	5,967.00	71.73	119.62	-90.00	10,274.79	-7,569.02	9,010.25	8,853.44	156.81	57.459		
9,700.00	6,027.00	5,967.00	5,967.00	73.31	119.62	-90.00	10,274.79	-7,569.02	8,936.47	8,778.46	158.02	56.554		
9,800.00	6,027.00	5,967.00	5,967.00	74.90	119.62	-90.00	10,274.79	-7,569.02	8,863.21	8,703.94	159.27	55.648		
9,900.00	6,027.00	5,967.00	5,967.00	76.50	119.62	-90.00	10,274.79	-7,569.02	8,790.48	8,629.90	160.58	54.742		
10,000.00	6,027.00	5,967.00	5,967.00	78.10	119.62	-90.00	10,274.79	-7,569.02	8,718.29	8,556.35	161.94	53.837		
10,100.00	6,027.00	5,967.00	5,967.00	79.71	119.62	-90.00	10,274.79	-7,569.02	8,646.65	8,483.30	163.35	52.934		
10,200.00	6,027.00	5,967.00	5,967.00	81.33	119.62	-90.00	10,274.79	-7,569.02	8,575.57	8,410.77	164.80	52.035		
10,300.00	6,027.00	5,967.00	5,967.00	82.96	119.62	-90.00	10,274.79	-7,569.02	8,505.08	8,338.78	166.31	51.141		
10,400.00	6,027.00	5,967.00	5,967.00	84.59	119.62	-90.00	10,274.79	-7,569.02	8,435.19	8,267.34	167.85	50.253		
10,500.00	6,027.00	5,967.00	5,967.00	86.23	119.62	-90.00	10,274.79	-7,569.02	8,365.91	8,196.46	169.45	49.372		
10,600.00	6,027.00	5,967.00	5,967.00	87.87	119.62	-90.00	10,274.79	-7,569.02	8,297.25	8,126.17	171.08	48.499		
10,700.00	6,027.00	5,967.00	5,967.00	89.52	119.62	-90.00	10,274.79	-7,569.02	8,229.24	8,056.48	172.76	47.634		
10,800.00	6,027.00	5,967.00	5,967.00	91.17	119.62	-90.00	10,274.79	-7,569.02	8,161.88	7,987.40	174.48	46.778		
10,900.00	6,027.00	5,967.00	5,967.00	92.83	119.62	-90.00	10,274.79	-7,569.02	8,095.20	7,918.96	176.24	45.932		
11,000.00	6,027.00	5,967.00	5,967.00	94.49	119.62	-90.00	10,274.79	-7,569.02	8,029.22	7,851.17	178.05	45.096		
11,100.00	6,027.00	5,967.00	5,967.00	96.16	119.62	-90.00	10,274.79	-7,569.02	7,963.94	7,784.05	179.89	44.271		
11,200.00	6,027.00	5,967.00	5,967.00	97.83	119.62	-90.00	10,274.79	-7,569.02	7,899.38	7,717.61	181.77	43.457		
11,300.00	6,027.00	5,967.00	5,967.00	99.50	119.62	-90.00	10,274.79	-7,569.02	7,835.58	7,651.88	183.69	42.656		
11,400.00	6,027.00	5,967.00	5,967.00	101.18	119.62	-90.00	10,274.79	-7,569.02	7,772.53	7,586.88	185.65	41.866		
11,500.00	6,027.00	5,967.00	5,967.00	102.86	119.62	-90.00	10,274.79	-7,569.02	7,710.27	7,522.62	187.65	41.089		
11,600.00	6,027.00	5,967.00	5,967.00	104.54	119.62	-90.00	10,274.79	-7,569.02	7,648.80	7,459.12	189.68	40.325		
11,700.00	6,027.00	5,967.00	5,967.00	106.23	119.62	-90.00	10,274.79	-7,569.02	7,588.16	7,396.41	191.75	39.573		
11,800.00	6,027.00	5,967.00	5,967.00	107.92	119.62	-90.00	10,274.79	-7,569.02	7,528.36	7,334.50	193.85	38.835		
11,900.00	6,027.00	5,967.00	5,967.00	109.61	119.62	-90.00	10,274.79	-7,569.02	7,469.41	7,273.42	195.99	38.111		
12,000.00	6,027.00	5,967.00	5,967.00	111.31	119.62	-90.00	10,274.79	-7,569.02	7,411.35	7,213.19	198.16	37.400		
12,100.00	6,027.00	5,967.00	5,967.00	113.00	119.62	-90.00	10,274.79	-7,569.02	7,354.19	7,153.82	200.37	36.703		
12,200.00	6,027.00	5,967.00	5,967.00	114.71	119.62	-90.00	10,274.79	-7,569.02	7,297.95	7,095.34	202.61	36.020		
12,300.00	6,027.00	5,967.00	5,967.00	116.41	119.62	-90.00	10,274.79	-7,569.02	7,242.66	7,037.78	204.88	35.352		
12,400.00	6,027.00	5,967.00	5,967.00	118.11	119.62	-90.00	10,274.79	-7,569.02	7,188.33	6,981.15	207.18	34.697		
12,500.00	6,027.00	5,967.00	5,967.00	119.82	119.62	-90.00	10,274.79	-7,569.02	7,134.99	6,925.48	209.50	34.056		
12,600.00	6,027.00	5,967.00	5,967.00	121.53	119.62	-90.00	10,274.79	-7,569.02	7,082.65	6,870.79	211.86	33.430		
12,700.00	6,027.00	5,967.00	5,967.00	123.24	119.62	-90.00	10,274.79	-7,569.02	7,031.36	6,817.11	214.25	32.819		
12,800.00	6,027.00	5,967.00	5,967.00	124.95	119.62	-90.00	10,274.79	-7,569.02	6,981.11	6,764.45	216.66	32.221		
12,900.00	6,027.00	5,967.00	5,967.00	126.66	119.62	-90.00	10,274.79	-7,569.02	6,931.95	6,712.85	219.10	31.638		
13,000.00	6,027.00	5,967.00	5,967.00	128.38	119.62	-90.00	10,274.79	-7,569.02	6,883.89	6,662.33	221.56	31.070		
13,100.00	6,027.00	5,967.00	5,967.00	130.10	119.62	-90.00	10,274.79	-7,569.02	6,836.95	6,612.90	224.05	30.516		
13,200.00	6,027.00	5,967.00	5,967.00	131.82	119.62	-90.00	10,274.79	-7,569.02	6,791.16	6,564.61	226.55	29.976		
13,300.00	6,027.00	5,967.00	5,967.00	133.54	119.62	-90.00	10,274.79	-7,569.02	6,746.54	6,517.46	229.08	29.451		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,400.00	6,027.00	5,967.00	5,967.00	135.26	119.62	-90.00	10,274.79	-7,569.02	6,703.12	6,471.50	231.62	28.940	
13,500.00	6,027.00	5,967.00	5,967.00	136.98	119.62	-90.00	10,274.79	-7,569.02	6,660.92	6,426.73	234.19	28.443	
13,600.00	6,027.00	5,967.00	5,967.00	138.71	119.62	-90.00	10,274.79	-7,569.02	6,619.95	6,383.19	236.76	27.960	
13,700.00	6,027.00	5,967.00	5,967.00	140.43	119.62	-90.00	10,274.79	-7,569.02	6,580.26	6,340.90	239.35	27.492	
13,800.00	6,027.00	5,967.00	5,967.00	142.16	119.62	-90.00	10,274.79	-7,569.02	6,541.85	6,299.89	241.96	27.037	
13,900.00	6,027.00	5,967.00	5,967.00	143.89	119.62	-90.00	10,274.79	-7,569.02	6,504.75	6,260.18	244.57	26.597	
14,000.00	6,027.00	5,967.00	5,967.00	145.62	119.62	-90.00	10,274.79	-7,569.02	6,468.98	6,221.80	247.19	26.171	
14,100.00	6,027.00	5,967.00	5,967.00	147.35	119.62	-90.00	10,274.79	-7,569.02	6,434.57	6,184.76	249.81	25.758	
14,200.00	6,027.00	5,967.00	5,967.00	149.08	119.62	-90.00	10,274.79	-7,569.02	6,401.54	6,149.10	252.44	25.359	
14,300.00	6,027.00	5,967.00	5,967.00	150.81	119.62	-90.00	10,274.79	-7,569.02	6,369.90	6,114.84	255.06	24.974	
14,400.00	6,027.00	5,967.00	5,967.00	152.54	119.62	-90.00	10,274.79	-7,569.02	6,339.69	6,082.00	257.69	24.602	
14,500.00	6,027.00	5,967.00	5,967.00	154.28	119.62	-90.00	10,274.79	-7,569.02	6,310.91	6,050.60	260.31	24.244	
14,600.00	6,027.00	5,967.00	5,967.00	156.01	119.62	-90.00	10,274.79	-7,569.02	6,283.60	6,020.67	262.93	23.898	
14,700.00	6,027.00	5,967.00	5,967.00	157.75	119.62	-90.00	10,274.79	-7,569.02	6,257.76	5,992.22	265.54	23.566	
14,800.00	6,027.00	5,967.00	5,967.00	159.49	119.62	-90.00	10,274.79	-7,569.02	6,233.42	5,965.29	268.13	23.247	
14,900.00	6,027.00	5,967.00	5,967.00	161.22	119.62	-90.00	10,274.79	-7,569.02	6,210.60	5,939.88	270.72	22.941	
15,000.00	6,027.00	5,967.00	5,967.00	162.96	119.62	-90.00	10,274.79	-7,569.02	6,189.31	5,916.02	273.28	22.648	
15,100.00	6,027.00	5,967.00	5,967.00	164.70	119.62	-90.00	10,274.79	-7,569.02	6,169.56	5,893.73	275.83	22.367	
15,200.00	6,027.00	5,967.00	5,967.00	166.44	119.62	-90.00	10,274.79	-7,569.02	6,151.38	5,873.02	278.36	22.099	
15,300.00	6,027.00	5,967.00	5,967.00	168.18	119.62	-90.00	10,274.79	-7,569.02	6,134.77	5,853.91	280.86	21.843	
15,400.00	6,027.00	5,967.00	5,967.00	169.93	119.62	-90.00	10,274.79	-7,569.02	6,119.76	5,836.42	283.34	21.599	
15,500.00	6,027.00	5,967.00	5,967.00	171.67	119.62	-90.00	10,274.79	-7,569.02	6,106.34	5,820.56	285.78	21.367	
15,600.00	6,027.00	5,967.00	5,967.00	173.41	119.62	-90.00	10,274.79	-7,569.02	6,094.54	5,806.34	288.20	21.147	
15,700.00	6,027.00	5,967.00	5,967.00	175.15	119.62	-90.00	10,274.79	-7,569.02	6,084.36	5,793.78	290.58	20.939	
15,800.00	6,027.00	5,967.00	5,967.00	176.90	119.62	-90.00	10,274.79	-7,569.02	6,075.80	5,782.88	292.92	20.742	
15,900.00	6,027.00	5,967.00	5,967.00	178.64	119.62	-90.00	10,274.79	-7,569.02	6,068.88	5,773.65	295.23	20.557	
16,000.00	6,027.00	5,967.00	5,967.00	180.39	119.62	-90.00	10,274.79	-7,569.02	6,063.61	5,766.11	297.49	20.382	
16,100.00	6,027.00	5,967.00	5,967.00	182.13	119.62	-90.00	10,274.79	-7,569.02	6,059.97	5,760.26	299.72	20.219	
16,200.00	6,027.00	5,967.00	5,967.00	183.88	119.62	-90.00	10,274.79	-7,569.02	6,057.99	5,756.10	301.89	20.067	
16,270.10	6,027.00	5,967.00	5,967.00	185.11	119.62	-90.00	10,274.79	-7,569.02	6,057.59	5,754.20	303.39	19.966 CC	
16,300.00	6,027.00	5,967.00	5,967.00	185.63	119.62	-90.00	10,274.79	-7,569.02	6,057.66	5,753.64	304.02	19.925	
16,400.00	6,027.00	5,967.00	5,967.00	187.38	119.62	-90.00	10,274.79	-7,569.02	6,058.98	5,752.87	306.11	19.794 ES	
16,500.00	6,027.00	5,967.00	5,967.00	189.12	119.62	-90.00	10,274.79	-7,569.02	6,061.95	5,753.81	308.14	19.673	
16,600.00	6,027.00	5,967.00	5,967.00	190.87	119.62	-90.00	10,274.79	-7,569.02	6,066.56	5,756.45	310.12	19.562	
16,700.00	6,027.00	5,967.00	5,967.00	192.62	119.62	-90.00	10,274.79	-7,569.02	6,072.82	5,760.78	312.04	19.462	
16,795.97	6,027.00	5,967.00	5,967.00	194.30	119.62	-90.00	10,274.79	-7,569.02	6,080.37	5,766.53	313.84	19.374 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 146-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,500.00	6,027.00	10,624.00	6,231.41	42.83	121.87	102.42	11,564.46	-864.98	10,080.13	9,922.44	157.69	63.924		
7,600.00	6,027.00	10,624.00	6,231.41	43.88	121.87	102.42	11,564.46	-864.98	9,980.35	9,822.57	157.78	63.256		
7,700.00	6,027.00	10,624.00	6,231.41	44.99	121.87	102.42	11,564.46	-864.98	9,880.57	9,722.70	157.87	62.587		
7,800.00	6,027.00	10,624.00	6,231.41	46.14	121.87	102.42	11,564.46	-864.98	9,780.80	9,622.84	157.96	61.918		
7,900.00	6,027.00	10,624.00	6,231.41	47.33	121.87	102.42	11,564.46	-864.98	9,681.03	9,522.97	158.06	61.249		
8,000.00	6,027.00	10,624.00	6,231.41	48.57	121.87	102.42	11,564.46	-864.98	9,581.27	9,423.11	158.16	60.579		
8,100.00	6,027.00	10,624.00	6,231.41	49.84	121.87	102.42	11,564.46	-864.98	9,481.51	9,323.25	158.26	59.910		
8,200.00	6,027.00	10,624.00	6,231.41	51.15	121.87	102.42	11,564.46	-864.98	9,381.76	9,223.39	158.37	59.240		
8,300.00	6,027.00	10,624.00	6,231.41	52.48	121.87	102.42	11,564.46	-864.98	9,282.01	9,123.54	158.47	58.571		
8,400.00	6,027.00	10,624.00	6,231.41	53.85	121.87	102.42	11,564.46	-864.98	9,182.27	9,023.68	158.59	57.901		
8,500.00	6,027.00	10,624.00	6,231.41	55.24	121.87	102.42	11,564.46	-864.98	9,082.53	8,923.83	158.70	57.231		
8,600.00	6,027.00	10,624.00	6,231.41	56.65	121.87	102.42	11,564.46	-864.98	8,982.80	8,823.99	158.81	56.562		
8,700.00	6,027.00	10,624.00	6,231.41	58.08	121.87	102.42	11,564.46	-864.98	8,883.08	8,724.14	158.93	55.892		
8,800.00	6,027.00	10,624.00	6,231.41	59.54	121.87	102.42	11,564.46	-864.98	8,783.36	8,624.30	159.06	55.222		
8,900.00	6,027.00	10,624.00	6,231.41	61.01	121.87	102.42	11,564.46	-864.98	8,683.64	8,524.46	159.18	54.552		
9,000.00	6,027.00	10,624.00	6,231.41	62.50	121.87	102.42	11,564.46	-864.98	8,583.94	8,424.63	159.31	53.882		
9,100.00	6,027.00	10,624.00	6,231.41	64.01	121.87	102.42	11,564.46	-864.98	8,484.24	8,324.80	159.44	53.212		
9,200.00	6,027.00	10,624.00	6,231.41	65.53	121.87	102.42	11,564.46	-864.98	8,384.55	8,224.97	159.58	52.542		
9,300.00	6,027.00	10,624.00	6,231.41	67.06	121.87	102.42	11,564.46	-864.98	8,284.87	8,125.15	159.72	51.872		
9,400.00	6,027.00	10,624.00	6,231.41	68.61	121.87	102.42	11,564.46	-864.98	8,185.19	8,025.33	159.86	51.202		
9,500.00	6,027.00	10,624.00	6,231.41	70.17	121.87	102.42	11,564.46	-864.98	8,085.52	7,925.51	160.01	50.532		
9,600.00	6,027.00	10,624.00	6,231.41	71.73	121.87	102.42	11,564.46	-864.98	7,985.86	7,825.70	160.16	49.862		
9,700.00	6,027.00	10,624.00	6,231.41	73.31	121.87	102.42	11,564.46	-864.98	7,886.21	7,725.90	160.31	49.193		
9,800.00	6,027.00	10,624.00	6,231.41	74.90	121.87	102.42	11,564.46	-864.98	7,786.57	7,626.10	160.47	48.523		
9,900.00	6,027.00	10,624.00	6,231.41	76.50	121.87	102.42	11,564.46	-864.98	7,686.94	7,526.30	160.64	47.853		
10,000.00	6,027.00	10,624.00	6,231.41	78.10	121.87	102.42	11,564.46	-864.98	7,587.31	7,426.51	160.80	47.184		
10,100.00	6,027.00	10,624.00	6,231.41	79.71	121.87	102.42	11,564.46	-864.98	7,487.70	7,326.72	160.98	46.514		
10,200.00	6,027.00	10,624.00	6,231.41	81.33	121.87	102.42	11,564.46	-864.98	7,388.10	7,226.94	161.15	45.845		
10,300.00	6,027.00	10,624.00	6,231.41	82.96	121.87	102.42	11,564.46	-864.98	7,288.50	7,127.17	161.34	45.175		
10,400.00	6,027.00	10,624.00	6,231.41	84.59	121.87	102.42	11,564.46	-864.98	7,188.92	7,027.40	161.53	44.506		
10,500.00	6,027.00	10,624.00	6,231.41	86.23	121.87	102.42	11,564.46	-864.98	7,089.35	6,927.63	161.72	43.837		
10,600.00	6,027.00	10,624.00	6,231.41	87.87	121.87	102.42	11,564.46	-864.98	6,989.80	6,827.88	161.92	43.168		
10,700.00	6,027.00	10,624.00	6,231.41	89.52	121.87	102.42	11,564.46	-864.98	6,890.25	6,728.13	162.13	42.500		
10,800.00	6,027.00	10,624.00	6,231.41	91.17	121.87	102.42	11,564.46	-864.98	6,790.72	6,628.39	162.34	41.831		
10,900.00	6,027.00	10,624.00	6,231.41	92.83	121.87	102.42	11,564.46	-864.98	6,691.21	6,528.65	162.55	41.163		
11,000.00	6,027.00	10,624.00	6,231.41	94.49	121.87	102.42	11,564.46	-864.98	6,591.71	6,428.93	162.78	40.495		
11,100.00	6,027.00	10,624.00	6,231.41	96.16	121.87	102.42	11,564.46	-864.98	6,492.22	6,329.21	163.01	39.827		
11,200.00	6,027.00	10,624.00	6,231.41	97.83	121.87	102.42	11,564.46	-864.98	6,392.75	6,229.50	163.25	39.159		
11,300.00	6,027.00	10,624.00	6,231.41	99.50	121.87	102.42	11,564.46	-864.98	6,293.30	6,129.80	163.50	38.492		
11,400.00	6,027.00	10,624.00	6,231.41	101.18	121.87	102.42	11,564.46	-864.98	6,193.86	6,030.11	163.75	37.824		
11,500.00	6,027.00	10,624.00	6,231.41	102.86	121.87	102.42	11,564.46	-864.98	6,094.44	5,930.43	164.02	37.158		
11,600.00	6,027.00	10,624.00	6,231.41	104.54	121.87	102.42	11,564.46	-864.98	5,995.04	5,830.76	164.29	36.491		
11,700.00	6,027.00	10,624.00	6,231.41	106.23	121.87	102.42	11,564.46	-864.98	5,895.67	5,731.10	164.57	35.825		
11,800.00	6,027.00	10,624.00	6,231.41	107.92	121.87	102.42	11,564.46	-864.98	5,796.31	5,631.45	164.86	35.159		
11,900.00	6,027.00	10,624.00	6,231.41	109.61	121.87	102.42	11,564.46	-864.98	5,696.98	5,531.81	165.16	34.493		
12,000.00	6,027.00	10,624.00	6,231.41	111.31	121.87	102.42	11,564.46	-864.98	5,597.67	5,432.19	165.47	33.828		
12,100.00	6,027.00	10,624.00	6,231.41	113.00	121.87	102.42	11,564.46	-864.98	5,498.38	5,332.58	165.80	33.163		
12,200.00	6,027.00	10,624.00	6,231.41	114.71	121.87	102.42	11,564.46	-864.98	5,399.12	5,232.99	166.13	32.499		
12,300.00	6,027.00	10,624.00	6,231.41	116.41	121.87	102.42	11,564.46	-864.98	5,299.89	5,133.41	166.48	31.835		
12,400.00	6,027.00	10,624.00	6,231.41	118.11	121.87	102.42	11,564.46	-864.98	5,200.69	5,033.85	166.84	31.171		
12,500.00	6,027.00	10,624.00	6,231.41	119.82	121.87	102.42	11,564.46	-864.98	5,101.52	4,934.30	167.22	30.508		
12,600.00	6,027.00	10,624.00	6,231.41	121.53	121.87	102.42	11,564.46	-864.98	5,002.38	4,834.78	167.61	29.846		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 146-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,700.00	6,027.00	10,624.00	6,231.41	123.24	121.87	102.42	11,564.46	-864.98	4,903.28	4,735.27	168.01	29.184		
12,800.00	6,027.00	10,624.00	6,231.41	124.95	121.87	102.42	11,564.46	-864.98	4,804.22	4,635.78	168.44	28.523		
12,900.00	6,027.00	10,624.00	6,231.41	126.66	121.87	102.42	11,564.46	-864.98	4,705.19	4,536.32	168.88	27.862		
13,000.00	6,027.00	10,624.00	6,231.41	128.38	121.87	102.42	11,564.46	-864.98	4,606.21	4,436.87	169.33	27.202		
13,100.00	6,027.00	10,624.00	6,231.41	130.10	121.87	102.42	11,564.46	-864.98	4,507.27	4,337.46	169.81	26.543		
13,200.00	6,027.00	10,624.00	6,231.41	131.82	121.87	102.42	11,564.46	-864.98	4,408.38	4,238.07	170.31	25.884		
13,300.00	6,027.00	10,624.00	6,231.41	133.54	121.87	102.42	11,564.46	-864.98	4,309.54	4,138.71	170.84	25.226		
13,400.00	6,027.00	10,624.00	6,231.41	135.26	121.87	102.42	11,564.46	-864.98	4,210.76	4,039.37	171.38	24.569		
13,500.00	6,027.00	10,624.00	6,231.41	136.98	121.87	102.42	11,564.46	-864.98	4,112.03	3,940.08	171.96	23.913		
13,600.00	6,027.00	10,624.00	6,231.41	138.71	121.87	102.42	11,564.46	-864.98	4,013.37	3,840.81	172.56	23.258		
13,700.00	6,027.00	10,624.00	6,231.41	140.43	121.87	102.42	11,564.46	-864.98	3,914.77	3,741.59	173.19	22.604		
13,800.00	6,027.00	10,624.00	6,231.41	142.16	121.87	102.42	11,564.46	-864.98	3,816.25	3,642.40	173.85	21.952		
13,900.00	6,027.00	10,624.00	6,231.41	143.89	121.87	102.42	11,564.46	-864.98	3,717.81	3,543.27	174.54	21.300		
14,000.00	6,027.00	10,624.00	6,231.41	145.62	121.87	102.42	11,564.46	-864.98	3,619.45	3,444.18	175.28	20.650		
14,100.00	6,027.00	10,624.00	6,231.41	147.35	121.87	102.42	11,564.46	-864.98	3,521.19	3,345.14	176.05	20.001		
14,200.00	6,027.00	10,624.00	6,231.41	149.08	121.87	102.42	11,564.46	-864.98	3,423.02	3,246.16	176.87	19.354		
14,300.00	6,027.00	10,624.00	6,231.41	150.81	121.87	102.42	11,564.46	-864.98	3,324.97	3,147.24	177.73	18.708		
14,400.00	6,027.00	10,624.00	6,231.41	152.54	121.87	102.42	11,564.46	-864.98	3,227.04	3,048.39	178.64	18.064		
14,500.00	6,027.00	10,624.00	6,231.41	154.28	121.87	102.42	11,564.46	-864.98	3,129.23	2,949.62	179.61	17.422		
14,600.00	6,027.00	10,624.00	6,231.41	156.01	121.87	102.42	11,564.46	-864.98	3,031.57	2,850.93	180.64	16.783		
14,700.00	6,027.00	10,624.00	6,231.41	157.75	121.87	102.42	11,564.46	-864.98	2,934.07	2,752.34	181.73	16.145		
14,800.00	6,027.00	10,624.00	6,231.41	159.49	121.87	102.42	11,564.46	-864.98	2,836.74	2,653.85	182.89	15.511		
14,900.00	6,027.00	10,624.00	6,231.41	161.22	121.87	102.42	11,564.46	-864.98	2,739.60	2,555.47	184.13	14.879		
15,000.00	6,027.00	10,624.00	6,231.41	162.96	121.87	102.42	11,564.46	-864.98	2,642.67	2,457.22	185.45	14.250		
15,100.00	6,027.00	10,624.00	6,231.41	164.70	121.87	102.42	11,564.46	-864.98	2,545.99	2,359.12	186.87	13.625		
15,200.00	6,027.00	10,624.00	6,231.41	166.44	121.87	102.42	11,564.46	-864.98	2,449.57	2,261.19	188.38	13.003		
15,300.00	6,027.00	10,624.00	6,231.41	168.18	121.87	102.42	11,564.46	-864.98	2,353.45	2,163.44	190.01	12.386		
15,400.00	6,027.00	10,624.00	6,231.41	169.93	121.87	102.42	11,564.46	-864.98	2,257.66	2,065.91	191.75	11.774		
15,500.00	6,027.00	10,624.00	6,231.41	171.67	121.87	102.42	11,564.46	-864.98	2,162.26	1,968.62	193.64	11.167		
15,600.00	6,027.00	10,624.00	6,231.41	173.41	121.87	102.42	11,564.46	-864.98	2,067.29	1,871.63	195.66	10.565		
15,700.00	6,027.00	10,624.00	6,231.41	175.15	121.87	102.42	11,564.46	-864.98	1,972.82	1,774.97	197.86	9.971		
15,800.00	6,027.00	10,624.00	6,231.41	176.90	121.87	102.42	11,564.46	-864.98	1,878.92	1,678.70	200.22	9.384		
15,900.00	6,027.00	10,624.00	6,231.41	178.64	121.87	102.42	11,564.46	-864.98	1,785.69	1,582.90	202.79	8.806		
16,000.00	6,027.00	10,624.00	6,231.41	180.39	121.87	102.42	11,564.46	-864.98	1,693.23	1,487.66	205.56	8.237		
16,100.00	6,027.00	10,624.00	6,231.41	182.13	121.87	102.42	11,564.46	-864.98	1,601.67	1,393.10	208.57	7.679		
16,200.00	6,027.00	10,624.00	6,231.41	183.88	121.87	102.42	11,564.46	-864.98	1,511.18	1,299.37	211.81	7.135		
16,300.00	6,027.00	10,624.00	6,231.41	185.63	121.87	102.42	11,564.46	-864.98	1,421.97	1,206.65	215.32	6.604		
16,400.00	6,027.00	10,624.00	6,231.41	187.38	121.87	102.42	11,564.46	-864.98	1,334.29	1,115.21	219.07	6.091		
16,500.00	6,027.00	10,624.00	6,231.41	189.12	121.87	102.42	11,564.46	-864.98	1,248.46	1,025.38	223.08	5.597		
16,600.00	6,027.00	10,624.00	6,231.41	190.87	121.87	102.42	11,564.46	-864.98	1,164.90	937.61	227.28	5.125		
16,700.00	6,027.00	10,624.00	6,231.41	192.62	121.87	102.42	11,564.46	-864.98	1,084.12	852.51	231.61	4.681		
16,795.97	6,027.00	10,624.00	6,231.41	194.30	121.87	102.42	11,564.46	-864.98	1,009.84	774.11	235.73	4.284	CC, ES, SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 511-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,200.00	1,199.45	10,502.00	6,092.33	4.19	85.16	46.23	6,103.72	-6,256.75	10,034.20	9,974.49	59.72	168.031		
1,300.00	1,298.70	10,502.00	6,092.33	4.55	85.16	47.23	6,103.72	-6,256.75	9,977.93	9,917.80	60.13	165.948		
1,400.00	1,397.47	10,502.00	6,092.33	4.94	85.16	48.27	6,103.72	-6,256.75	9,920.38	9,859.85	60.53	163.897		
1,500.00	1,495.62	10,502.00	6,092.33	5.34	85.16	49.36	6,103.72	-6,256.75	9,861.61	9,800.69	60.92	161.872		
1,600.00	1,593.06	10,502.00	6,092.33	5.78	85.16	50.51	6,103.72	-6,256.75	9,801.67	9,740.36	61.31	159.865		
1,700.00	1,689.64	10,502.00	6,092.33	6.24	85.16	51.71	6,103.72	-6,256.75	9,740.61	9,678.91	61.70	157.869		
1,800.00	1,785.27	10,502.00	6,092.33	6.75	85.16	52.89	6,103.72	-6,256.75	9,678.48	9,616.39	62.10	155.865		
1,900.00	1,880.44	10,502.00	6,092.33	7.30	85.16	52.89	6,103.72	-6,256.75	9,616.24	9,553.76	62.49	153.890		
2,000.00	1,975.60	10,502.00	6,092.33	7.86	85.16	52.89	6,103.72	-6,256.75	9,554.65	9,491.75	62.90	151.911		
2,100.00	2,070.77	10,502.00	6,092.33	8.43	85.16	52.89	6,103.72	-6,256.75	9,493.71	9,430.39	63.32	149.936		
2,200.00	2,165.93	10,502.00	6,092.33	9.02	85.16	52.89	6,103.72	-6,256.75	9,433.43	9,369.68	63.75	147.968		
2,300.00	2,261.10	10,502.00	6,092.33	9.62	85.16	52.89	6,103.72	-6,256.75	9,373.83	9,309.63	64.20	146.013		
2,400.00	2,356.26	10,502.00	6,092.33	10.23	85.16	52.89	6,103.72	-6,256.75	9,314.93	9,250.27	64.65	144.074		
2,500.00	2,451.43	10,502.00	6,092.33	10.84	85.16	52.89	6,103.72	-6,256.75	9,256.73	9,191.61	65.12	142.155		
2,600.00	2,546.59	10,502.00	6,092.33	11.46	85.16	52.89	6,103.72	-6,256.75	9,199.25	9,133.66	65.59	140.257		
2,700.00	2,641.76	10,502.00	6,092.33	12.09	85.16	52.89	6,103.72	-6,256.75	9,142.50	9,076.44	66.07	138.383		
2,800.00	2,736.92	10,502.00	6,092.33	12.72	85.16	52.89	6,103.72	-6,256.75	9,086.50	9,019.95	66.55	136.535		
2,900.00	2,832.09	10,502.00	6,092.33	13.35	85.16	52.89	6,103.72	-6,256.75	9,031.26	8,964.22	67.04	134.712		
3,000.00	2,927.25	10,502.00	6,092.33	13.99	85.16	52.89	6,103.72	-6,256.75	8,976.79	8,909.26	67.54	132.918		
3,100.00	3,022.42	10,502.00	6,092.33	14.63	85.16	52.89	6,103.72	-6,256.75	8,923.11	8,855.08	68.04	131.153		
3,200.00	3,117.58	10,502.00	6,092.33	15.27	85.16	52.89	6,103.72	-6,256.75	8,870.24	8,801.70	68.54	129.417		
3,300.00	3,212.75	10,502.00	6,092.33	15.91	85.16	52.89	6,103.72	-6,256.75	8,818.18	8,749.13	69.05	127.712		
3,400.00	3,307.91	10,502.00	6,092.33	16.56	85.16	52.89	6,103.72	-6,256.75	8,766.95	8,697.39	69.56	126.037		
3,500.00	3,403.08	10,502.00	6,092.33	17.20	85.16	52.89	6,103.72	-6,256.75	8,716.57	8,646.50	70.07	124.394		
3,600.00	3,498.24	10,502.00	6,092.33	17.85	85.16	52.89	6,103.72	-6,256.75	8,667.05	8,596.46	70.59	122.782		
3,700.00	3,593.41	10,502.00	6,092.33	18.50	85.16	52.89	6,103.72	-6,256.75	8,618.40	8,547.30	71.11	121.202		
3,800.00	3,688.57	10,502.00	6,092.33	19.15	85.16	52.89	6,103.72	-6,256.75	8,570.65	8,499.02	71.63	119.655		
3,900.00	3,783.74	10,502.00	6,092.33	19.81	85.16	52.89	6,103.72	-6,256.75	8,523.80	8,451.65	72.15	118.140		
4,000.00	3,878.90	10,502.00	6,092.33	20.46	85.16	52.89	6,103.72	-6,256.75	8,477.87	8,405.20	72.67	116.657		
4,100.00	3,974.07	10,502.00	6,092.33	21.11	85.16	52.89	6,103.72	-6,256.75	8,432.88	8,359.68	73.20	115.208		
4,200.00	4,069.23	10,502.00	6,092.33	21.77	85.16	52.89	6,103.72	-6,256.75	8,388.84	8,315.12	73.72	113.790		
4,300.00	4,164.40	10,502.00	6,092.33	22.42	85.16	52.89	6,103.72	-6,256.75	8,345.76	8,271.52	74.25	112.406		
4,400.00	4,259.56	10,502.00	6,092.33	23.08	85.16	52.89	6,103.72	-6,256.75	8,303.67	8,228.90	74.77	111.055		
4,500.00	4,354.73	10,502.00	6,092.33	23.74	85.16	52.89	6,103.72	-6,256.75	8,262.57	8,187.28	75.30	109.736		
4,600.00	4,449.89	10,502.00	6,092.33	24.39	85.16	52.89	6,103.72	-6,256.75	8,222.48	8,146.67	75.82	108.450		
4,700.00	4,545.06	10,502.00	6,092.33	25.05	85.16	52.89	6,103.72	-6,256.75	8,183.42	8,107.08	76.34	107.197		
4,800.00	4,640.22	10,502.00	6,092.33	25.71	85.16	52.89	6,103.72	-6,256.75	8,145.40	8,068.54	76.86	105.976		
4,900.00	4,735.39	10,502.00	6,092.33	26.37	85.16	52.89	6,103.72	-6,256.75	8,108.43	8,031.05	77.38	104.788		
5,000.00	4,830.55	10,502.00	6,092.33	27.03	85.16	52.89	6,103.72	-6,256.75	8,072.54	7,994.64	77.90	103.633		
5,100.00	4,925.72	10,502.00	6,092.33	27.69	85.16	52.89	6,103.72	-6,256.75	8,037.72	7,959.31	78.41	102.510		
5,200.00	5,020.88	10,502.00	6,092.33	28.35	85.16	52.89	6,103.72	-6,256.75	8,004.01	7,925.09	78.92	101.419		
5,300.00	5,116.05	10,502.00	6,092.33	29.01	85.16	52.89	6,103.72	-6,256.75	7,971.41	7,891.98	79.43	100.361		
5,400.00	5,211.21	10,502.00	6,092.33	29.67	85.16	52.89	6,103.72	-6,256.75	7,939.93	7,860.00	79.93	99.334		
5,500.00	5,306.38	10,502.00	6,092.33	30.33	85.16	52.89	6,103.72	-6,256.75	7,909.59	7,829.16	80.43	98.339		
5,600.00	5,401.54	10,502.00	6,092.33	30.99	85.16	52.89	6,103.72	-6,256.75	7,880.40	7,799.48	80.93	97.376		
5,700.00	5,496.71	10,502.00	6,092.33	31.65	85.16	48.51	6,103.72	-6,256.75	7,852.26	7,770.84	81.42	96.444		
5,800.00	5,591.13	10,502.00	6,092.33	32.30	85.16	19.20	6,103.72	-6,256.75	7,817.05	7,735.18	81.87	95.481		
5,900.00	5,686.22	10,502.00	6,092.33	32.92	85.16	-1.09	6,103.72	-6,256.75	7,770.54	7,688.30	82.24	94.482		
6,000.00	5,767.23	10,502.00	6,092.33	33.50	85.16	-15.55	6,103.72	-6,256.75	7,713.97	7,631.43	82.54	93.461		
6,100.00	5,843.56	10,502.00	6,092.33	34.04	85.16	-27.89	6,103.72	-6,256.75	7,648.85	7,566.10	82.75	92.433		
6,200.00	5,908.90	10,502.00	6,092.33	34.53	85.16	-40.23	6,103.72	-6,256.75	7,576.96	7,494.07	82.89	91.407		
6,300.00	5,961.25	10,502.00	6,092.33	34.99	85.16	-53.53	6,103.72	-6,256.75	7,500.33	7,417.36	82.97	90.394		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 511-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,400.00	5,999.04	10,502.00	6,092.33	35.42	85.16	-67.63	6,103.72	-6,256.75	7,421.18	7,338.17	83.01	89.401		
6,500.00	6,021.11	10,502.00	6,092.33	35.83	85.16	-81.32	6,103.72	-6,256.75	7,341.87	7,258.85	83.02	88.434		
6,600.00	6,027.00	10,502.00	6,092.33	36.24	85.16	-91.45	6,103.72	-6,256.75	7,264.79	7,181.77	83.03	87.500		
6,700.00	6,027.00	10,502.00	6,092.33	36.68	85.16	-91.45	6,103.72	-6,256.75	7,189.40	7,106.32	83.08	86.540		
6,800.00	6,027.00	10,502.00	6,092.33	37.20	85.16	-91.45	6,103.72	-6,256.75	7,114.61	7,031.42	83.19	85.525		
6,900.00	6,027.00	10,502.00	6,092.33	37.80	85.16	-91.45	6,103.72	-6,256.75	7,040.45	6,957.08	83.37	84.449		
7,000.00	6,027.00	10,502.00	6,092.33	38.47	85.16	-91.45	6,103.72	-6,256.75	6,966.94	6,883.31	83.63	83.308		
7,100.00	6,027.00	10,502.00	6,092.33	39.21	85.16	-91.45	6,103.72	-6,256.75	6,894.09	6,810.12	83.97	82.100		
7,200.00	6,027.00	10,502.00	6,092.33	40.02	85.16	-91.45	6,103.72	-6,256.75	6,821.93	6,737.52	84.41	80.821		
7,300.00	6,027.00	10,502.00	6,092.33	40.89	85.16	-91.45	6,103.72	-6,256.75	6,750.48	6,665.53	84.94	79.471		
7,400.00	6,027.00	10,502.00	6,092.33	41.83	85.16	-91.45	6,103.72	-6,256.75	6,679.76	6,594.18	85.58	78.050		
7,500.00	6,027.00	10,502.00	6,092.33	42.83	85.16	-91.45	6,103.72	-6,256.75	6,609.80	6,523.46	86.34	76.560		
7,600.00	6,027.00	10,502.00	6,092.33	43.88	85.16	-91.45	6,103.72	-6,256.75	6,540.62	6,453.42	87.20	75.004		
7,700.00	6,027.00	10,502.00	6,092.33	44.99	85.16	-91.45	6,103.72	-6,256.75	6,472.24	6,384.05	88.19	73.390		
7,800.00	6,027.00	10,502.00	6,092.33	46.14	85.16	-91.45	6,103.72	-6,256.75	6,404.70	6,315.40	89.30	71.723		
7,900.00	6,027.00	10,502.00	6,092.33	47.33	85.16	-91.45	6,103.72	-6,256.75	6,338.02	6,247.49	90.53	70.013		
8,000.00	6,027.00	10,502.00	6,092.33	48.57	85.16	-91.45	6,103.72	-6,256.75	6,272.22	6,180.34	91.88	68.268		
8,100.00	6,027.00	10,502.00	6,092.33	49.84	85.16	-91.45	6,103.72	-6,256.75	6,207.33	6,113.98	93.34	66.499		
8,200.00	6,027.00	10,502.00	6,092.33	51.15	85.16	-91.45	6,103.72	-6,256.75	6,143.39	6,048.46	94.93	64.716		
8,300.00	6,027.00	10,502.00	6,092.33	52.48	85.16	-91.45	6,103.72	-6,256.75	6,080.41	5,983.79	96.62	62.929		
8,400.00	6,027.00	10,502.00	6,092.33	53.85	85.16	-91.45	6,103.72	-6,256.75	6,018.45	5,920.02	98.43	61.147		
8,500.00	6,027.00	10,502.00	6,092.33	55.24	85.16	-91.45	6,103.72	-6,256.75	5,957.51	5,857.18	100.33	59.378		
8,600.00	6,027.00	10,502.00	6,092.33	56.65	85.16	-91.45	6,103.72	-6,256.75	5,897.64	5,795.31	102.34	57.630		
8,700.00	6,027.00	10,502.00	6,092.33	58.08	85.16	-91.45	6,103.72	-6,256.75	5,838.87	5,734.44	104.43	55.910		
8,800.00	6,027.00	10,502.00	6,092.33	59.54	85.16	-91.45	6,103.72	-6,256.75	5,781.24	5,674.62	106.62	54.223		
8,900.00	6,027.00	10,502.00	6,092.33	61.01	85.16	-91.45	6,103.72	-6,256.75	5,724.76	5,615.88	108.89	52.576		
9,000.00	6,027.00	10,502.00	6,092.33	62.50	85.16	-91.45	6,103.72	-6,256.75	5,669.50	5,558.26	111.23	50.970		
9,100.00	6,027.00	10,502.00	6,092.33	64.01	85.16	-91.45	6,103.72	-6,256.75	5,615.46	5,501.81	113.65	49.410		
9,200.00	6,027.00	10,502.00	6,092.33	65.53	85.16	-91.45	6,103.72	-6,256.75	5,562.70	5,446.57	116.14	47.898		
9,300.00	6,027.00	10,502.00	6,092.33	67.06	85.16	-91.45	6,103.72	-6,256.75	5,511.25	5,392.57	118.68	46.436		
9,400.00	6,027.00	10,502.00	6,092.33	68.61	85.16	-91.45	6,103.72	-6,256.75	5,461.15	5,339.86	121.29	45.025		
9,500.00	6,027.00	10,502.00	6,092.33	70.17	85.16	-91.45	6,103.72	-6,256.75	5,412.43	5,288.48	123.95	43.665		
9,600.00	6,027.00	10,502.00	6,092.33	71.73	85.16	-91.45	6,103.72	-6,256.75	5,365.14	5,238.47	126.66	42.358		
9,700.00	6,027.00	10,502.00	6,092.33	73.31	85.16	-91.45	6,103.72	-6,256.75	5,319.30	5,189.88	129.42	41.102		
9,800.00	6,027.00	10,502.00	6,092.33	74.90	85.16	-91.45	6,103.72	-6,256.75	5,274.96	5,142.75	132.21	39.898		
9,900.00	6,027.00	10,502.00	6,092.33	76.50	85.16	-91.45	6,103.72	-6,256.75	5,232.15	5,097.11	135.04	38.746		
10,000.00	6,027.00	10,502.00	6,092.33	78.10	85.16	-91.45	6,103.72	-6,256.75	5,190.92	5,053.02	137.90	37.643		
10,100.00	6,027.00	10,502.00	6,092.33	79.71	85.16	-91.45	6,103.72	-6,256.75	5,151.30	5,010.52	140.78	36.591		
10,200.00	6,027.00	10,502.00	6,092.33	81.33	85.16	-91.45	6,103.72	-6,256.75	5,113.33	4,969.65	143.68	35.587		
10,300.00	6,027.00	10,502.00	6,092.33	82.96	85.16	-91.45	6,103.72	-6,256.75	5,077.05	4,930.44	146.60	34.631		
10,400.00	6,027.00	10,502.00	6,092.33	84.59	85.16	-91.45	6,103.72	-6,256.75	5,042.49	4,892.95	149.53	33.722		
10,500.00	6,027.00	10,502.00	6,092.33	86.23	85.16	-91.45	6,103.72	-6,256.75	5,009.68	4,857.22	152.47	32.858		
10,600.00	6,027.00	10,502.00	6,092.33	87.87	85.16	-91.45	6,103.72	-6,256.75	4,978.67	4,823.27	155.40	32.038		
10,700.00	6,027.00	10,502.00	6,092.33	89.52	85.16	-91.45	6,103.72	-6,256.75	4,949.49	4,791.16	158.33	31.261		
10,800.00	6,027.00	10,502.00	6,092.33	91.17	85.16	-91.45	6,103.72	-6,256.75	4,922.16	4,760.92	161.24	30.526		
10,900.00	6,027.00	10,502.00	6,092.33	92.83	85.16	-91.45	6,103.72	-6,256.75	4,896.73	4,732.58	164.14	29.832		
11,000.00	6,027.00	10,502.00	6,092.33	94.49	85.16	-91.45	6,103.72	-6,256.75	4,873.21	4,706.19	167.02	29.177		
11,100.00	6,027.00	10,502.00	6,092.33	96.16	85.16	-91.45	6,103.72	-6,256.75	4,851.64	4,681.77	169.87	28.561		
11,200.00	6,027.00	10,502.00	6,092.33	97.83	85.16	-91.45	6,103.72	-6,256.75	4,832.05	4,659.36	172.69	27.982		
11,300.00	6,027.00	10,502.00	6,092.33	99.50	85.16	-91.45	6,103.72	-6,256.75	4,814.45	4,638.98	175.46	27.438		
11,400.00	6,027.00	10,502.00	6,092.33	101.18	85.16	-91.45	6,103.72	-6,256.75	4,798.87	4,620.67	178.20	26.930		
11,500.00	6,027.00	10,502.00	6,092.33	102.86	85.16	-91.45	6,103.72	-6,256.75	4,785.33	4,604.45	180.88	26.455		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 511-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,600.00	6,027.00	10,502.00	6,092.33	104.54	85.16	-91.45	6,103.72	-6,256.75	4,773.85	4,590.34	183.51	26.013		
11,700.00	6,027.00	10,502.00	6,092.33	106.23	85.16	-91.45	6,103.72	-6,256.75	4,764.44	4,578.36	186.09	25.603		
11,800.00	6,027.00	10,502.00	6,092.33	107.92	85.16	-91.45	6,103.72	-6,256.75	4,757.12	4,568.52	188.60	25.224		
11,900.00	6,027.00	10,502.00	6,092.33	109.61	85.16	-91.45	6,103.72	-6,256.75	4,751.88	4,560.85	191.04	24.874		
12,000.00	6,027.00	10,502.00	6,092.33	111.31	85.16	-91.45	6,103.72	-6,256.75	4,748.75	4,555.35	193.41	24.553		
12,098.75	6,027.00	10,502.00	6,092.33	112.98	85.16	-91.45	6,103.72	-6,256.75	4,747.73	4,552.06	195.67	24.264	CC	
12,100.00	6,027.00	10,502.00	6,092.33	113.00	85.16	-91.45	6,103.72	-6,256.75	4,747.73	4,552.03	195.70	24.260		
12,200.00	6,027.00	10,502.00	6,092.33	114.71	85.16	-91.45	6,103.72	-6,256.75	4,748.81	4,550.89	197.91	23.994	ES	
12,300.00	6,027.00	10,484.64	6,092.88	116.41	84.86	-91.46	6,121.05	-6,257.41	4,751.96	4,552.28	199.68	23.798		
12,400.00	6,027.00	10,274.54	6,096.48	118.11	81.23	-91.50	6,331.06	-6,262.10	4,753.71	4,556.39	197.32	24.091		
12,500.00	6,027.00	10,216.37	6,097.76	119.82	80.22	-91.52	6,389.20	-6,263.41	4,755.87	4,557.63	198.24	23.990		
12,600.00	6,027.00	10,103.00	6,099.22	121.53	78.27	-91.53	6,502.52	-6,266.00	4,758.17	4,560.20	197.97	24.035		
12,700.00	6,027.00	9,985.76	6,098.60	123.24	76.26	-91.52	6,619.74	-6,268.32	4,760.11	4,562.49	197.62	24.088		
12,800.00	6,027.00	9,884.00	6,096.88	124.95	74.51	-91.50	6,721.45	-6,270.22	4,761.91	4,564.30	197.61	24.098		
12,900.00	6,027.00	9,823.00	6,097.44	126.66	73.47	-91.51	6,782.43	-6,271.64	4,764.18	4,565.71	198.47	24.004		
13,000.00	6,027.00	9,775.06	6,098.35	128.38	72.64	-91.52	6,830.34	-6,273.03	4,767.20	4,567.60	199.59	23.884		
13,100.00	6,027.00	9,741.58	6,098.81	130.10	72.07	-91.52	6,863.78	-6,274.53	4,771.60	4,570.61	200.99	23.741		
13,200.00	6,027.00	9,636.00	6,099.30	131.82	70.25	-91.53	6,969.25	-6,279.38	4,776.16	4,575.26	200.90	23.774		
13,300.00	6,027.00	9,448.00	6,095.07	133.54	67.04	-91.48	7,157.02	-6,286.97	4,780.07	4,580.95	199.13	24.005		
13,400.00	6,027.00	9,248.94	6,094.73	135.26	63.67	-91.47	7,356.00	-6,290.97	4,781.98	4,584.90	197.08	24.264		
13,500.00	6,027.00	9,199.00	6,095.00	136.98	62.83	-91.47	7,405.93	-6,291.85	4,783.63	4,585.42	198.21	24.134		
13,600.00	6,027.00	9,015.12	6,093.08	138.71	59.74	-91.45	7,589.78	-6,294.15	4,784.84	4,588.35	196.49	24.352		
13,700.00	6,027.00	8,980.00	6,093.54	140.43	59.16	-91.46	7,624.89	-6,294.32	4,785.66	4,587.71	197.95	24.176		
13,800.00	6,027.00	8,925.28	6,094.63	142.16	58.24	-91.47	7,679.59	-6,295.56	4,787.88	4,588.91	198.98	24.062		
13,900.00	6,027.00	8,835.55	6,094.40	143.89	56.75	-91.46	7,769.27	-6,298.20	4,790.79	4,591.52	199.27	24.042		
14,000.00	6,027.00	8,730.00	6,094.53	145.62	54.99	-91.47	7,874.77	-6,300.50	4,792.91	4,593.66	199.25	24.055		
14,100.00	6,027.00	8,633.08	6,097.34	147.35	53.39	-91.50	7,971.60	-6,303.51	4,796.05	4,596.65	199.40	24.053		
14,200.00	6,027.00	8,368.50	6,096.37	149.08	49.08	-91.49	8,236.10	-6,306.90	4,797.61	4,601.52	196.08	24.467		
14,272.63	6,027.00	8,327.00	6,095.69	150.34	48.41	-91.48	8,277.58	-6,306.81	4,797.39	4,600.54	196.85	24.371		
14,300.00	6,027.00	8,314.53	6,095.26	150.81	48.21	-91.47	8,290.04	-6,306.85	4,797.44	4,600.24	197.20	24.327		
14,365.55	6,027.00	8,234.00	6,091.96	151.95	46.92	-91.43	8,370.51	-6,306.89	4,797.36	4,600.37	196.99	24.353		
14,400.00	6,027.00	8,234.00	6,091.96	152.54	46.92	-91.43	8,370.51	-6,306.89	4,797.49	4,599.72	197.76	24.259		
14,500.00	6,027.00	8,175.76	6,090.78	154.28	45.99	-91.42	8,428.72	-6,307.70	4,798.74	4,599.96	198.78	24.141		
14,600.00	6,027.00	8,078.00	6,090.56	156.01	44.44	-91.42	8,526.47	-6,309.53	4,800.58	4,601.59	198.99	24.125		
14,700.00	6,027.00	8,021.70	6,091.28	157.75	43.55	-91.42	8,582.75	-6,310.64	4,802.61	4,602.57	200.04	24.009		
14,800.00	6,027.00	7,862.00	6,092.16	159.49	41.07	-91.43	8,742.42	-6,312.94	4,803.74	4,604.69	199.05	24.134		
14,900.00	6,027.00	7,799.00	6,094.19	161.22	40.10	-91.46	8,805.37	-6,313.89	4,805.35	4,605.36	199.99	24.028		
15,000.00	6,027.00	7,706.00	6,095.15	162.96	38.68	-91.47	8,898.34	-6,315.87	4,807.48	4,607.13	200.36	23.995		
15,100.00	6,027.00	7,596.33	6,098.19	164.70	37.04	-91.50	9,007.94	-6,318.32	4,809.79	4,609.37	200.42	23.999		
15,200.00	6,027.00	7,486.00	6,102.58	166.44	35.42	-91.56	9,118.17	-6,319.70	4,811.07	4,610.57	200.50	23.995		
15,300.00	6,027.00	7,455.00	6,102.93	168.18	34.97	-91.56	9,149.16	-6,320.29	4,813.40	4,611.32	202.08	23.819		
15,400.00	6,027.00	7,380.14	6,102.51	169.93	33.89	-91.55	9,223.97	-6,323.17	4,817.13	4,614.28	202.85	23.747		
15,500.00	6,027.00	7,332.52	6,101.82	171.67	33.22	-91.54	9,271.54	-6,325.04	4,821.22	4,617.13	204.10	23.622		
15,600.00	6,027.00	7,166.00	6,099.86	173.41	30.92	-91.52	9,437.91	-6,331.73	4,825.07	4,621.72	203.34	23.729		
15,700.00	6,027.00	7,088.29	6,100.74	175.15	29.89	-91.53	9,515.56	-6,334.75	4,828.91	4,624.77	204.15	23.654		
15,800.00	6,027.00	7,054.98	6,101.66	176.90	29.46	-91.54	9,548.82	-6,336.30	4,833.55	4,627.88	205.67	23.502		
15,900.00	6,027.00	6,989.91	6,104.69	178.64	28.62	-91.57	9,613.72	-6,339.91	4,839.21	4,632.53	206.68	23.415		
16,000.00	6,027.00	6,908.00	6,108.28	180.39	27.60	-91.61	9,695.39	-6,344.91	4,845.42	4,637.97	207.45	23.357		
16,100.00	6,027.00	6,876.00	6,109.06	182.13	27.22	-91.62	9,727.30	-6,347.16	4,852.51	4,643.56	208.95	23.223		
16,200.00	6,027.00	6,843.00	6,109.52	183.88	26.83	-91.63	9,760.16	-6,350.15	4,861.17	4,650.76	210.41	23.104		
16,300.00	6,027.00	6,843.00	6,109.52	185.63	26.83	-91.63	9,760.16	-6,350.15	4,871.33	4,659.11	212.23	22.953		
16,400.00	6,027.00	6,811.00	6,109.16	187.38	26.45	-91.62	9,791.93	-6,353.93	4,883.17	4,669.56	213.60	22.861	SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		SEC 5-T5N-R61W - EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SURVEY										<b>Offset Site Error:</b>	0.00 usft
Survey Program:		511-MWD OWSG										<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
16,500.00	6,027.00	6,540.00	6,107.64	189.12	23.62	-91.59	10,061.27	-6,383.25	4,893.90	4,681.44	212.46	23.034	
16,600.00	6,027.00	6,455.00	6,108.96	190.87	22.88	-91.61	10,145.92	-6,390.87	4,902.92	4,689.43	213.49	22.966	
16,700.00	6,027.00	6,380.00	6,106.80	192.62	22.29	-91.58	10,220.51	-6,398.10	4,912.48	4,697.81	214.67	22.884	
16,795.97	6,027.00	5,949.00	5,912.64	194.30	19.86	-89.31	10,591.56	-6,425.32	4,918.63	4,704.93	213.70	23.016	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 468-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	92.00	92.00	0.27	0.16	-0.95	6,025.73	-100.23	6,026.56	6,026.14	0.43	N/A		
200.00	200.00	192.00	192.00	0.63	0.33	-0.95	6,025.73	-100.23	6,026.56	6,025.60	0.96	6,284.493		
300.00	300.00	292.00	292.00	0.99	0.50	-0.95	6,025.73	-100.23	6,026.56	6,025.07	1.49	4,044.254		
400.00	400.00	392.00	392.00	1.34	0.68	-0.95	6,025.73	-100.23	6,026.56	6,024.54	2.02	2,981.453		
411.24	411.24	403.24	403.24	1.38	0.70	-0.95	6,025.73	-100.23	6,026.56	6,024.48	2.08	2,895.911		
500.00	500.00	478.00	478.00	1.70	0.84	-0.95	6,025.73	-100.23	6,026.58	6,024.03	2.55	2,366.185		
600.00	600.00	556.62	556.62	2.06	1.13	-0.95	6,026.10	-100.32	6,027.04	6,023.86	3.19	1,891.477		
700.00	700.00	1,497.70	1,483.78	2.42	5.07	-2.19	5,969.56	-227.90	6,026.15	6,018.77	7.38	816.520		
800.00	800.00	1,576.00	1,559.80	2.78	5.47	-2.34	5,959.06	-243.42	6,013.25	6,005.14	8.11	741.041		
900.00	900.00	1,624.66	1,607.30	3.14	5.71	-2.42	5,952.83	-251.96	6,000.94	5,992.25	8.70	690.052		
1,000.00	999.98	1,668.00	1,649.77	3.49	5.92	87.00	5,947.57	-258.80	5,989.33	5,980.08	9.25	647.650		
1,100.00	1,099.84	1,714.71	1,695.61	3.83	6.14	87.17	5,942.31	-266.07	5,978.44	5,968.63	9.81	609.487		
1,200.00	1,199.45	1,760.00	1,740.02	4.19	6.36	87.34	5,937.73	-273.65	5,968.39	5,958.02	10.37	575.444		
1,300.00	1,298.70	1,760.00	1,740.02	4.55	6.36	87.52	5,937.73	-273.65	5,959.42	5,948.68	10.74	554.720		
1,400.00	1,397.47	1,852.00	1,830.41	4.94	6.80	87.67	5,930.36	-289.11	5,951.23	5,939.68	11.55	515.350		
1,500.00	1,495.62	1,852.00	1,830.41	5.34	6.80	87.82	5,930.36	-289.11	5,943.76	5,931.81	11.96	497.136		
1,600.00	1,593.06	1,852.00	1,830.41	5.78	6.80	87.94	5,930.36	-289.11	5,937.83	5,925.44	12.39	479.229		
1,700.00	1,689.64	1,903.65	1,881.32	6.24	7.03	88.08	5,927.69	-297.42	5,932.55	5,919.46	13.09	453.262		
1,800.00	1,785.27	1,944.00	1,921.15	6.75	7.21	88.21	5,926.57	-303.76	5,928.75	5,914.98	13.78	430.378		
1,900.00	1,880.44	1,964.66	1,941.55	7.30	7.30	88.24	5,926.23	-307.01	5,925.98	5,911.57	14.41	411.342		
2,000.00	1,975.60	2,037.00	2,012.87	7.86	7.63	88.35	5,925.42	-319.05	5,924.14	5,908.85	15.29	387.454		
2,100.00	2,070.77	2,184.62	2,158.38	8.43	8.29	88.55	5,923.68	-343.86	5,922.49	5,905.95	16.54	358.154		
2,200.00	2,165.93	2,281.67	2,254.06	9.02	8.73	88.68	5,921.61	-360.04	5,919.77	5,902.20	17.57	336.982		
2,300.00	2,261.10	2,504.29	2,472.25	9.62	9.81	88.93	5,915.50	-403.70	5,916.77	5,897.53	19.24	307.499		
2,400.00	2,356.26	2,567.31	2,533.76	10.23	10.13	88.99	5,913.20	-417.17	5,912.62	5,892.45	20.17	293.132		
2,500.00	2,451.43	2,655.86	2,619.71	10.84	10.60	89.05	5,910.32	-438.29	5,908.92	5,887.67	21.25	278.072		
2,600.00	2,546.59	2,785.20	2,745.47	11.46	11.28	89.15	5,905.92	-468.21	5,905.11	5,882.56	22.55	261.889		
2,700.00	2,641.76	2,917.00	2,874.14	12.09	11.95	89.27	5,900.09	-496.10	5,900.11	5,876.28	23.83	247.565		
2,800.00	2,736.92	3,064.00	3,019.01	12.72	12.64	89.48	5,893.99	-520.20	5,895.77	5,870.64	25.13	234.582		
2,900.00	2,832.09	3,768.98	3,692.66	13.35	16.88	89.77	5,821.20	-707.94	5,884.00	5,854.34	29.66	198.394		
3,000.00	2,927.25	3,938.50	3,855.08	13.99	17.89	89.88	5,794.51	-748.41	5,867.96	5,836.78	31.18	188.167		
3,100.00	3,022.42	3,924.00	3,841.12	14.63	17.80	89.87	5,796.88	-745.32	5,852.22	5,820.42	31.80	184.037		
3,200.00	3,117.58	3,977.15	3,892.40	15.27	18.10	89.92	5,788.88	-756.78	5,837.22	5,804.48	32.73	178.329		
3,300.00	3,212.75	4,019.00	3,932.91	15.91	18.34	89.95	5,783.53	-765.80	5,823.78	5,790.17	33.61	173.252		
3,400.00	3,307.91	4,088.16	4,000.00	16.56	18.72	90.02	5,775.20	-780.42	5,811.24	5,776.62	34.62	167.847		
3,500.00	3,403.08	4,210.00	4,118.50	17.20	19.36	90.16	5,759.75	-804.12	5,798.20	5,762.35	35.85	161.716		
3,600.00	3,498.24	4,290.55	4,197.15	17.85	19.77	90.27	5,749.52	-818.15	5,785.24	5,748.36	36.88	156.865		
3,700.00	3,593.41	4,339.15	4,244.68	18.50	20.02	90.34	5,743.66	-826.47	5,772.95	5,735.17	37.77	152.830		
3,800.00	3,688.57	4,403.00	4,307.14	19.15	20.34	90.43	5,736.75	-837.74	5,761.72	5,722.99	38.73	148.758		
3,900.00	3,783.74	4,466.56	4,369.50	19.81	20.64	90.52	5,730.24	-848.16	5,751.13	5,711.45	39.67	144.959		
4,000.00	3,878.90	4,576.11	4,477.43	20.46	21.14	90.71	5,718.73	-863.03	5,740.45	5,699.67	40.78	140.765		
4,100.00	3,974.07	4,664.14	4,564.13	21.11	21.54	90.87	5,709.47	-875.07	5,729.84	5,688.04	41.80	137.079		
4,200.00	4,069.23	4,726.09	4,625.21	21.77	21.82	90.98	5,703.15	-883.31	5,719.63	5,676.91	42.72	133.899		
4,300.00	4,164.40	4,786.00	4,684.41	22.42	22.08	91.09	5,697.55	-890.53	5,710.25	5,666.63	43.62	130.908		
4,400.00	4,259.56	4,786.00	4,684.41	23.08	22.08	91.09	5,697.55	-890.53	5,702.02	5,657.72	44.30	128.716		
4,500.00	4,354.73	4,835.77	4,733.73	23.74	22.29	91.20	5,693.70	-896.08	5,694.74	5,649.59	45.15	126.125		
4,600.00	4,449.89	4,881.00	4,778.62	24.39	22.47	91.29	5,691.17	-900.95	5,689.02	5,643.04	45.98	123.716		
4,700.00	4,545.06	4,901.51	4,799.00	25.05	22.55	91.33	5,690.26	-903.02	5,684.35	5,637.63	46.72	121.681		
4,800.00	4,640.22	4,976.00	4,873.18	25.71	22.82	91.51	5,687.24	-909.05	5,680.62	5,632.99	47.63	119.263		
4,900.00	4,735.39	5,008.17	4,905.27	26.37	22.94	91.58	5,686.17	-911.18	5,677.67	5,629.28	48.39	117.337		
5,000.00	4,830.55	5,071.00	4,967.93	27.03	23.15	91.74	5,684.84	-915.57	5,675.92	5,626.67	49.25	115.257		
5,100.00	4,925.72	5,095.30	4,992.16	27.69	23.23	91.80	5,684.56	-917.22	5,674.99	5,625.03	49.96	113.585		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 468-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,145.33	4,968.86	5,120.64	5,017.46	27.99	23.32	91.86	5,684.33	-918.75	5,674.91	5,624.58	50.33	112.743	
5,200.00	5,020.88	5,166.00	5,062.77	28.35	23.47	91.98	5,684.11	-920.97	5,675.07	5,624.23	50.83	111.638	
5,300.00	5,116.05	5,227.08	5,123.80	29.01	23.65	92.15	5,684.01	-923.29	5,675.76	5,624.10	51.66	109.874	
5,400.00	5,211.21	5,307.56	5,204.24	29.67	23.89	92.37	5,684.00	-925.58	5,676.87	5,624.33	52.54	108.058	
5,500.00	5,306.38	5,389.56	5,286.23	30.33	24.12	92.62	5,684.18	-926.88	5,678.40	5,624.99	53.41	106.319	
5,600.00	5,401.54	5,477.12	5,373.80	30.99	24.36	92.88	5,684.46	-927.56	5,680.23	5,625.94	54.29	104.627	
5,700.00	5,496.71	5,563.23	5,459.90	31.65	24.59	89.00	5,684.86	-927.72	5,682.23	5,627.08	55.16	103.019	
5,800.00	5,591.13	5,612.00	5,508.67	32.30	24.71	62.21	5,685.15	-927.63	5,673.84	5,617.93	55.91	101.488	
5,900.00	5,682.22	5,644.00	5,540.66	32.92	24.80	45.65	5,685.84	-927.78	5,649.58	5,592.99	56.59	99.836	
6,000.00	5,767.23	5,644.00	5,540.66	33.50	24.80	36.36	5,685.84	-927.78	5,610.12	5,552.99	57.13	98.206	
6,100.00	5,843.56	5,644.00	5,540.66	34.04	24.80	31.20	5,685.84	-927.78	5,556.69	5,499.08	57.61	96.458	
6,200.00	5,908.90	5,659.06	5,555.70	34.53	24.84	28.62	5,686.60	-928.08	5,490.30	5,432.22	58.08	94.527	
6,300.00	5,961.25	5,675.00	5,571.57	34.99	24.88	27.98	5,687.91	-928.64	5,412.95	5,354.46	58.49	92.537	
6,400.00	5,999.04	5,675.00	5,571.57	35.42	24.88	29.44	5,687.91	-928.64	5,326.19	5,267.41	58.78	90.617	
6,500.00	6,021.11	5,675.00	5,571.57	35.83	24.88	35.19	5,687.91	-928.64	5,232.53	5,173.54	58.99	88.701	
6,600.00	6,027.00	5,675.00	5,571.57	36.24	24.88	52.44	5,687.91	-928.64	5,134.55	5,075.41	59.14	86.819	
6,700.00	6,027.00	5,675.00	5,571.57	36.68	24.88	52.44	5,687.91	-928.64	5,035.59	4,976.33	59.27	84.962	
6,800.00	6,027.00	5,675.00	5,571.57	37.20	24.88	52.44	5,687.91	-928.64	4,936.68	4,877.28	59.40	83.104	
6,900.00	6,027.00	5,675.00	5,571.57	37.80	24.88	52.44	5,687.91	-928.64	4,837.82	4,778.27	59.54	81.248	
7,000.00	6,027.00	5,675.00	5,571.57	38.47	24.88	52.44	5,687.91	-928.64	4,739.00	4,679.31	59.69	79.391	
7,100.00	6,027.00	5,675.00	5,571.57	39.21	24.88	52.44	5,687.91	-928.64	4,640.23	4,580.39	59.85	77.536	
7,200.00	6,027.00	5,675.00	5,571.57	40.02	24.88	52.44	5,687.91	-928.64	4,541.52	4,481.51	60.01	75.681	
7,300.00	6,027.00	5,675.00	5,571.57	40.89	24.88	52.44	5,687.91	-928.64	4,442.86	4,382.68	60.18	73.827	
7,400.00	6,027.00	5,675.00	5,571.57	41.83	24.88	52.44	5,687.91	-928.64	4,344.27	4,283.91	60.36	71.974	
7,500.00	6,027.00	5,675.00	5,571.57	42.83	24.88	52.44	5,687.91	-928.64	4,245.74	4,185.19	60.55	70.122	
7,600.00	6,027.00	5,675.00	5,571.57	43.88	24.88	52.44	5,687.91	-928.64	4,147.28	4,086.53	60.75	68.272	
7,700.00	6,027.00	5,675.00	5,571.57	44.99	24.88	52.44	5,687.91	-928.64	4,048.90	3,987.94	60.96	66.424	
7,800.00	6,027.00	5,675.00	5,571.57	46.14	24.88	52.44	5,687.91	-928.64	3,950.60	3,889.42	61.18	64.578	
7,900.00	6,027.00	5,675.00	5,571.57	47.33	24.88	52.44	5,687.91	-928.64	3,852.38	3,790.97	61.41	62.734	
8,000.00	6,027.00	5,675.00	5,571.57	48.57	24.88	52.44	5,687.91	-928.64	3,754.26	3,692.61	61.65	60.892	
8,100.00	6,027.00	5,675.00	5,571.57	49.84	24.88	52.44	5,687.91	-928.64	3,656.24	3,594.33	61.91	59.053	
8,200.00	6,027.00	5,675.00	5,571.57	51.15	24.88	52.44	5,687.91	-928.64	3,558.34	3,496.15	62.19	57.217	
8,300.00	6,027.00	5,690.42	5,586.87	52.48	24.92	53.36	5,689.71	-929.37	3,460.25	3,397.69	62.56	55.312	
8,400.00	6,027.00	5,692.00	5,588.43	53.85	24.92	53.46	5,689.93	-929.45	3,362.52	3,299.64	62.88	53.477	
8,500.00	6,027.00	5,707.00	5,603.22	55.24	24.96	54.37	5,692.28	-930.29	3,265.16	3,201.87	63.28	51.596	
8,600.00	6,027.00	5,707.00	5,603.22	56.65	24.96	54.37	5,692.28	-930.29	3,167.65	3,104.01	63.64	49.776	
8,700.00	6,027.00	5,707.00	5,603.22	58.08	24.96	54.37	5,692.28	-930.29	3,070.30	3,006.29	64.02	47.962	
8,800.00	6,027.00	5,707.00	5,603.22	59.54	24.96	54.37	5,692.28	-930.29	2,973.14	2,908.72	64.42	46.154	
8,900.00	6,027.00	5,707.00	5,603.22	61.01	24.96	54.37	5,692.28	-930.29	2,876.16	2,811.31	64.85	44.351	
9,000.00	6,027.00	5,707.00	5,603.22	62.50	24.96	54.37	5,692.28	-930.29	2,779.40	2,714.09	65.31	42.555	
9,100.00	6,027.00	5,707.00	5,603.22	64.01	24.96	54.37	5,692.28	-930.29	2,682.88	2,617.07	65.81	40.767	
9,200.00	6,027.00	5,707.00	5,603.22	65.53	24.96	54.37	5,692.28	-930.29	2,586.62	2,520.27	66.34	38.988	
9,300.00	6,027.00	5,707.00	5,603.22	67.06	24.96	54.37	5,692.28	-930.29	2,490.65	2,423.73	66.92	37.218	
9,400.00	6,027.00	5,707.00	5,603.22	68.61	24.96	54.37	5,692.28	-930.29	2,395.02	2,327.47	67.54	35.459	
9,500.00	6,027.00	5,707.00	5,603.22	70.17	24.96	54.37	5,692.28	-930.29	2,299.76	2,231.54	68.22	33.712	
9,600.00	6,027.00	5,721.11	5,617.04	71.73	25.00	55.24	5,694.97	-931.21	2,204.66	2,135.61	69.04	31.932	
9,700.00	6,027.00	5,724.92	5,620.75	73.31	25.01	55.48	5,695.77	-931.48	2,110.13	2,040.26	69.87	30.202	
9,800.00	6,027.00	5,738.00	5,633.44	74.90	25.04	56.29	5,698.80	-932.51	2,016.20	1,945.37	70.83	28.467	
9,900.00	6,027.00	5,738.00	5,633.44	76.50	25.04	56.29	5,698.80	-932.51	1,922.63	1,850.84	71.79	26.782	
10,000.00	6,027.00	5,738.00	5,633.44	78.10	25.04	56.29	5,698.80	-932.51	1,829.74	1,756.90	72.84	25.120	
10,100.00	6,027.00	5,738.00	5,633.44	79.71	25.04	56.29	5,698.80	-932.51	1,737.65	1,663.65	74.00	23.482	
10,200.00	6,027.00	5,738.00	5,633.44	81.33	25.04	56.29	5,698.80	-932.51	1,646.47	1,571.20	75.27	21.873	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 468-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	5,756.32	5,651.02	82.96	25.09	57.44	5,703.71	-934.11	1,555.93	1,479.09	76.84	20.249		
10,400.00	6,027.00	5,770.00	5,663.99	84.59	25.12	58.31	5,707.86	-935.40	1,466.75	1,388.22	78.52	18.679		
10,500.00	6,027.00	5,770.00	5,663.99	86.23	25.12	58.31	5,707.86	-935.40	1,378.77	1,298.49	80.28	17.175		
10,600.00	6,027.00	5,770.00	5,663.99	87.87	25.12	58.31	5,707.86	-935.40	1,292.53	1,210.31	82.22	15.720		
10,700.00	6,027.00	5,802.00	5,693.67	89.52	25.19	60.36	5,719.29	-938.83	1,207.97	1,123.26	84.71	14.260		
10,800.00	6,027.00	5,802.00	5,693.67	91.17	25.19	60.36	5,719.29	-938.83	1,125.42	1,038.27	87.15	12.914		
10,900.00	6,027.00	5,816.08	5,706.37	92.83	25.22	61.25	5,725.11	-940.56	1,045.62	955.62	90.00	11.618		
11,000.00	6,027.00	5,833.00	5,721.28	94.49	25.25	62.32	5,732.76	-942.89	968.94	875.76	93.18	10.398		
11,100.00	6,027.00	5,851.93	5,737.41	96.16	25.29	63.49	5,742.20	-945.89	895.93	799.24	96.69	9.266		
11,200.00	6,027.00	5,882.72	5,762.38	97.83	25.35	65.33	5,759.22	-951.74	827.04	726.46	100.58	8.223		
11,300.00	6,027.00	5,928.00	5,797.55	99.50	25.44	68.03	5,786.03	-961.47	762.10	657.22	104.88	7.266		
11,400.00	6,027.00	5,971.92	5,830.54	101.18	25.52	70.74	5,813.33	-971.23	701.55	592.08	109.46	6.409		
11,500.00	6,027.00	6,023.00	5,867.27	102.86	25.61	73.95	5,846.78	-983.08	645.96	531.69	114.28	5.653		
11,600.00	6,027.00	6,080.71	5,906.38	104.54	25.73	77.63	5,886.81	-997.13	595.86	476.72	119.14	5.001		
11,700.00	6,027.00	6,116.00	5,928.68	106.23	25.80	79.86	5,912.86	-1,005.40	553.22	429.65	123.57	4.477		
11,800.00	6,027.00	6,148.00	5,947.13	107.92	25.84	81.81	5,938.30	-1,011.36	521.35	394.28	127.07	4.103		
11,900.00	6,027.00	6,190.46	5,969.93	109.61	25.87	84.33	5,973.82	-1,015.88	501.66	372.19	129.47	3.875		
12,000.00	6,027.00	6,251.71	6,001.30	111.31	25.88	87.94	6,026.36	-1,018.06	493.21	362.00	131.21	3.759		
12,055.82	6,027.00	6,292.43	6,021.17	112.25	25.89	90.25	6,061.90	-1,018.35	492.19	360.23	131.96	3.730		
12,100.00	6,027.00	6,333.82	6,040.53	113.00	25.91	92.51	6,098.48	-1,018.48	492.59	359.80	132.79	3.709		
12,200.00	6,027.00	6,444.23	6,082.18	114.71	26.00	97.35	6,200.61	-1,020.76	493.90	358.82	135.09	3.656		
12,300.00	6,027.00	6,720.57	6,137.87	116.41	27.45	105.63	6,459.65	-1,085.78	467.13	327.82	139.31	3.353		
12,400.00	6,027.00	6,780.33	6,134.13	118.11	27.97	105.77	6,516.69	-1,103.04	437.76	295.73	142.03	3.082		
12,500.00	6,027.00	6,851.07	6,129.46	119.82	28.59	105.70	6,585.73	-1,117.66	415.93	271.56	144.37	2.881		
12,600.00	6,027.00	6,917.32	6,127.38	121.53	29.17	105.80	6,651.16	-1,127.74	400.52	254.58	145.94	2.744		
12,700.00	6,027.00	6,988.22	6,124.07	123.24	29.78	105.50	6,721.84	-1,131.90	393.40	246.27	147.13	2.674		
12,750.64	6,027.00	7,023.13	6,122.29	124.10	30.07	105.27	6,756.69	-1,132.27	392.26	244.84	147.42	2.661 CC		
12,800.00	6,027.00	7,053.48	6,121.21	124.95	30.33	105.07	6,787.00	-1,131.11	393.57	246.41	147.16	2.674		
12,900.00	6,027.00	7,128.34	6,120.05	126.66	30.92	104.66	6,861.53	-1,124.38	401.80	254.41	147.39	2.726		
13,000.00	6,027.00	7,221.46	6,118.71	128.38	31.69	104.06	6,953.88	-1,112.52	413.81	264.28	149.53	2.767		
13,100.00	6,027.00	7,320.26	6,116.96	130.10	32.57	103.39	7,051.77	-1,099.27	426.45	274.05	152.40	2.798		
13,200.00	6,027.00	7,416.75	6,115.16	131.82	33.50	102.76	7,147.34	-1,086.07	439.39	284.34	155.05	2.834		
13,300.00	6,027.00	7,513.72	6,116.79	133.54	34.50	102.58	7,243.36	-1,072.71	453.23	295.55	157.68	2.874		
13,400.00	6,027.00	7,612.79	6,120.56	135.26	35.57	102.69	7,341.50	-1,059.75	466.84	306.32	160.52	2.908		
13,500.00	6,027.00	7,709.61	6,121.65	136.98	36.67	102.45	7,437.32	-1,045.95	481.02	317.77	163.26	2.946		
13,600.00	6,027.00	7,809.02	6,120.71	138.71	37.84	101.97	7,535.64	-1,031.26	495.29	328.89	166.40	2.977		
13,700.00	6,027.00	7,912.53	6,118.09	140.43	39.10	101.32	7,637.99	-1,016.05	509.23	339.14	170.09	2.994		
13,800.00	6,027.00	8,024.05	6,114.79	142.16	40.54	100.65	7,748.52	-1,001.64	521.38	346.74	174.64	2.985		
13,900.00	6,027.00	8,134.93	6,113.56	143.89	42.03	100.29	7,858.79	-990.13	531.42	352.43	178.99	2.969		
14,000.00	6,027.00	8,247.68	6,114.01	145.62	43.60	100.17	7,971.20	-981.42	539.11	355.71	183.40	2.940		
14,100.00	6,027.00	8,353.52	6,115.94	147.35	45.13	100.26	8,076.85	-975.44	545.01	357.91	187.10	2.913		
14,200.00	6,027.00	8,460.99	6,117.96	149.08	46.72	100.38	8,184.20	-970.67	549.75	358.82	190.93	2.879		
14,300.00	6,027.00	8,571.30	6,119.68	150.81	48.39	100.50	8,294.45	-967.69	552.70	357.73	194.97	2.835		
14,400.00	6,027.00	8,673.19	6,120.52	152.54	49.95	100.55	8,396.32	-966.14	554.36	355.99	198.36	2.795		
14,500.00	6,027.00	8,770.30	6,120.98	154.28	51.45	100.56	8,493.41	-964.11	556.52	355.09	201.42	2.763		
14,600.00	6,027.00	8,872.52	6,120.69	156.01	53.05	100.49	8,595.60	-961.86	558.66	353.74	204.91	2.726		
14,700.00	6,027.00	8,978.62	6,119.56	157.75	54.72	100.34	8,701.68	-960.14	560.08	351.35	208.73	2.683		
14,800.00	6,027.00	9,095.77	6,118.44	159.49	56.60	100.24	8,818.81	-960.57	559.61	346.34	213.27	2.624		
14,900.00	6,027.00	9,208.39	6,120.91	161.22	58.44	100.57	8,931.31	-965.04	556.11	338.87	217.24	2.560		
15,000.00	6,027.00	9,312.28	6,122.08	162.96	60.15	100.79	9,035.05	-970.40	551.27	330.54	220.73	2.498		
15,100.00	6,027.00	9,420.05	6,122.35	164.70	61.94	100.95	9,142.62	-976.97	545.36	320.93	224.43	2.430		
15,200.00	6,027.00	9,523.53	6,123.01	166.44	63.68	101.18	9,245.79	-984.99	537.87	310.00	227.87	2.360		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL SURVEY												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 468-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,300.00	6,027.00	9,615.55	6,122.58	168.18	65.22	101.26	9,337.60	-991.06	531.33	300.49	230.84	2.302	
15,400.00	6,027.00	9,713.30	6,121.66	169.93	66.86	101.28	9,435.20	-996.51	525.69	291.59	234.10	2.246	
15,500.00	6,027.00	9,813.47	6,119.92	171.67	68.55	101.21	9,535.20	-1,001.94	520.05	282.51	237.54	2.189	
15,600.00	6,027.00	9,910.52	6,120.56	173.41	70.20	101.40	9,632.09	-1,007.43	514.66	273.97	240.69	2.138	
15,700.00	6,027.00	10,003.96	6,122.90	175.15	71.78	101.76	9,725.38	-1,012.26	510.12	266.61	243.51	2.095	
15,800.00	6,027.00	10,097.59	6,124.13	176.90	73.36	101.97	9,818.94	-1,015.34	507.18	260.81	246.37	2.059	
15,900.00	6,027.00	10,195.37	6,123.48	178.64	75.01	101.95	9,916.69	-1,017.72	504.68	255.06	249.62	2.022	
16,000.00	6,027.00	10,292.82	6,123.21	180.39	76.65	101.95	10,014.13	-1,019.23	503.13	250.30	252.83	1.990	
16,100.00	6,027.00	10,390.87	6,122.89	182.13	78.31	101.96	10,112.16	-1,021.06	501.26	245.18	256.08	1.957	
16,149.25	6,027.00	10,434.03	6,123.00	182.99	79.04	101.98	10,155.32	-1,021.36	500.96	243.69	257.27	1.947	
16,200.00	6,027.00	10,483.02	6,123.35	183.88	79.87	102.02	10,204.31	-1,021.30	501.11	242.29	258.82	1.936	
16,300.00	6,027.00	10,586.51	6,124.24	185.63	81.62	102.12	10,307.79	-1,021.29	501.33	238.88	262.45	1.910	
16,400.00	6,027.00	10,694.38	6,125.31	187.38	83.45	102.27	10,415.65	-1,022.82	500.17	233.81	266.36	1.878	
16,476.64	6,027.00	10,762.00	6,125.90	188.72	84.61	102.38	10,483.25	-1,024.44	498.63	230.42	268.21	1.859 ES, SF	
16,500.00	6,027.00	10,762.00	6,125.90	189.12	84.61	102.38	10,483.25	-1,024.44	499.15	232.34	266.82	1.871	
16,600.00	6,027.00	10,762.00	6,125.90	190.87	84.61	102.38	10,483.25	-1,024.44	513.53	258.50	255.03	2.014	
16,700.00	6,027.00	10,762.00	6,125.90	192.62	84.61	102.38	10,483.25	-1,024.44	546.15	309.90	236.25	2.312	
16,795.97	6,027.00	10,762.00	6,125.90	194.30	84.61	102.38	10,483.25	-1,024.44	591.83	376.49	215.34	2.748	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	80.99	80.99	0.27	0.23	-83.18	661.49	-5,526.92	5,566.42	5,565.92	0.50	N/A		
200.00	200.00	190.73	190.72	0.63	0.62	-83.17	661.53	-5,526.22	5,565.78	5,564.53	1.25	4,451.651		
300.00	300.00	277.80	277.79	0.99	0.93	-83.17	661.47	-5,525.79	5,565.28	5,563.36	1.92	2,899.637		
400.00	400.00	381.86	381.86	1.34	1.30	-83.18	661.14	-5,525.44	5,564.91	5,562.26	2.65	2,101.692		
500.00	500.00	496.33	496.32	1.70	1.71	-83.18	660.65	-5,524.83	5,564.32	5,560.91	3.42	1,629.303		
600.00	600.00	604.07	604.06	2.06	2.10	-83.18	660.25	-5,524.02	5,563.53	5,559.38	4.16	1,337.649		
700.00	700.00	693.58	693.56	2.42	2.42	-83.18	660.25	-5,523.28	5,562.73	5,557.89	4.84	1,149.995		
800.00	800.00	785.59	785.57	2.78	2.75	-83.19	659.96	-5,522.85	5,562.21	5,556.69	5.52	1,006.874		
900.00	900.00	879.53	879.51	3.14	3.08	-83.19	659.70	-5,522.39	5,561.70	5,555.48	6.22	894.345		
1,000.00	999.98	988.09	988.07	3.49	3.47	6.07	659.61	-5,521.96	5,559.57	5,552.61	6.95	799.407		
1,100.00	1,099.84	1,085.87	1,085.85	3.83	3.81	6.10	660.07	-5,521.35	5,553.80	5,546.16	7.64	726.639		
1,200.00	1,199.45	1,156.22	1,156.20	4.19	4.05	6.13	660.33	-5,521.12	5,544.86	5,536.63	8.23	673.638		
1,300.00	1,298.70	1,234.35	1,234.33	4.55	4.31	6.16	660.30	-5,521.31	5,532.97	5,524.12	8.84	625.683		
1,400.00	1,397.47	1,315.99	1,315.97	4.94	4.59	6.21	660.37	-5,521.74	5,517.95	5,508.48	9.47	582.803		
1,500.00	1,495.62	1,418.51	1,418.48	5.34	4.93	6.27	660.38	-5,522.51	5,499.72	5,489.55	10.17	540.884		
1,600.00	1,593.06	1,523.76	1,523.73	5.78	5.29	6.35	660.71	-5,523.03	5,477.86	5,466.97	10.88	503.273		
1,700.00	1,689.64	1,652.67	1,652.64	6.24	5.73	6.46	661.40	-5,523.28	5,452.40	5,440.71	11.69	466.391		
1,800.00	1,785.27	1,748.18	1,748.14	6.75	6.06	6.55	660.71	-5,523.16	5,423.14	5,410.75	12.39	437.677		
1,900.00	1,880.44	1,845.84	1,845.80	7.30	6.41	6.60	661.29	-5,523.01	5,392.53	5,379.44	13.09	411.928		
2,000.00	1,975.60	2,847.70	2,838.06	7.86	10.13	6.21	584.21	-5,442.46	5,350.18	5,333.36	16.82	318.092		
2,100.00	2,070.77	2,920.00	2,909.02	8.43	10.43	6.16	576.29	-5,431.07	5,303.97	5,286.52	17.44	304.050		
2,200.00	2,165.93	2,988.70	2,976.45	9.02	10.72	6.11	568.43	-5,420.53	5,258.06	5,240.00	18.06	291.065		
2,300.00	2,261.10	3,057.14	3,043.62	9.62	11.01	6.05	560.04	-5,410.50	5,212.65	5,193.96	18.69	278.880		
2,400.00	2,356.26	3,189.97	3,173.99	10.23	11.58	5.93	543.65	-5,390.96	5,167.30	5,147.77	19.53	264.532		
2,500.00	2,451.43	3,391.15	3,371.41	10.84	12.45	5.84	526.71	-5,356.48	5,119.83	5,099.25	20.57	248.863		
2,600.00	2,546.59	3,495.60	3,473.91	11.46	12.90	5.84	521.43	-5,337.10	5,071.72	5,050.43	21.30	238.118		
2,700.00	2,641.76	3,585.45	3,562.10	12.09	13.28	5.87	519.18	-5,319.99	5,023.43	5,001.45	21.98	228.544		
2,800.00	2,736.92	3,664.03	3,639.22	12.72	13.62	5.89	516.74	-5,305.15	4,975.22	4,952.59	22.63	219.819		
2,900.00	2,832.09	3,735.88	3,709.73	13.35	13.94	5.89	512.82	-5,291.94	4,927.23	4,903.96	23.28	211.695		
3,000.00	2,927.25	3,800.00	3,772.63	13.99	14.22	5.87	507.69	-5,280.60	4,879.60	4,855.70	23.90	204.142		
3,100.00	3,022.42	3,846.12	3,817.86	14.63	14.43	5.83	502.99	-5,272.86	4,832.57	4,808.08	24.49	197.347		
3,200.00	3,117.58	3,888.00	3,858.90	15.27	14.63	5.79	497.93	-5,266.30	4,786.33	4,761.27	25.06	190.970		
3,300.00	3,212.75	3,932.49	3,902.51	15.91	14.83	5.74	491.87	-5,259.83	4,740.95	4,715.29	25.65	184.801		
3,400.00	3,307.91	3,977.00	3,946.12	16.56	15.03	5.68	485.27	-5,253.90	4,696.47	4,670.22	26.25	178.924		
3,500.00	3,403.08	4,037.68	4,005.56	17.20	15.31	5.58	475.69	-5,246.36	4,652.72	4,625.82	26.90	172.973		
3,600.00	3,498.24	4,096.21	4,062.88	17.85	15.57	5.48	466.06	-5,239.44	4,609.50	4,581.95	27.55	167.340		
3,700.00	3,593.41	4,154.00	4,119.49	18.50	15.83	5.38	456.32	-5,233.09	4,566.99	4,538.79	28.19	161.984		
3,800.00	3,688.57	4,223.19	4,187.28	19.15	16.15	5.26	444.47	-5,225.92	4,525.03	4,496.15	28.88	156.670		
3,900.00	3,783.74	4,541.52	4,499.13	19.81	17.62	4.76	397.07	-5,184.18	4,480.58	4,450.28	30.31	147.832		
4,000.00	3,878.90	4,611.65	4,567.85	20.46	17.95	4.68	388.28	-5,173.25	4,434.47	4,403.48	30.99	143.078		
4,100.00	3,974.07	4,682.00	4,636.77	21.11	18.28	4.58	379.04	-5,162.63	4,388.75	4,357.07	31.68	138.520		
4,200.00	4,069.23	4,759.62	4,712.85	21.77	18.65	4.47	368.78	-5,151.19	4,343.35	4,310.95	32.40	134.072		
4,300.00	4,164.40	4,805.45	4,757.80	22.42	18.87	4.40	362.61	-5,144.67	4,298.45	4,265.43	33.03	130.154		
4,400.00	4,259.56	4,859.00	4,810.29	23.08	19.12	4.31	354.52	-5,137.85	4,254.61	4,220.93	33.68	126.321		
4,500.00	4,354.73	4,948.16	4,897.68	23.74	19.54	4.15	340.56	-5,126.92	4,211.28	4,176.84	34.44	122.274		
4,600.00	4,449.89	5,244.01	5,187.63	24.39	20.94	3.72	303.29	-5,082.31	4,166.19	4,130.49	35.70	116.701		
4,700.00	4,545.06	5,368.96	5,310.04	25.05	21.53	3.65	294.35	-5,058.91	4,117.80	4,081.31	36.48	112.864		
4,800.00	4,640.22	5,454.83	5,394.15	25.71	21.93	3.62	289.62	-5,042.33	4,069.01	4,031.83	37.19	109.422		
4,900.00	4,735.39	5,510.89	5,449.10	26.37	22.19	3.59	286.18	-5,031.72	4,020.57	3,982.73	37.84	106.254		
5,000.00	4,830.55	5,767.21	5,696.43	27.03	23.19	4.12	308.83	-4,977.88	3,971.39	3,932.77	38.63	102.815		
5,100.00	4,925.72	5,830.00	5,752.83	27.69	23.35	4.55	332.06	-4,963.11	3,920.25	3,881.06	39.20	100.013		
5,200.00	5,020.88	6,091.00	5,952.28	28.35	23.77	7.41	484.93	-4,898.70	3,868.46	3,828.64	39.82	97.145		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	6,091.00	5,952.28	29.01	23.77	7.41	484.93	-4,898.70	3,815.89	3,775.47	40.42	94.405		
5,400.00	5,211.21	6,091.00	5,952.28	29.67	23.77	7.41	484.93	-4,898.70	3,765.24	3,724.22	41.02	91.797		
5,500.00	5,306.38	6,131.81	5,977.25	30.33	23.80	7.98	515.58	-4,888.59	3,715.44	3,673.76	41.68	89.148		
5,600.00	5,401.54	6,141.45	5,982.90	30.99	23.81	8.12	523.09	-4,886.48	3,668.23	3,625.94	42.29	86.746		
5,700.00	5,496.71	6,179.00	6,004.03	31.65	23.85	3.88	553.29	-4,879.35	3,623.57	3,580.62	42.95	84.366		
5,800.00	5,591.13	6,179.00	6,004.03	32.30	23.85	-28.09	553.29	-4,879.35	3,578.86	3,535.38	43.48	82.303		
5,900.00	5,682.22	6,179.00	6,004.03	32.92	23.85	-49.78	553.29	-4,879.35	3,535.36	3,491.43	43.93	80.477		
6,000.00	5,767.23	6,179.00	6,004.03	33.50	23.85	-63.88	553.29	-4,879.35	3,494.47	3,450.16	44.31	78.861		
6,100.00	5,843.56	6,179.00	6,004.03	34.04	23.85	-73.53	553.29	-4,879.35	3,457.55	3,412.87	44.68	77.389		
6,200.00	5,908.90	6,230.91	6,030.00	34.53	23.85	-80.25	597.60	-4,871.98	3,424.09	3,378.91	45.18	75.795		
6,300.00	5,961.25	6,268.00	6,045.72	34.99	23.87	-85.16	630.98	-4,868.36	3,397.15	3,351.44	45.70	74.333		
6,400.00	5,999.04	6,343.73	6,070.65	35.42	23.89	-88.59	702.13	-4,861.68	3,376.05	3,329.64	46.41	72.748		
6,500.00	6,021.11	6,532.00	6,104.66	35.83	24.27	-90.88	885.82	-4,842.28	3,358.72	3,311.11	47.61	70.549		
6,600.00	6,027.00	6,593.96	6,108.49	36.24	24.56	-92.14	947.28	-4,835.40	3,345.80	3,297.24	48.56	68.905		
6,700.00	6,027.00	6,680.38	6,113.71	36.68	25.09	-92.24	1,033.11	-4,826.77	3,335.97	3,286.19	49.78	67.018		
6,800.00	6,027.00	6,813.20	6,118.89	37.20	26.09	-92.34	1,165.11	-4,812.96	3,325.73	3,274.29	51.44	64.652		
6,900.00	6,027.00	6,973.00	6,122.41	37.80	27.53	-92.41	1,323.77	-4,794.43	3,314.34	3,260.77	53.57	61.871		
7,000.00	6,027.00	7,037.49	6,122.18	38.47	28.18	-92.41	1,387.77	-4,786.44	3,302.03	3,246.83	55.20	59.823		
7,100.00	6,027.00	7,087.89	6,122.05	39.21	28.69	-92.42	1,437.86	-4,780.96	3,291.16	3,234.31	56.85	57.897		
7,200.00	6,027.00	7,150.00	6,121.73	40.02	29.35	-92.41	1,499.72	-4,775.34	3,281.90	3,223.20	58.69	55.915		
7,300.00	6,027.00	7,202.70	6,121.36	40.89	29.93	-92.41	1,552.26	-4,771.24	3,273.87	3,213.29	60.59	54.036		
7,400.00	6,027.00	7,326.00	6,120.47	41.83	31.33	-92.40	1,675.15	-4,761.30	3,265.72	3,202.58	63.13	51.726		
7,500.00	6,027.00	7,380.02	6,120.17	42.83	31.97	-92.40	1,728.98	-4,756.86	3,257.78	3,192.56	65.21	49.955		
7,600.00	6,027.00	7,413.00	6,120.08	43.88	32.37	-92.40	1,761.90	-4,754.88	3,251.88	3,184.70	67.17	48.409		
7,700.00	6,027.00	7,483.67	6,119.95	44.99	33.23	-92.40	1,832.50	-4,751.69	3,247.38	3,177.86	69.53	46.707		
7,800.00	6,027.00	7,502.00	6,119.92	46.14	33.46	-92.40	1,850.82	-4,751.01	3,244.52	3,173.06	71.46	45.405		
7,900.00	6,027.00	7,560.77	6,119.80	47.33	34.19	-92.40	1,909.57	-4,749.93	3,243.11	3,169.31	73.80	43.946 CC		
7,933.52	6,027.00	7,590.00	6,119.76	47.74	34.55	-92.40	1,938.80	-4,750.15	3,243.32	3,168.64	74.68	43.431		
8,000.00	6,027.00	7,590.00	6,119.76	48.57	34.55	-92.40	1,938.80	-4,750.15	3,244.00	3,168.12	75.89	42.749		
8,100.00	6,027.00	7,642.98	6,119.65	49.84	35.22	-92.40	1,991.76	-4,751.51	3,246.65	3,168.42	78.23	41.501		
8,200.00	6,027.00	7,676.00	6,119.55	51.15	35.64	-92.39	2,024.76	-4,752.88	3,251.04	3,170.65	80.39	40.443		
8,300.00	6,027.00	7,763.00	6,119.32	52.48	36.77	-92.39	2,111.61	-4,757.86	3,256.73	3,173.60	83.13	39.177		
8,400.00	6,027.00	7,824.18	6,119.21	53.85	37.57	-92.38	2,172.65	-4,762.11	3,263.50	3,177.87	85.63	38.112		
8,500.00	6,027.00	7,903.18	6,119.07	55.24	38.63	-92.37	2,251.42	-4,768.01	3,270.93	3,182.58	88.35	37.022		
8,600.00	6,027.00	8,237.63	6,118.16	56.65	43.37	-92.35	2,585.46	-4,781.15	3,274.15	3,180.04	94.11	34.790		
8,700.00	6,027.00	8,290.00	6,117.93	58.08	44.14	-92.34	2,637.82	-4,781.95	3,275.57	3,178.92	96.65	33.890		
8,800.00	6,027.00	8,461.86	6,117.20	59.54	46.72	-92.33	2,809.66	-4,784.82	3,277.68	3,177.05	100.63	32.571		
8,804.45	6,027.00	8,431.42	6,117.34	59.60	46.26	-92.33	2,779.21	-4,784.48	3,277.49	3,177.13	100.36	32.657		
8,900.00	6,027.00	8,521.75	6,116.87	61.01	47.63	-92.32	2,869.54	-4,785.08	3,278.10	3,174.78	103.32	31.729		
9,000.00	6,027.00	8,602.12	6,116.60	62.50	48.87	-92.32	2,949.90	-4,786.44	3,279.70	3,173.44	106.26	30.865		
9,100.00	6,027.00	8,784.74	6,116.11	64.01	51.71	-92.31	3,132.51	-4,787.11	3,279.96	3,169.50	110.47	29.691		
9,200.00	6,027.00	8,961.68	6,115.48	65.53	54.51	-92.30	3,309.41	-4,783.66	3,277.99	3,163.39	114.60	28.604		
9,300.00	6,027.00	9,078.94	6,114.89	67.06	56.39	-92.29	3,426.60	-4,779.58	3,274.46	3,156.42	118.04	27.739		
9,400.00	6,027.00	9,169.00	6,114.24	68.61	57.84	-92.28	3,516.59	-4,776.30	3,270.78	3,149.59	121.20	26.987		
9,500.00	6,027.00	9,222.15	6,113.81	70.17	58.70	-92.28	3,569.72	-4,774.82	3,268.02	3,144.09	123.93	26.370		
9,599.29	6,027.00	9,257.00	6,113.53	71.72	59.26	-92.27	3,604.57	-4,774.35	3,266.90	3,140.49	126.41	25.844		
9,600.00	6,027.00	9,257.00	6,113.53	71.73	59.26	-92.27	3,604.57	-4,774.35	3,266.90	3,140.47	126.42	25.841		
9,700.00	6,027.00	9,311.01	6,113.12	73.31	60.14	-92.27	3,658.57	-4,774.53	3,267.38	3,138.24	129.14	25.301		
9,800.00	6,027.00	9,346.00	6,112.89	74.90	60.71	-92.26	3,693.55	-4,775.31	3,269.72	3,138.14	131.58	24.849		
9,900.00	6,027.00	9,433.00	6,112.39	76.50	62.13	-92.25	3,780.50	-4,778.36	3,273.20	3,138.47	134.73	24.294		
10,000.00	6,027.00	9,591.71	6,111.82	78.10	64.73	-92.24	3,939.11	-4,783.80	3,276.87	3,137.98	138.89	23.593		
10,100.00	6,027.00	9,695.00	6,111.30	79.71	66.43	-92.23	4,042.39	-4,785.48	3,278.44	3,136.15	142.29	23.040		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	6,027.00	9,763.45	6,110.83	81.33	67.56	-92.22	4,110.82	-4,786.98	3,280.67	3,135.45	145.22	22.591		
10,300.00	6,027.00	9,844.08	6,110.33	82.96	68.90	-92.21	4,191.40	-4,789.69	3,283.95	3,135.63	148.32	22.141		
10,400.00	6,027.00	9,917.59	6,109.80	84.59	70.12	-92.19	4,264.85	-4,792.50	3,287.74	3,136.42	151.32	21.727		
10,500.00	6,027.00	9,986.58	6,109.23	86.23	71.27	-92.18	4,333.76	-4,795.83	3,292.51	3,138.26	154.25	21.346		
10,600.00	6,027.00	10,072.12	6,108.69	87.87	72.70	-92.17	4,419.16	-4,800.67	3,298.09	3,140.66	157.43	20.950		
10,700.00	6,027.00	10,490.00	6,106.39	89.52	79.72	-92.13	4,836.18	-4,801.47	3,296.06	3,130.99	165.07	19.968		
10,800.00	6,027.00	10,490.00	6,106.39	91.17	79.72	-92.13	4,836.18	-4,801.47	3,293.61	3,126.33	167.27	19.690		
10,863.96	6,027.00	10,520.11	6,106.22	92.23	80.23	-92.13	4,866.29	-4,801.20	3,293.18	3,124.16	169.02	19.484		
10,900.00	6,027.00	10,531.22	6,106.14	92.83	80.42	-92.13	4,877.39	-4,801.26	3,293.35	3,123.43	169.92	19.382		
11,000.00	6,027.00	10,577.00	6,105.76	94.49	81.19	-92.12	4,923.16	-4,802.38	3,295.36	3,122.77	172.58	19.094		
11,100.00	6,027.00	10,710.15	6,104.87	96.16	83.46	-92.10	5,056.25	-4,805.89	3,298.14	3,121.65	176.48	18.688		
11,200.00	6,027.00	10,871.87	6,104.08	97.83	86.21	-92.09	5,217.96	-4,806.49	3,298.33	3,117.59	180.75	18.248		
11,268.83	6,027.00	10,928.00	6,103.72	98.98	87.17	-92.08	5,274.10	-4,806.40	3,298.20	3,115.25	182.94	18.028		
11,300.00	6,027.00	10,928.00	6,103.72	99.50	87.17	-92.08	5,274.10	-4,806.40	3,298.34	3,114.75	183.60	17.965		
11,400.00	6,027.00	10,979.68	6,103.44	101.18	88.05	-92.07	5,325.77	-4,807.04	3,299.77	3,113.42	186.36	17.707		
11,500.00	6,027.00	11,016.00	6,103.30	102.86	88.67	-92.07	5,362.07	-4,808.24	3,303.11	3,114.26	188.84	17.491		
11,600.00	6,027.00	11,065.14	6,103.11	104.54	89.51	-92.07	5,411.14	-4,810.71	3,308.15	3,116.67	191.48	17.277		
11,700.00	6,027.00	11,103.00	6,102.91	106.23	90.16	-92.06	5,448.92	-4,813.20	3,314.86	3,120.98	193.88	17.098		
11,800.00	6,027.00	11,145.67	6,102.64	107.92	90.89	-92.06	5,491.44	-4,816.78	3,323.34	3,127.03	196.31	16.929		
11,900.00	6,027.00	11,191.00	6,102.34	109.61	91.67	-92.05	5,536.51	-4,821.62	3,333.76	3,135.03	198.73	16.775		
12,000.00	6,027.00	11,803.00	6,099.72	111.31	102.17	-91.99	6,146.16	-4,840.23	3,334.66	3,124.72	209.94	15.884		
12,100.00	6,027.00	11,852.21	6,099.44	113.00	103.02	-91.99	6,195.33	-4,838.15	3,330.80	3,117.97	212.83	15.650		
12,200.00	6,027.00	11,892.00	6,099.16	114.71	103.70	-91.98	6,235.11	-4,837.60	3,329.15	3,113.58	215.56	15.444		
12,229.80	6,027.00	11,892.00	6,099.16	115.21	103.70	-91.98	6,235.11	-4,837.60	3,329.01	3,112.80	216.21	15.397		
12,300.00	6,027.00	11,921.43	6,098.96	116.41	104.21	-91.98	6,264.54	-4,837.77	3,329.42	3,111.32	218.09	15.266		
12,400.00	6,027.00	11,980.00	6,098.62	118.11	105.23	-91.97	6,323.09	-4,839.32	3,331.71	3,110.74	220.97	15.078		
12,500.00	6,027.00	12,006.52	6,098.49	119.82	105.69	-91.97	6,349.58	-4,840.48	3,335.48	3,112.17	223.31	14.937		
12,600.00	6,027.00	12,067.00	6,098.22	121.53	106.74	-91.96	6,409.97	-4,843.79	3,340.84	3,114.71	226.13	14.774		
12,700.00	6,027.00	12,596.00	6,096.49	123.24	115.88	-91.94	6,938.16	-4,835.59	3,334.91	3,099.81	235.10	14.185		
12,800.00	6,027.00	12,683.00	6,096.31	124.95	117.38	-91.94	7,024.95	-4,829.69	3,328.10	3,089.67	238.44	13.958		
12,900.00	6,027.00	12,730.89	6,096.20	126.66	118.20	-91.94	7,072.77	-4,827.10	3,322.47	3,081.04	241.42	13.762		
13,000.00	6,027.00	12,772.00	6,096.12	128.38	118.91	-91.94	7,113.84	-4,825.18	3,318.09	3,073.81	244.28	13.583		
13,100.00	6,027.00	12,834.12	6,095.99	130.10	119.99	-91.94	7,175.93	-4,823.18	3,315.05	3,067.72	247.32	13.404		
13,200.00	6,027.00	12,882.50	6,095.85	131.82	120.83	-91.93	7,224.30	-4,822.56	3,313.72	3,063.55	250.17	13.246		
13,239.29	6,027.00	12,902.76	6,095.78	132.49	121.18	-91.93	7,244.56	-4,822.51	3,313.60	3,062.32	251.29	13.187		
13,300.00	6,027.00	12,947.00	6,095.64	133.54	121.95	-91.93	7,288.80	-4,822.80	3,313.92	3,060.74	253.18	13.089		
13,400.00	6,027.00	13,008.38	6,095.51	135.26	123.02	-91.93	7,350.18	-4,823.71	3,315.23	3,059.11	256.12	12.944		
13,500.00	6,027.00	13,095.95	6,095.45	136.98	124.55	-91.93	7,437.72	-4,825.38	3,317.11	3,057.67	259.44	12.786		
13,600.00	6,027.00	13,240.76	6,095.34	138.71	127.08	-91.92	7,582.52	-4,827.36	3,318.44	3,054.86	263.58	12.590		
13,700.00	6,027.00	13,322.30	6,095.35	140.43	128.50	-91.92	7,664.06	-4,828.04	3,319.28	3,052.46	266.82	12.440		
13,800.00	6,027.00	13,385.00	6,095.25	142.16	129.60	-91.92	7,726.75	-4,829.20	3,321.10	3,051.33	269.77	12.311		
13,900.00	6,027.00	13,544.38	6,094.83	143.89	132.38	-91.91	7,886.11	-4,831.31	3,322.29	3,048.15	274.14	12.119		
14,000.00	6,027.00	13,649.00	6,094.81	145.62	134.21	-91.91	7,990.72	-4,831.71	3,322.63	3,044.93	277.70	11.965		
14,100.00	6,027.00	13,733.21	6,095.10	147.35	135.68	-91.92	8,074.93	-4,832.46	3,323.49	3,042.51	280.98	11.828		
14,200.00	6,027.00	13,778.93	6,095.29	149.08	136.49	-91.92	8,120.65	-4,833.23	3,325.19	3,041.51	283.68	11.722		
14,300.00	6,027.00	13,826.00	6,095.41	150.81	137.31	-91.92	8,167.68	-4,834.86	3,328.59	3,042.26	286.33	11.625		
14,400.00	6,027.00	13,914.00	6,095.34	152.54	138.85	-91.92	8,255.60	-4,838.72	3,332.94	3,043.30	289.64	11.507		
14,500.00	6,027.00	14,251.17	6,094.47	154.28	144.76	-91.90	8,592.56	-4,844.99	3,336.88	3,040.35	296.53	11.253		
14,600.00	6,027.00	14,324.28	6,094.49	156.01	146.04	-91.90	8,665.65	-4,842.86	3,334.14	3,034.43	299.72	11.124		
14,692.10	6,027.00	14,356.00	6,094.39	157.61	146.59	-91.90	8,697.36	-4,842.50	3,333.23	3,031.05	302.18	11.031		
14,700.00	6,027.00	14,356.00	6,094.39	157.75	146.59	-91.90	8,697.36	-4,842.50	3,333.24	3,030.89	302.35	11.024		
14,800.00	6,027.00	14,356.00	6,094.39	159.49	146.59	-91.90	8,697.36	-4,842.50	3,334.98	3,030.61	304.36	10.957 ES		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,900.00	6,027.00	14,444.00	6,094.27	161.22	148.14	-91.89	8,785.29	-4,845.48	3,338.34	3,030.66	307.68	10.850	
15,000.00	6,027.00	14,444.00	6,094.27	162.96	148.14	-91.89	8,785.29	-4,845.48	3,343.43	3,034.03	309.39	10.806	
15,100.00	6,027.00	14,444.00	6,094.27	164.70	148.14	-91.89	8,785.29	-4,845.48	3,351.49	3,040.66	310.83	10.782	
15,200.00	6,027.00	14,799.00	6,094.70	166.44	154.39	-91.89	9,138.95	-4,871.07	3,362.35	3,043.20	319.15	10.535	
15,300.00	6,027.00	14,886.00	6,094.89	168.18	155.92	-91.89	9,225.92	-4,873.06	3,364.61	3,042.14	322.47	10.434	
15,400.00	6,027.00	14,933.27	6,095.05	169.93	156.75	-91.89	9,273.15	-4,874.95	3,368.16	3,043.03	325.13	10.359	
15,500.00	6,027.00	15,031.82	6,095.25	171.67	158.49	-91.89	9,371.63	-4,878.79	3,372.03	3,043.40	328.63	10.261	
15,600.00	6,027.00	15,132.20	6,095.30	173.41	160.26	-91.89	9,471.93	-4,882.82	3,376.03	3,043.87	332.16	10.164	
15,700.00	6,027.00	15,281.75	6,095.14	175.15	162.90	-91.89	9,621.40	-4,887.78	3,379.36	3,042.86	336.50	10.043	
15,800.00	6,027.00	15,472.13	6,094.71	176.90	166.25	-91.88	9,811.75	-4,889.73	3,380.21	3,038.89	341.33	9.903	
15,855.86	6,027.00	15,519.68	6,094.51	177.87	167.09	-91.87	9,859.31	-4,889.64	3,380.10	3,036.92	343.18	9.849	
15,900.00	6,027.00	15,545.09	6,094.40	178.64	167.53	-91.87	9,884.71	-4,889.73	3,380.25	3,035.77	344.48	9.813	
16,000.00	6,027.00	15,589.00	6,094.23	180.39	168.31	-91.87	9,928.62	-4,890.23	3,381.53	3,034.36	347.17	9.740	
16,100.00	6,027.00	15,678.00	6,093.94	182.13	169.88	-91.86	10,017.59	-4,892.33	3,383.87	3,033.34	350.53	9.654	
16,200.00	6,027.00	15,728.70	6,093.75	183.88	170.77	-91.86	10,068.26	-4,894.15	3,387.31	3,034.08	353.23	9.589	
16,300.00	6,027.00	15,797.79	6,093.37	185.63	171.99	-91.85	10,137.28	-4,897.36	3,391.88	3,035.68	356.21	9.522	
16,400.00	6,027.00	15,887.40	6,093.16	187.38	173.58	-91.84	10,226.76	-4,902.04	3,397.06	3,037.51	359.55	9.448	
16,500.00	6,027.00	16,019.41	6,092.70	189.12	175.92	-91.83	10,358.61	-4,908.59	3,402.04	3,038.37	363.68	9.355	
16,600.00	6,027.00	16,141.44	6,092.27	190.87	178.07	-91.82	10,480.54	-4,913.43	3,405.96	3,038.37	367.60	9.266	
16,700.00	6,027.00	16,154.00	6,092.23	192.62	178.30	-91.82	10,493.09	-4,913.90	3,410.74	3,041.24	369.51	9.231	
16,795.97	6,027.00	16,154.00	6,092.23	194.30	178.30	-91.82	10,493.09	-4,913.90	3,418.06	3,047.22	370.84	9.217 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	17.00	17.00	0.27	0.00	-83.24	662.22	-5,587.22	5,626.45	5,626.17	0.28	N/A		
200.00	200.00	85.90	85.90	0.63	0.25	-83.24	662.22	-5,587.64	5,627.17	5,626.29	0.88	6,421.221		
300.00	300.00	146.37	146.36	0.99	0.47	-83.24	662.21	-5,588.68	5,628.82	5,627.37	1.45	3,877.803		
400.00	400.00	278.32	278.28	1.34	0.94	-83.25	661.64	-5,590.95	5,630.48	5,628.20	2.28	2,468.067		
500.00	500.00	414.53	414.48	1.70	1.42	-83.26	660.53	-5,592.09	5,631.12	5,627.99	3.12	1,801.975		
600.00	600.00	527.32	527.27	2.06	1.83	-83.27	659.60	-5,593.14	5,631.97	5,628.08	3.89	1,449.338		
700.00	700.00	663.97	663.91	2.42	2.31	-83.29	658.30	-5,593.38	5,631.99	5,627.27	4.73	1,191.421		
800.00	800.00	765.41	765.35	2.78	2.67	-83.30	657.42	-5,593.29	5,631.80	5,626.36	5.44	1,034.723		
897.02	897.02	852.08	852.02	3.13	2.97	-83.30	656.60	-5,593.28	5,631.69	5,625.59	6.10	923.819		
900.00	900.00	854.51	854.44	3.14	2.98	-83.30	656.59	-5,593.28	5,631.69	5,625.57	6.12	920.920		
1,000.00	999.98	950.91	950.85	3.49	3.31	5.96	656.52	-5,593.43	5,630.09	5,623.30	6.80	828.133		
1,100.00	1,099.84	1,058.94	1,058.87	3.83	3.68	5.98	657.04	-5,593.27	5,624.79	5,617.29	7.51	749.209		
1,200.00	1,199.45	1,162.08	1,162.01	4.19	4.03	6.01	657.70	-5,593.13	5,616.06	5,607.86	8.20	684.515		
1,300.00	1,298.70	1,262.09	1,262.02	4.55	4.37	6.06	658.20	-5,592.91	5,603.79	5,594.89	8.90	629.962		
1,400.00	1,397.47	1,355.00	1,354.93	4.94	4.68	6.11	658.52	-5,592.78	5,588.13	5,578.57	9.57	584.102		
1,500.00	1,495.62	1,447.81	1,447.74	5.34	5.00	6.18	658.93	-5,592.74	5,569.17	5,558.92	10.24	543.645		
1,600.00	1,593.06	1,554.31	1,554.23	5.78	5.38	6.26	659.47	-5,592.64	5,546.77	5,535.80	10.97	505.520		
1,700.00	1,689.64	1,597.94	1,597.87	6.24	5.53	6.33	659.79	-5,592.74	5,521.36	5,509.88	11.49	480.656		
1,800.00	1,785.27	1,638.53	1,638.45	6.75	5.67	6.41	660.10	-5,593.26	5,493.59	5,481.60	12.00	457.851		
1,900.00	1,880.44	1,687.00	1,686.90	7.30	5.84	6.43	660.49	-5,594.41	5,465.32	5,452.79	12.53	436.126		
2,000.00	1,975.60	1,715.25	1,715.14	7.86	5.94	6.44	660.79	-5,595.37	5,438.02	5,425.02	13.00	418.279		
2,100.00	2,070.77	1,775.00	1,774.81	8.43	6.15	6.47	661.91	-5,598.20	5,411.98	5,398.39	13.59	398.326		
2,200.00	2,165.93	1,775.00	1,774.81	9.02	6.15	6.47	661.91	-5,598.20	5,386.75	5,372.78	13.97	385.680		
2,300.00	2,261.10	1,829.94	1,829.62	9.62	6.35	6.51	663.40	-5,601.63	5,362.63	5,348.08	14.54	368.692		
2,400.00	2,356.26	1,863.00	1,862.57	10.23	6.47	6.53	664.45	-5,604.04	5,339.55	5,324.50	15.05	354.809		
2,500.00	2,451.43	1,922.96	1,922.29	10.84	6.68	6.57	666.68	-5,608.92	5,317.35	5,301.70	15.65	339.726		
2,600.00	2,546.59	1,972.57	1,971.65	11.46	6.86	6.61	668.80	-5,613.43	5,296.07	5,279.84	16.22	326.486		
2,700.00	2,641.76	2,038.00	2,036.69	12.09	7.10	6.65	671.50	-5,620.07	5,275.71	5,258.86	16.85	313.098		
2,800.00	2,736.92	2,087.08	2,085.45	12.72	7.28	6.68	672.87	-5,625.52	5,256.06	5,238.64	17.42	301.686		
2,900.00	2,832.09	2,152.52	2,150.42	13.35	7.53	6.69	672.96	-5,633.29	5,237.01	5,218.95	18.06	290.055		
3,000.00	2,927.25	2,214.00	2,211.36	13.99	7.76	6.69	671.38	-5,641.27	5,218.66	5,199.98	18.68	279.441		
3,100.00	3,022.42	2,254.85	2,251.76	14.63	7.91	6.68	669.55	-5,647.03	5,201.19	5,181.97	19.22	270.573		
3,200.00	3,117.58	2,302.00	2,298.26	15.27	8.09	6.66	666.82	-5,654.28	5,184.79	5,165.00	19.79	261.944		
3,300.00	3,212.75	2,345.73	2,341.28	15.91	8.26	6.63	663.73	-5,661.51	5,169.40	5,149.05	20.35	253.989		
3,400.00	3,307.91	2,391.00	2,385.69	16.56	8.44	6.59	660.00	-5,669.45	5,154.98	5,134.06	20.92	246.421		
3,500.00	3,403.08	2,391.00	2,385.69	17.20	8.44	6.59	660.00	-5,669.45	5,142.06	5,120.75	21.31	241.244		
3,600.00	3,498.24	2,479.00	2,471.53	17.85	8.80	6.52	652.28	-5,687.19	5,130.17	5,108.13	22.05	232.712		
3,700.00	3,593.41	2,479.00	2,471.53	18.50	8.80	6.52	652.28	-5,687.19	5,119.40	5,096.96	22.44	228.172		
3,800.00	3,688.57	2,479.00	2,471.53	19.15	8.80	6.52	652.28	-5,687.19	5,110.56	5,087.73	22.82	223.923		
3,900.00	3,783.74	2,525.11	2,516.15	19.81	9.00	6.48	648.33	-5,698.10	5,102.77	5,079.38	23.39	218.158		
4,000.00	3,878.90	2,567.00	2,556.41	20.46	9.19	6.44	644.88	-5,709.15	5,096.84	5,072.90	23.94	212.902		
4,100.00	3,974.07	2,567.00	2,556.41	21.11	9.19	6.44	644.88	-5,709.15	5,092.13	5,067.82	24.31	209.436		
4,200.00	4,069.23	2,607.39	2,595.00	21.77	9.38	6.40	641.58	-5,720.63	5,088.91	5,064.05	24.85	204.758		
4,300.00	4,164.40	2,655.00	2,640.22	22.42	9.60	6.36	637.60	-5,734.96	5,087.07	5,061.65	25.42	200.107		
4,400.00	4,259.56	2,863.85	2,838.06	23.08	10.67	6.06	611.91	-5,796.60	5,084.55	5,057.84	26.71	190.336		
4,500.00	4,354.73	2,920.00	2,891.21	23.74	10.96	5.97	603.77	-5,812.80	5,081.24	5,053.91	27.34	185.872		
4,600.00	4,449.89	2,983.58	2,951.32	24.39	11.31	5.87	595.03	-5,831.57	5,078.72	5,050.73	28.00	181.402		
4,700.00	4,545.06	3,041.50	3,006.04	25.05	11.63	5.79	587.91	-5,849.16	5,077.14	5,048.51	28.63	177.337		
4,800.00	4,640.22	3,098.00	3,059.47	25.71	11.95	5.72	582.14	-5,866.61	5,076.32	5,047.07	29.26	173.519		
4,846.08	4,684.07	3,127.57	3,087.43	26.01	12.12	5.69	579.57	-5,875.87	5,076.22	5,046.66	29.56	171.735		
4,900.00	4,735.39	3,155.92	3,114.23	26.37	12.29	5.66	577.34	-5,884.87	5,076.36	5,046.47	29.88	169.870		
5,000.00	4,830.55	3,250.11	3,203.15	27.03	12.84	5.58	570.67	-5,915.19	5,077.15	5,046.46	30.69	165.455		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,925.72	3,405.37	3,349.76	27.69	13.77	5.42	556.65	-5,964.32	5,077.22	5,045.43	31.79	159.706		
5,200.00	5,020.88	3,668.56	3,598.19	28.35	15.38	5.00	520.23	-6,042.99	5,075.19	5,041.74	33.45	151.746		
5,300.00	5,116.05	3,777.57	3,701.13	29.01	16.06	4.79	502.16	-6,073.98	5,071.54	5,037.19	34.36	147.611		
5,400.00	5,211.21	3,854.54	3,773.87	29.67	16.54	4.65	489.68	-6,095.83	5,067.95	5,032.83	35.11	144.334		
5,500.00	5,306.38	3,916.91	3,832.83	30.33	16.93	4.54	480.29	-6,113.89	5,065.01	5,029.22	35.79	141.507		
5,600.00	5,401.54	3,977.00	3,889.63	30.99	17.31	4.45	472.14	-6,131.71	5,062.91	5,026.45	36.46	138.861		
5,700.00	5,496.71	4,032.55	3,942.12	31.65	17.66	0.21	465.42	-6,148.59	5,061.64	5,024.54	37.10	136.438		
5,800.00	5,591.13	4,103.17	4,008.84	32.30	18.12	-27.11	457.90	-6,170.50	5,060.20	5,022.42	37.78	133.934		
5,900.00	5,682.22	4,180.07	4,081.52	32.92	18.62	-44.54	450.55	-6,194.50	5,057.79	5,019.34	38.45	131.527		
6,000.00	5,767.23	4,242.00	4,140.07	33.50	19.02	-54.81	445.52	-6,214.07	5,054.92	5,015.88	39.04	129.491		
6,100.00	5,843.56	4,297.54	4,192.55	34.04	19.38	-61.23	441.60	-6,231.83	5,052.00	5,012.39	39.61	127.545		
6,200.00	5,908.90	4,367.23	4,258.38	34.53	19.83	-65.65	437.15	-6,254.25	5,049.41	5,009.09	40.32	125.235		
6,300.00	5,961.25	4,419.00	4,307.37	34.99	20.17	-68.59	434.04	-6,270.70	5,047.31	5,006.27	41.04	122.972		
6,400.00	5,999.04	4,456.31	4,342.68	35.42	20.41	-70.43	431.99	-6,282.55	5,046.45	5,004.62	41.82	120.658		
6,404.45	6,000.37	4,457.10	4,343.44	35.43	20.41	-70.48	431.95	-6,282.80	5,046.45	5,004.59	41.86	120.558 CC, ES		
6,500.00	6,021.11	4,468.84	4,354.54	35.83	20.49	-71.21	431.37	-6,286.55	5,047.25	5,004.64	42.62	118.434		
6,600.00	6,027.00	4,469.79	4,355.45	36.24	20.50	-71.20	431.32	-6,286.86	5,049.79	5,006.32	43.47	116.166		
6,700.00	6,027.00	4,466.39	4,352.23	36.68	20.47	-71.16	431.49	-6,285.77	5,054.22	5,009.79	44.43	113.762		
6,800.00	6,027.00	4,462.89	4,348.91	37.20	20.45	-71.12	431.66	-6,284.65	5,060.61	5,015.11	45.50	111.217		
6,900.00	6,027.00	4,459.28	4,345.49	37.80	20.43	-71.08	431.84	-6,283.49	5,068.97	5,022.29	46.68	108.597		
7,000.00	6,027.00	4,455.55	4,341.97	38.47	20.40	-71.04	432.03	-6,282.30	5,079.27	5,031.34	47.94	105.958		
7,100.00	6,027.00	4,451.71	4,338.33	39.21	20.38	-70.99	432.23	-6,281.08	5,091.52	5,042.25	49.27	103.345		
7,200.00	6,027.00	4,447.74	4,334.58	40.02	20.35	-70.95	432.44	-6,279.82	5,105.69	5,055.04	50.66	100.792		
7,300.00	6,027.00	4,443.64	4,330.70	40.89	20.33	-70.90	432.65	-6,278.51	5,121.78	5,069.69	52.09	98.324		
7,400.00	6,027.00	4,439.41	4,326.69	41.83	20.30	-70.85	432.88	-6,277.17	5,139.75	5,086.19	53.56	95.960		
7,500.00	6,027.00	4,435.03	4,322.55	42.83	20.27	-70.80	433.12	-6,275.78	5,159.60	5,104.54	55.06	93.710		
7,600.00	6,027.00	4,430.51	4,318.26	43.88	20.24	-70.75	433.38	-6,274.34	5,181.29	5,124.71	56.58	91.580		
7,700.00	6,027.00	4,435.78	4,323.26	44.99	20.28	-70.81	433.06	-6,275.99	5,204.80	5,146.64	58.16	89.491		
7,800.00	6,027.00	4,423.81	4,311.92	46.14	20.20	-70.68	433.76	-6,272.22	5,230.13	5,170.48	59.66	87.672		
7,900.00	6,027.00	4,411.57	4,300.33	47.33	20.12	-70.54	434.48	-6,268.36	5,257.23	5,196.08	61.15	85.972		
8,000.00	6,027.00	4,399.07	4,288.50	48.57	20.04	-70.40	435.22	-6,264.40	5,286.07	5,223.43	62.64	84.390		
8,100.00	6,027.00	4,386.29	4,276.41	49.84	19.95	-70.25	435.99	-6,260.33	5,316.61	5,252.50	64.12	82.921		
8,200.00	6,027.00	8,230.92	6,103.12	51.15	44.92	-91.30	2,523.86	-6,844.86	5,345.97	5,261.04	84.93	62.943		
8,300.00	6,027.00	8,291.00	6,103.30	52.48	45.70	-91.30	2,583.84	-6,841.34	5,340.21	5,252.64	87.57	60.979		
8,400.00	6,027.00	8,331.70	6,103.39	53.85	46.24	-91.30	2,624.49	-6,839.34	5,335.43	5,245.33	90.09	59.220		
8,500.00	6,027.00	8,379.00	6,103.43	55.24	46.88	-91.31	2,671.76	-6,837.85	5,332.03	5,239.34	92.69	57.526		
8,600.00	6,027.00	8,410.93	6,103.43	56.65	47.33	-91.31	2,703.69	-6,837.22	5,329.68	5,234.51	95.18	55.997		
8,700.00	6,027.00	8,478.17	6,103.40	58.08	48.27	-91.31	2,770.92	-6,836.22	5,328.16	5,230.17	97.99	54.376		
8,800.00	6,027.00	8,554.00	6,103.27	59.54	49.35	-91.30	2,846.74	-6,835.36	5,327.04	5,226.15	100.90	52.797		
8,900.00	6,027.00	8,641.00	6,103.05	61.01	50.60	-91.30	2,933.74	-6,834.80	5,326.38	5,222.44	103.93	51.249		
8,948.45	6,027.00	8,660.24	6,103.00	61.73	50.89	-91.30	2,952.98	-6,834.78	5,326.27	5,221.07	105.20	50.628		
9,000.00	6,027.00	8,689.17	6,102.94	62.50	51.31	-91.30	2,981.91	-6,834.85	5,326.38	5,219.75	106.63	49.950		
9,100.00	6,027.00	8,748.09	6,102.87	64.01	52.19	-91.30	3,040.83	-6,835.37	5,327.22	5,217.77	109.45	48.675		
9,200.00	6,027.00	8,817.00	6,102.79	65.53	53.23	-91.30	3,109.73	-6,836.45	5,328.75	5,216.38	112.36	47.424		
9,300.00	6,027.00	8,907.00	6,102.65	67.06	54.60	-91.30	3,199.71	-6,838.12	5,330.59	5,215.09	115.50	46.151		
9,400.00	6,027.00	8,957.02	6,102.57	68.61	55.37	-91.30	3,249.72	-6,839.31	5,332.98	5,214.72	118.27	45.093		
9,500.00	6,027.00	8,994.00	6,102.54	70.17	55.94	-91.30	3,286.68	-6,840.55	5,336.42	5,215.52	120.89	44.141		
9,600.00	6,027.00	9,082.00	6,102.61	71.73	57.32	-91.30	3,374.60	-6,844.20	5,340.55	5,216.50	124.06	43.050		
9,700.00	6,027.00	9,211.60	6,103.08	73.31	59.37	-91.30	3,504.10	-6,849.23	5,344.37	5,216.71	127.66	41.863		
9,800.00	6,027.00	9,280.90	6,103.16	74.90	60.47	-91.30	3,573.35	-6,852.02	5,348.39	5,217.73	130.66	40.935		
9,900.00	6,027.00	9,346.00	6,103.20	76.50	61.52	-91.30	3,638.37	-6,855.09	5,353.07	5,219.46	133.61	40.065		
10,000.00	6,027.00	9,871.00	6,103.42	78.10	69.95	-91.30	4,162.93	-6,863.16	5,356.73	5,215.55	141.18	37.942		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	6,027.00	9,958.00	6,103.40	79.71	71.34	-91.30	4,249.90	-6,860.79	5,353.97	5,209.57	144.41	37.075		
10,200.00	6,027.00	10,046.00	6,103.33	81.33	72.76	-91.30	4,337.87	-6,858.54	5,351.39	5,203.74	147.65	36.243		
10,300.00	6,027.00	10,046.00	6,103.33	82.96	72.76	-91.30	4,337.87	-6,858.54	5,349.84	5,199.76	150.07	35.648		
10,371.47	6,027.00	10,085.12	6,103.34	84.12	73.40	-91.30	4,376.99	-6,858.07	5,349.26	5,197.10	152.17	35.154		
10,400.00	6,027.00	10,091.82	6,103.34	84.59	73.51	-91.30	4,383.68	-6,858.09	5,349.32	5,196.40	152.91	34.982		
10,500.00	6,027.00	10,135.00	6,103.38	86.23	74.21	-91.30	4,426.86	-6,858.84	5,350.58	5,194.86	155.72	34.360		
10,600.00	6,027.00	10,135.00	6,103.38	87.87	74.21	-91.30	4,426.86	-6,858.84	5,352.97	5,194.92	158.06	33.867		
10,700.00	6,027.00	10,182.62	6,103.41	89.52	75.01	-91.30	4,474.44	-6,860.59	5,356.72	5,195.83	160.88	33.296		
10,800.00	6,027.00	10,436.48	6,103.66	91.17	79.25	-91.30	4,728.15	-6,868.51	5,360.18	5,194.22	165.95	32.299		
10,900.00	6,027.00	10,488.84	6,103.68	92.83	80.12	-91.30	4,780.51	-6,869.51	5,362.06	5,193.19	168.87	31.753		
11,000.00	6,027.00	10,927.00	6,104.29	94.49	87.37	-91.31	5,218.46	-6,862.43	5,357.72	5,182.17	175.55	30.520		
11,100.00	6,027.00	10,965.77	6,104.18	96.16	88.01	-91.31	5,257.20	-6,860.89	5,354.08	5,175.67	178.42	30.009		
11,200.00	6,027.00	11,014.00	6,103.91	97.83	88.81	-91.31	5,305.42	-6,860.22	5,352.18	5,170.82	181.36	29.512		
11,300.00	6,027.00	11,014.00	6,103.91	99.50	88.81	-91.31	5,305.42	-6,860.22	5,351.23	5,167.42	183.81	29.113		
11,304.45	6,027.00	11,014.00	6,103.91	99.57	88.81	-91.31	5,305.42	-6,860.22	5,351.23	5,167.31	183.92	29.096		
11,400.00	6,027.00	11,014.00	6,103.91	101.18	88.81	-91.31	5,305.42	-6,860.22	5,352.15	5,165.95	186.21	28.743		
11,500.00	6,027.00	11,067.29	6,103.59	102.86	89.71	-91.30	5,358.70	-6,860.97	5,353.96	5,164.81	189.15	28.306		
11,600.00	6,027.00	11,102.00	6,103.44	104.54	90.30	-91.30	5,393.39	-6,862.24	5,357.39	5,165.53	191.86	27.923		
11,700.00	6,027.00	11,714.00	6,102.10	106.23	100.65	-91.29	6,004.54	-6,862.67	5,361.87	5,161.55	200.32	26.766		
11,800.00	6,027.00	11,776.28	6,102.00	107.92	101.69	-91.29	6,066.72	-6,859.20	5,356.41	5,152.96	203.45	26.328		
11,900.00	6,027.00	12,066.00	6,101.51	109.61	106.50	-91.28	6,355.71	-6,840.29	5,350.05	5,141.74	208.31	25.683		
12,000.00	6,027.00	12,123.38	6,101.72	111.31	107.45	-91.29	6,412.87	-6,835.26	5,341.59	5,130.16	211.44	25.263		
12,100.00	6,027.00	12,155.00	6,101.82	113.00	107.97	-91.29	6,444.41	-6,833.05	5,334.59	5,120.23	214.36	24.886		
12,200.00	6,027.00	12,155.00	6,101.82	114.71	107.97	-91.29	6,444.41	-6,833.05	5,329.16	5,112.15	217.01	24.558		
12,300.00	6,027.00	12,198.07	6,101.93	116.41	108.70	-91.29	6,487.42	-6,830.94	5,324.79	5,104.82	219.97	24.207		
12,400.00	6,027.00	12,241.00	6,101.96	118.11	109.42	-91.29	6,530.35	-6,830.11	5,322.30	5,099.39	222.91	23.876		
12,500.00	6,027.00	12,241.00	6,101.96	119.82	109.42	-91.29	6,530.35	-6,830.11	5,320.88	5,095.46	225.41	23.605		
12,525.50	6,027.00	12,241.00	6,101.96	120.25	109.42	-91.29	6,530.35	-6,830.11	5,320.82	5,094.78	226.04	23.539		
12,600.00	6,027.00	12,241.00	6,101.96	121.53	109.42	-91.29	6,530.35	-6,830.11	5,321.34	5,093.50	227.84	23.355		
12,700.00	6,027.00	12,296.03	6,102.03	123.24	110.37	-91.29	6,585.37	-6,830.60	5,322.64	5,091.82	230.83	23.059		
12,800.00	6,027.00	12,330.00	6,102.15	124.95	110.96	-91.29	6,619.32	-6,831.66	5,325.58	5,092.03	233.55	22.803		
12,900.00	6,027.00	12,410.75	6,102.46	126.66	112.36	-91.30	6,700.01	-6,834.80	5,329.43	5,092.62	236.81	22.505		
13,000.00	6,027.00	12,489.09	6,102.83	128.38	113.73	-91.30	6,778.29	-6,837.96	5,333.45	5,093.41	240.04	22.219		
13,100.00	6,027.00	12,553.96	6,103.28	130.10	114.86	-91.30	6,843.09	-6,840.91	5,338.01	5,094.90	243.10	21.958		
13,200.00	6,027.00	12,616.29	6,103.58	131.82	115.95	-91.31	6,905.34	-6,844.20	5,343.27	5,097.15	246.12	21.710		
13,300.00	6,027.00	13,208.00	6,103.92	133.54	126.20	-91.31	7,496.57	-6,853.55	5,347.53	5,092.65	254.88	20.980		
13,400.00	6,027.00	13,208.00	6,103.92	135.26	126.20	-91.31	7,496.57	-6,853.55	5,344.88	5,087.41	257.47	20.760		
13,491.73	6,027.00	13,208.00	6,103.92	136.84	126.20	-91.31	7,496.57	-6,853.55	5,344.09	5,084.33	259.76	20.573		
13,500.00	6,027.00	13,208.00	6,103.92	136.98	126.20	-91.31	7,496.57	-6,853.55	5,344.10	5,084.13	259.97	20.557		
13,557.48	6,027.00	13,247.36	6,103.95	137.97	126.88	-91.31	7,535.92	-6,852.60	5,343.21	5,081.42	261.79	20.410		
13,600.00	6,027.00	13,252.14	6,103.95	138.71	126.96	-91.31	7,540.69	-6,852.64	5,343.57	5,080.70	262.87	20.328		
13,700.00	6,027.00	13,825.00	6,103.89	140.43	136.70	-91.31	8,110.10	-6,833.05	5,338.88	5,068.50	270.38	19.746		
13,800.00	6,027.00	13,825.00	6,103.89	142.16	136.70	-91.31	8,110.10	-6,833.05	5,332.22	5,059.06	273.16	19.520		
13,900.00	6,027.00	13,825.00	6,103.89	143.89	136.70	-91.31	8,110.10	-6,833.05	5,327.43	5,051.57	275.86	19.312		
14,000.00	6,027.00	13,825.00	6,103.89	145.62	136.70	-91.31	8,110.10	-6,833.05	5,324.52	5,046.04	278.47	19.120		
14,100.00	6,027.00	13,825.00	6,103.89	147.35	136.70	-91.31	8,110.10	-6,833.05	5,323.48	5,042.48	280.99	18.945		
14,148.18	6,027.00	13,867.93	6,103.91	148.18	137.44	-91.31	8,153.02	-6,832.07	5,322.48	5,039.86	282.62	18.832		
14,200.00	6,027.00	13,913.00	6,103.96	149.08	138.22	-91.31	8,198.07	-6,833.17	5,323.58	5,039.21	284.37	18.721		
14,300.00	6,027.00	13,913.00	6,103.96	150.81	138.22	-91.31	8,198.07	-6,833.17	5,324.65	5,037.86	286.78	18.567		
14,400.00	6,027.00	13,913.00	6,103.96	152.54	138.22	-91.31	8,198.07	-6,833.17	5,327.59	5,038.49	289.10	18.428		
14,500.00	6,027.00	13,913.00	6,103.96	154.28	138.22	-91.31	8,198.07	-6,833.17	5,332.41	5,041.09	291.32	18.304		
14,600.00	6,027.00	13,913.00	6,103.96	156.01	138.22	-91.31	8,198.07	-6,833.17	5,339.09	5,045.66	293.43	18.195		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,700.00	6,027.00	14,001.00	6,104.03	157.75	139.78	-91.31	8,285.80	-6,839.93	5,346.76	5,049.98	296.78	18.016		
14,800.00	6,027.00	14,026.00	6,104.04	159.49	140.23	-91.31	8,310.69	-6,842.24	5,355.46	5,056.30	299.17	17.901		
14,900.00	6,027.00	14,407.90	6,102.71	161.22	146.99	-91.29	8,691.82	-6,865.53	5,360.03	5,053.36	306.66	17.479		
15,000.00	6,027.00	14,472.49	6,102.39	162.96	148.12	-91.29	8,756.35	-6,868.25	5,364.25	5,054.52	309.73	17.319		
15,100.00	6,027.00	14,532.00	6,102.34	164.70	149.18	-91.29	8,815.77	-6,871.36	5,369.37	5,056.65	312.72	17.170		
15,200.00	6,027.00	14,608.64	6,102.54	166.44	150.53	-91.29	8,892.29	-6,875.80	5,375.11	5,059.18	315.93	17.014		
15,300.00	6,027.00	14,658.68	6,102.72	168.18	151.42	-91.29	8,942.22	-6,878.90	5,381.33	5,062.58	318.76	16.882		
15,400.00	6,027.00	14,946.96	6,102.72	169.93	156.53	-91.28	9,230.01	-6,895.35	5,388.32	5,063.53	324.79	16.590		
15,500.00	6,027.00	15,100.94	6,102.85	171.67	159.23	-91.28	9,383.94	-6,899.10	5,390.57	5,061.61	328.95	16.387		
15,600.00	6,027.00	15,725.47	6,103.55	173.41	170.05	-91.30	10,007.52	-6,884.14	5,389.20	5,052.27	336.93	15.995		
15,700.00	6,027.00	15,764.00	6,103.68	175.15	170.70	-91.30	10,045.97	-6,881.75	5,382.56	5,042.50	340.06	15.828		
15,800.00	6,027.00	15,764.00	6,103.68	176.90	170.70	-91.30	10,045.97	-6,881.75	5,377.15	5,034.27	342.88	15.682		
15,900.00	6,027.00	15,764.00	6,103.68	178.64	170.70	-91.30	10,045.97	-6,881.75	5,373.59	5,028.00	345.59	15.549		
16,000.00	6,027.00	15,764.00	6,103.68	180.39	170.70	-91.30	10,045.97	-6,881.75	5,371.90	5,023.71	348.19	15.428		
16,086.09	6,027.00	15,808.97	6,103.79	181.89	171.49	-91.30	10,090.93	-6,880.64	5,370.62	5,019.82	350.80	15.310		
16,100.00	6,027.00	15,810.98	6,103.80	182.13	171.52	-91.30	10,092.93	-6,880.64	5,370.64	5,019.47	351.17	15.294		
16,200.00	6,027.00	15,851.00	6,103.80	183.88	172.22	-91.30	10,132.94	-6,881.62	5,372.08	5,018.04	354.04	15.174		
16,300.00	6,027.00	15,851.00	6,103.80	185.63	172.22	-91.30	10,132.94	-6,881.62	5,374.35	5,017.96	356.39	15.080		
16,400.00	6,027.00	15,851.00	6,103.80	187.38	172.22	-91.30	10,132.94	-6,881.62	5,378.47	5,019.86	358.61	14.998		
16,500.00	6,027.00	15,851.00	6,103.80	189.12	172.22	-91.30	10,132.94	-6,881.62	5,384.46	5,023.74	360.71	14.927		
16,600.00	6,027.00	15,939.00	6,103.75	190.87	173.79	-91.30	10,220.71	-6,887.88	5,391.54	5,027.47	364.07	14.809		
16,700.00	6,027.00	16,242.00	6,103.92	192.62	179.17	-91.30	10,523.19	-6,903.64	5,396.59	5,026.16	370.42	14.569		
16,795.97	6,027.00	16,242.00	6,103.92	194.30	179.17	-91.30	10,523.19	-6,903.64	5,400.67	5,028.12	372.55	14.497 SF		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 124-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	74.32	74.32	0.27	0.12	-83.20	661.89	-5,546.99	5,586.37	5,585.99	0.38	N/A		
200.00	200.00	177.61	177.61	0.63	0.38	-83.19	662.11	-5,546.52	5,585.94	5,584.93	1.01	5,526.558		
300.00	300.00	270.36	270.36	0.99	0.71	-83.19	662.41	-5,546.22	5,585.66	5,583.96	1.70	3,287.412		
400.00	400.00	367.55	367.55	1.34	1.06	-83.19	662.48	-5,546.01	5,585.44	5,583.04	2.40	2,324.998		
500.00	500.00	473.00	473.00	1.70	1.43	-83.18	662.77	-5,545.66	5,585.15	5,582.01	3.14	1,780.567		
600.00	600.00	562.00	562.00	2.06	1.75	-83.18	662.93	-5,545.53	5,585.02	5,581.21	3.81	1,467.478		
700.00	700.00	666.75	666.75	2.42	2.11	-83.18	662.90	-5,545.51	5,585.00	5,580.47	4.53	1,234.095		
800.00	800.00	758.79	758.78	2.78	2.43	-83.18	663.00	-5,545.40	5,584.90	5,579.69	5.21	1,072.897		
823.58	823.58	780.58	780.58	2.86	2.50	-83.18	663.02	-5,545.40	5,584.89	5,579.53	5.37	1,040.929		
900.00	900.00	856.98	856.98	3.14	2.77	-83.18	662.88	-5,545.44	5,584.92	5,579.01	5.90	945.977		
1,000.00	999.98	957.82	957.82	3.49	3.12	6.08	662.91	-5,545.37	5,583.12	5,576.52	6.60	845.406		
1,100.00	1,099.84	1,052.85	1,052.84	3.83	3.44	6.09	662.81	-5,545.44	5,577.97	5,570.70	7.28	766.614		
1,200.00	1,199.45	1,144.81	1,144.81	4.19	3.76	6.12	662.77	-5,545.55	5,569.42	5,561.48	7.94	701.380		
1,300.00	1,298.70	1,244.61	1,244.60	4.55	4.11	6.16	663.15	-5,545.76	5,557.55	5,548.91	8.64	643.415		
1,400.00	1,397.47	1,344.55	1,344.55	4.94	4.45	6.22	663.33	-5,545.91	5,542.17	5,532.83	9.34	593.442		
1,500.00	1,495.62	1,450.39	1,450.38	5.34	4.82	6.28	663.51	-5,546.01	5,523.31	5,513.25	10.06	548.876		
1,600.00	1,593.06	1,544.55	1,544.54	5.78	5.15	6.36	663.68	-5,546.05	5,501.01	5,490.26	10.75	511.749		
1,700.00	1,689.64	1,636.74	1,636.74	6.24	5.47	6.45	663.86	-5,546.16	5,475.42	5,463.99	11.43	478.959		
1,800.00	1,785.27	1,763.56	1,763.55	6.75	5.91	6.56	663.53	-5,546.00	5,446.19	5,433.95	12.24	444.956		
1,900.00	1,880.44	1,832.04	1,832.03	7.30	6.15	6.59	663.73	-5,545.67	5,415.32	5,402.48	12.84	421.732		
2,000.00	1,975.60	1,863.00	1,862.99	7.86	6.26	6.60	664.01	-5,545.76	5,385.35	5,372.04	13.32	404.340		
2,100.00	2,070.77	1,951.00	1,950.97	8.43	6.57	6.64	664.95	-5,546.90	5,356.17	5,342.17	14.00	382.611		
2,200.00	2,165.93	2,045.76	2,045.72	9.02	6.90	6.68	665.16	-5,548.58	5,327.35	5,312.64	14.70	362.306		
2,300.00	2,261.10	2,205.03	2,204.97	9.62	7.46	6.73	664.17	-5,549.84	5,297.40	5,281.77	15.63	338.950		
2,400.00	2,356.26	2,253.24	2,253.17	10.23	7.63	6.76	664.82	-5,549.93	5,267.38	5,251.19	16.19	325.443		
2,500.00	2,451.43	2,430.41	2,430.30	10.84	8.24	6.82	663.38	-5,551.34	5,237.77	5,220.60	17.17	305.047		
2,600.00	2,546.59	2,479.00	2,478.89	11.46	8.41	6.84	663.69	-5,551.51	5,207.47	5,189.74	17.73	293.637		
2,700.00	2,641.76	2,655.00	2,654.86	12.09	9.03	6.91	662.81	-5,550.98	5,176.56	5,157.85	18.71	276.625		
2,800.00	2,736.92	2,700.71	2,700.57	12.72	9.19	6.93	663.28	-5,550.40	5,145.23	5,125.95	19.27	266.944		
2,900.00	2,832.09	2,744.00	2,743.85	13.35	9.34	6.95	663.29	-5,550.75	5,115.27	5,095.44	19.83	257.948		
3,000.00	2,927.25	2,881.15	2,881.00	13.99	9.82	7.01	663.33	-5,551.79	5,085.59	5,064.90	20.69	245.800		
3,100.00	3,022.42	2,983.80	2,983.65	14.63	10.17	7.06	663.30	-5,551.70	5,054.99	5,033.55	21.44	235.796		
3,200.00	3,117.58	3,102.57	3,102.42	15.27	10.59	7.11	663.26	-5,551.40	5,024.25	5,002.02	22.24	225.943		
3,300.00	3,212.75	3,185.00	3,184.84	15.91	10.87	7.14	662.33	-5,551.25	4,993.43	4,970.50	22.92	217.839		
3,400.00	3,307.91	3,274.00	3,273.78	16.56	11.18	7.14	659.15	-5,551.48	4,962.72	4,939.09	23.63	210.019		
3,500.00	3,403.08	3,347.55	3,347.15	17.20	11.44	7.11	654.20	-5,552.13	4,932.22	4,907.93	24.29	203.038		
3,600.00	3,498.24	3,443.99	3,443.11	17.85	11.78	7.04	644.75	-5,553.67	4,902.01	4,876.98	25.03	195.878		
3,700.00	3,593.41	4,385.67	4,368.73	18.50	15.34	5.66	496.65	-5,488.81	4,859.26	4,831.11	28.15	172.634		
3,800.00	3,688.57	4,420.00	4,402.39	19.15	15.47	5.63	492.44	-5,483.57	4,813.49	4,784.77	28.72	167.598		
3,900.00	3,783.74	4,460.50	4,442.13	19.81	15.64	5.58	487.16	-5,477.86	4,768.67	4,739.36	29.31	162.672		
4,000.00	3,878.90	4,507.00	4,487.82	20.46	15.82	5.52	480.70	-5,472.09	4,725.01	4,695.08	29.93	157.886		
4,100.00	3,974.07	4,507.00	4,487.82	21.11	15.82	5.52	480.70	-5,472.09	4,682.44	4,652.02	30.42	153.916		
4,200.00	4,069.23	4,547.23	4,527.38	21.77	15.99	5.46	474.66	-5,467.94	4,641.02	4,609.99	31.03	149.583		
4,300.00	4,164.40	4,596.00	4,575.33	22.42	16.19	5.38	466.63	-5,464.17	4,601.17	4,569.52	31.66	145.351		
4,400.00	4,259.56	4,596.00	4,575.33	23.08	16.19	5.38	466.63	-5,464.17	4,562.25	4,530.10	32.15	141.898		
4,500.00	4,354.73	4,596.00	4,575.33	23.74	16.19	5.38	466.63	-5,464.17	4,525.21	4,492.56	32.64	138.622		
4,600.00	4,449.89	4,683.00	4,660.71	24.39	16.55	5.20	450.33	-5,460.81	4,489.14	4,455.74	33.40	134.420		
4,700.00	4,545.06	4,683.00	4,660.71	25.05	16.55	5.20	450.33	-5,460.81	4,454.18	4,420.29	33.89	131.441		
4,800.00	4,640.22	4,749.99	4,726.31	25.71	16.83	5.04	436.79	-5,460.02	4,420.54	4,385.95	34.59	127.809		
4,900.00	4,735.39	4,860.12	4,834.09	26.37	17.29	4.77	414.17	-5,458.94	4,387.13	4,351.70	35.43	123.834		
5,000.00	4,830.55	4,933.53	4,905.87	27.03	17.61	4.58	398.84	-5,458.18	4,353.69	4,317.53	36.16	120.412		
5,100.00	4,925.72	5,254.55	5,219.53	27.69	19.02	3.75	331.98	-5,448.26	4,319.28	4,281.63	37.66	114.703		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 124-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	5,301.00	5,264.97	28.35	19.23	3.63	322.60	-5,445.91	4,282.07	4,243.76	38.32	111.758		
5,300.00	5,116.05	5,301.00	5,264.97	29.01	19.23	3.63	322.60	-5,445.91	4,246.11	4,207.28	38.83	109.340		
5,400.00	5,211.21	5,341.66	5,304.77	29.67	19.41	3.52	314.40	-5,444.75	4,211.58	4,172.10	39.47	106.692		
5,500.00	5,306.38	5,389.00	5,351.16	30.33	19.62	3.40	304.97	-5,444.51	4,178.73	4,138.59	40.13	104.118		
5,600.00	5,401.54	5,389.00	5,351.16	30.99	19.62	3.40	304.97	-5,444.51	4,147.14	4,106.50	40.64	102.053		
5,700.00	5,496.71	5,506.84	5,467.68	31.65	20.09	-1.38	289.22	-5,445.81	4,116.70	4,075.21	41.49	99.222		
5,800.00	5,591.13	5,634.93	5,595.22	32.30	20.49	-31.85	294.20	-5,444.22	4,084.53	4,042.29	42.24	96.707		
5,900.00	5,682.22	5,655.00	5,615.05	32.92	20.55	-52.05	297.29	-5,443.81	4,052.99	4,010.27	42.72	94.866		
6,000.00	5,767.23	5,696.00	5,655.28	33.50	20.65	-64.85	305.20	-5,443.52	4,023.80	3,980.59	43.22	93.111		
6,100.00	5,843.56	5,743.00	5,700.73	34.04	20.76	-73.46	317.07	-5,444.46	3,998.65	3,954.91	43.74	91.428		
6,200.00	5,908.90	5,743.00	5,700.73	34.53	20.76	-79.13	317.07	-5,444.46	3,977.57	3,933.31	44.26	89.873		
6,300.00	5,961.25	5,743.00	5,700.73	34.99	20.76	-82.87	317.07	-5,444.46	3,962.33	3,917.44	44.89	88.265		
6,400.00	5,999.04	5,779.82	5,735.60	35.42	20.83	-85.53	328.74	-5,446.19	3,952.84	3,907.15	45.69	86.519		
6,491.20	6,019.82	5,794.22	5,748.99	35.79	20.86	-86.65	333.94	-5,447.12	3,950.04	3,903.52	46.52	84.915 CC		
6,500.00	6,021.11	5,795.49	5,750.17	35.83	20.87	-86.71	334.42	-5,447.20	3,950.07	3,903.47	46.60	84.764		
6,600.00	6,027.00	5,831.00	5,782.48	36.24	20.94	-87.07	348.85	-5,450.10	3,954.23	3,906.61	47.62	83.029		
6,700.00	6,027.00	5,831.00	5,782.48	36.68	20.94	-87.07	348.85	-5,450.10	3,961.97	3,913.20	48.77	81.238		
6,800.00	6,027.00	5,831.00	5,782.48	37.20	20.94	-87.07	348.85	-5,450.10	3,972.21	3,922.17	50.04	79.375		
6,900.00	6,027.00	5,860.20	5,808.20	37.80	20.99	-87.45	362.34	-5,453.01	3,984.74	3,933.33	51.40	77.520		
7,000.00	6,027.00	6,571.69	6,098.09	38.47	23.31	-91.64	968.10	-5,502.03	3,994.37	3,941.65	52.72	75.767		
7,100.00	6,027.00	6,621.00	6,098.07	39.21	23.63	-91.64	1,017.40	-5,502.93	3,996.05	3,941.72	54.33	73.558		
7,200.00	6,027.00	6,655.12	6,098.07	40.02	23.88	-91.64	1,051.51	-5,504.05	3,999.15	3,943.14	56.01	71.406		
7,300.00	6,027.00	6,709.00	6,098.09	40.89	24.28	-91.64	1,105.32	-5,506.63	4,003.75	3,945.92	57.82	69.239		
7,400.00	6,027.00	6,795.66	6,098.12	41.83	25.02	-91.63	1,191.85	-5,511.41	4,009.20	3,949.30	59.90	66.931		
7,500.00	6,027.00	7,062.00	6,098.23	42.83	27.67	-91.63	1,458.03	-5,517.89	4,010.22	3,947.02	63.20	63.453		
7,600.00	6,027.00	7,113.42	6,098.12	43.88	28.25	-91.63	1,509.45	-5,518.04	4,011.23	3,945.89	65.34	61.389		
7,700.00	6,027.00	7,151.00	6,098.07	44.99	28.67	-91.63	1,547.00	-5,519.53	4,014.68	3,947.25	67.42	59.545		
7,800.00	6,027.00	7,151.00	6,098.07	46.14	28.67	-91.63	1,547.00	-5,519.53	4,019.86	3,950.59	69.26	58.036		
7,900.00	6,027.00	7,211.80	6,097.99	47.33	29.40	-91.63	1,607.67	-5,523.45	4,026.47	3,954.86	71.61	56.226		
8,000.00	6,027.00	7,764.00	6,097.27	48.57	36.70	-91.61	2,159.31	-5,528.33	4,023.17	3,944.84	78.33	51.360		
8,100.00	6,027.00	7,851.00	6,096.99	49.84	37.94	-91.61	2,246.25	-5,525.08	4,019.41	3,938.30	81.12	49.550		
8,200.00	6,027.00	7,885.07	6,096.87	51.15	38.44	-91.61	2,280.31	-5,524.26	4,016.81	3,933.35	83.46	48.129		
8,300.00	6,027.00	7,942.00	6,096.76	52.48	39.27	-91.61	2,337.23	-5,523.74	4,015.70	3,929.67	86.03	46.676		
8,332.11	6,027.00	7,942.00	6,096.76	52.92	39.27	-91.61	2,337.23	-5,523.74	4,015.57	3,928.88	86.69	46.322		
8,400.00	6,027.00	7,978.97	6,096.72	53.85	39.82	-91.61	2,374.20	-5,523.89	4,015.83	3,927.39	88.44	45.407		
8,500.00	6,027.00	8,031.00	6,096.62	55.24	40.60	-91.61	2,426.23	-5,524.59	4,017.17	3,926.17	91.01	44.141		
8,600.00	6,027.00	8,085.18	6,096.54	56.65	41.42	-91.61	2,480.39	-5,525.95	4,019.68	3,926.06	93.62	42.937		
8,700.00	6,027.00	8,137.69	6,096.48	58.08	42.22	-91.60	2,532.87	-5,527.91	4,023.38	3,927.15	96.22	41.813		
8,800.00	6,027.00	8,205.00	6,096.14	59.54	43.26	-91.60	2,600.08	-5,531.31	4,028.29	3,929.28	99.00	40.689		
8,900.00	6,027.00	8,233.60	6,095.94	61.01	43.71	-91.59	2,628.63	-5,533.13	4,034.36	3,933.00	101.35	39.806		
9,000.00	6,027.00	8,729.00	6,095.62	62.50	51.55	-91.58	3,123.16	-5,546.54	4,039.89	3,930.97	108.91	37.092		
9,100.00	6,027.00	8,763.82	6,095.30	64.01	52.11	-91.58	3,157.96	-5,545.57	4,037.53	3,926.05	111.47	36.220		
9,169.45	6,027.00	8,779.26	6,095.16	65.06	52.36	-91.58	3,173.40	-5,545.48	4,037.08	3,923.93	113.15	35.680		
9,200.00	6,027.00	8,818.00	6,094.81	65.53	52.99	-91.57	3,212.14	-5,546.16	4,037.75	3,923.52	114.23	35.348		
9,207.02	6,027.00	8,818.00	6,094.81	65.64	52.99	-91.57	3,212.14	-5,546.16	4,037.74	3,923.36	114.38	35.301		
9,300.00	6,027.00	8,818.00	6,094.81	67.06	52.99	-91.57	3,212.14	-5,546.16	4,038.81	3,922.44	116.37	34.705		
9,400.00	6,027.00	8,818.00	6,094.81	68.61	52.99	-91.57	3,212.14	-5,546.16	4,042.35	3,923.88	118.47	34.121		
9,500.00	6,027.00	8,858.40	6,094.50	70.17	53.65	-91.57	3,252.49	-5,548.12	4,047.58	3,926.55	121.03	33.443		
9,600.00	6,027.00	9,520.00	6,095.90	71.73	64.49	-91.59	3,912.16	-5,542.87	4,046.00	3,915.58	130.42	31.023		
9,700.00	6,027.00	9,520.00	6,095.90	73.31	64.49	-91.59	3,912.16	-5,542.87	4,039.64	3,906.85	132.79	30.422		
9,800.00	6,027.00	9,576.67	6,095.00	74.90	65.43	-91.58	3,968.74	-5,539.85	4,034.60	3,898.92	135.68	29.735		
9,900.00	6,027.00	9,608.00	6,094.46	76.50	65.94	-91.57	4,000.05	-5,538.83	4,031.36	3,893.05	138.31	29.147		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 124-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,994.93	6,027.00	9,608.00	6,094.46	78.02	65.94	-91.57	4,000.05	-5,538.83	4,030.24	3,889.79	140.45	28.695		
10,000.00	6,027.00	9,608.00	6,094.46	78.10	65.94	-91.57	4,000.05	-5,538.83	4,030.24	3,889.68	140.56	28.672		
10,100.00	6,027.00	9,696.00	6,092.99	79.71	67.42	-91.55	4,088.02	-5,539.14	4,030.52	3,886.73	143.79	28.030		
10,200.00	6,027.00	9,696.00	6,092.99	81.33	67.42	-91.55	4,088.02	-5,539.14	4,032.19	3,886.21	145.97	27.623		
10,300.00	6,027.00	9,696.00	6,092.99	82.96	67.42	-91.55	4,088.02	-5,539.14	4,036.33	3,888.26	148.07	27.259		
10,400.00	6,027.00	10,136.00	6,095.63	84.59	74.88	-91.58	4,527.22	-5,548.52	4,041.69	3,886.19	155.50	25.991		
10,500.00	6,027.00	10,166.74	6,095.58	86.23	75.40	-91.58	4,557.96	-5,548.00	4,039.66	3,881.51	158.15	25.543		
10,600.00	6,027.00	10,225.00	6,095.25	87.87	76.39	-91.58	4,616.21	-5,547.72	4,039.03	3,877.94	161.09	25.074		
10,611.10	6,027.00	10,225.00	6,095.25	88.05	76.39	-91.58	4,616.21	-5,547.72	4,039.01	3,877.68	161.34	25.035		
10,700.00	6,027.00	10,260.31	6,095.00	89.52	76.99	-91.57	4,651.52	-5,548.02	4,039.65	3,875.91	163.74	24.672		
10,800.00	6,027.00	10,313.00	6,094.71	91.17	77.89	-91.57	4,704.20	-5,549.15	4,041.67	3,875.10	166.57	24.264		
10,900.00	6,027.00	10,376.84	6,094.33	92.83	78.99	-91.56	4,768.01	-5,551.19	4,044.75	3,875.21	169.54	23.857		
11,000.00	6,027.00	10,444.08	6,093.84	94.49	80.15	-91.56	4,835.19	-5,553.73	4,048.50	3,875.96	172.55	23.463		
11,100.00	6,027.00	10,491.00	6,093.66	96.16	80.96	-91.55	4,882.07	-5,555.87	4,053.21	3,877.95	175.26	23.127		
11,200.00	6,027.00	10,531.09	6,093.57	97.83	81.65	-91.55	4,922.08	-5,558.26	4,059.32	3,881.47	177.86	22.824		
11,300.00	6,027.00	10,578.00	6,093.45	99.50	82.47	-91.55	4,968.83	-5,562.12	4,067.21	3,886.70	180.52	22.531		
11,400.00	6,027.00	10,578.00	6,093.45	101.18	82.47	-91.55	4,968.83	-5,562.12	4,076.70	3,894.30	182.40	22.351		
11,500.00	6,027.00	11,056.00	6,096.60	102.86	90.77	-91.58	5,445.14	-5,593.37	4,084.95	3,893.67	191.28	21.356		
11,600.00	6,027.00	11,537.52	6,095.21	104.54	99.01	-91.57	5,925.88	-5,578.72	4,082.35	3,883.80	198.55	20.561		
11,700.00	6,027.00	11,580.00	6,094.66	106.23	99.73	-91.56	5,968.23	-5,575.48	4,074.97	3,873.47	201.50	20.223		
11,800.00	6,027.00	11,667.00	6,093.40	107.92	101.21	-91.54	6,055.05	-5,570.13	4,068.75	3,863.92	204.82	19.865		
11,900.00	6,027.00	11,667.00	6,093.40	109.61	101.21	-91.54	6,055.05	-5,570.13	4,063.83	3,856.49	207.34	19.599		
12,000.00	6,027.00	11,703.45	6,092.88	111.31	101.84	-91.54	6,091.47	-5,568.87	4,060.70	3,850.54	210.15	19.323		
12,100.00	6,027.00	11,755.00	6,092.22	113.00	102.73	-91.53	6,143.02	-5,568.82	4,059.88	3,846.80	213.08	19.053		
12,137.91	6,027.00	11,755.00	6,092.22	113.65	102.73	-91.53	6,143.02	-5,568.82	4,059.70	3,845.74	213.96	18.974		
12,200.00	6,027.00	11,755.00	6,092.22	114.71	102.73	-91.53	6,143.02	-5,568.82	4,060.18	3,844.81	215.37	18.852		
12,300.00	6,027.00	11,755.00	6,092.22	116.41	102.73	-91.53	6,143.02	-5,568.82	4,062.94	3,845.42	217.52	18.678		
12,400.00	6,027.00	11,795.72	6,091.80	118.11	103.44	-91.52	6,183.71	-5,570.33	4,067.22	3,847.05	220.17	18.473		
12,500.00	6,027.00	12,459.00	6,096.51	119.82	114.88	-91.59	6,845.24	-5,555.30	4,060.43	3,830.71	229.72	17.676		
12,600.00	6,027.00	12,494.58	6,096.40	121.53	115.49	-91.59	6,880.72	-5,552.57	4,052.80	3,820.11	232.69	17.417		
12,700.00	6,027.00	12,547.00	6,096.09	123.24	116.39	-91.59	6,933.05	-5,549.72	4,046.97	3,811.22	235.75	17.166		
12,800.00	6,027.00	12,547.00	6,096.09	124.95	116.39	-91.59	6,933.05	-5,549.72	4,042.57	3,804.28	238.29	16.965		
12,900.00	6,027.00	12,590.14	6,095.72	126.66	117.14	-91.58	6,976.18	-5,548.46	4,039.89	3,798.71	241.18	16.751		
13,000.00	6,027.00	12,636.00	6,095.25	128.38	117.93	-91.58	7,022.03	-5,548.26	4,039.08	3,795.03	244.05	16.550		
13,016.91	6,027.00	12,636.00	6,095.25	128.67	117.93	-91.58	7,022.03	-5,548.26	4,039.05	3,794.60	244.45	16.523		
13,100.00	6,027.00	12,636.00	6,095.25	130.10	117.93	-91.58	7,022.03	-5,548.26	4,039.90	3,793.59	246.31	16.402		
13,200.00	6,027.00	12,679.50	6,094.72	131.82	118.70	-91.57	7,065.52	-5,549.21	4,042.38	3,793.34	249.04	16.232		
13,300.00	6,027.00	12,723.00	6,094.13	133.54	119.46	-91.56	7,108.96	-5,551.31	4,046.81	3,795.08	251.73	16.076		
13,400.00	6,027.00	12,723.00	6,094.13	135.26	119.46	-91.56	7,108.96	-5,551.31	4,052.89	3,799.22	253.67	15.977		
13,500.00	6,027.00	12,763.12	6,093.58	136.98	120.17	-91.55	7,148.96	-5,554.32	4,060.68	3,804.51	256.17	15.851		
13,600.00	6,027.00	13,361.83	6,096.20	138.71	130.64	-91.58	7,745.36	-5,568.26	4,061.34	3,794.96	266.38	15.246		
13,700.00	6,027.00	13,425.00	6,095.85	140.43	131.74	-91.58	7,808.52	-5,566.61	4,058.56	3,789.05	269.50	15.059		
13,800.00	6,027.00	13,455.29	6,095.58	142.16	132.27	-91.58	7,838.80	-5,566.22	4,056.97	3,784.72	272.25	14.902		
13,858.34	6,027.00	13,479.94	6,095.40	143.17	132.70	-91.57	7,863.45	-5,566.12	4,056.73	3,782.83	273.90	14.811		
13,900.00	6,027.00	13,512.00	6,095.24	143.89	133.26	-91.57	7,895.51	-5,566.31	4,056.91	3,781.67	275.25	14.739		
14,000.00	6,027.00	13,558.71	6,094.93	145.62	134.08	-91.57	7,942.22	-5,566.94	4,058.00	3,779.91	278.09	14.592		
14,100.00	6,027.00	13,866.00	6,094.40	147.35	139.44	-91.56	8,249.29	-5,561.55	4,054.62	3,770.73	283.89	14.282		
14,200.00	6,027.00	13,904.24	6,094.51	149.08	140.11	-91.56	8,287.49	-5,560.07	4,051.40	3,764.63	286.77	14.128		
14,300.00	6,027.00	13,954.00	6,094.65	150.81	140.98	-91.57	8,337.25	-5,560.27	4,050.88	3,761.16	289.72	13.982		
14,332.14	6,027.00	13,954.00	6,094.65	151.37	140.98	-91.57	8,337.25	-5,560.27	4,050.75	3,760.28	290.48	13.945		
14,400.00	6,027.00	13,954.00	6,094.65	152.54	140.98	-91.57	8,337.25	-5,560.27	4,051.32	3,759.31	292.01	13.874 ES		
14,500.00	6,027.00	13,954.00	6,094.65	154.28	140.98	-91.57	8,337.25	-5,560.27	4,054.23	3,760.11	294.12	13.784		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL SURVEY											Offset Site Error: 0.00 usft		
Survey Program: 124-MWD OWSG											Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,600.00	6,027.00	13,992.35	6,094.66	156.01	141.66	-91.56	8,375.56	-5,561.89	4,058.87	3,762.18	296.69	13.680	
14,700.00	6,027.00	14,042.00	6,094.41	157.75	142.54	-91.56	8,425.07	-5,565.64	4,065.76	3,766.37	299.38	13.580	
14,800.00	6,027.00	14,042.00	6,094.41	159.49	142.54	-91.56	8,425.07	-5,565.64	4,073.87	3,772.75	301.12	13.529	
14,900.00	6,027.00	14,074.68	6,094.23	161.22	143.12	-91.56	8,457.58	-5,568.97	4,084.02	3,780.67	303.34	13.463	
15,000.00	6,027.00	14,130.00	6,094.27	162.96	144.11	-91.55	8,512.47	-5,575.79	4,095.96	3,790.00	305.96	13.387	
15,100.00	6,027.00	14,130.00	6,094.27	164.70	144.11	-91.55	8,512.47	-5,575.79	4,109.19	3,801.88	307.31	13.372	
15,200.00	6,027.00	14,926.00	6,097.74	166.44	158.18	-91.58	9,303.46	-5,627.78	4,119.30	3,797.07	322.22	12.784	
15,298.36	6,027.00	14,926.00	6,097.74	168.16	158.18	-91.58	9,303.46	-5,627.78	4,118.12	3,793.51	324.62	12.686	
15,300.00	6,027.00	14,926.00	6,097.74	168.18	158.18	-91.58	9,303.46	-5,627.78	4,118.12	3,793.47	324.66	12.685	
15,334.45	6,027.00	14,955.92	6,097.73	168.78	158.71	-91.58	9,333.38	-5,627.59	4,117.93	3,792.12	325.81	12.639	
15,400.00	6,027.00	14,976.49	6,097.72	169.93	159.07	-91.58	9,353.95	-5,627.74	4,118.39	3,790.82	327.57	12.573	
15,500.00	6,027.00	15,013.00	6,097.69	171.67	159.72	-91.58	9,390.45	-5,628.56	4,120.48	3,790.24	330.24	12.477	
15,600.00	6,027.00	15,061.96	6,097.59	173.41	160.59	-91.58	9,439.38	-5,630.33	4,123.97	3,790.95	333.03	12.383	
15,700.00	6,027.00	15,163.94	6,097.08	175.15	162.39	-91.57	9,541.26	-5,634.78	4,128.31	3,791.72	336.59	12.265	
15,800.00	6,027.00	15,412.57	6,095.63	176.90	166.79	-91.55	9,789.78	-5,641.13	4,131.34	3,789.21	342.13	12.075	
15,900.00	6,027.00	15,648.75	6,094.76	178.64	170.94	-91.54	10,025.93	-5,638.11	4,129.99	3,782.90	347.09	11.899	
16,000.00	6,027.00	15,718.00	6,094.48	180.39	172.15	-91.53	10,095.15	-5,636.33	4,127.40	3,777.09	350.31	11.782	
16,100.00	6,027.00	15,781.86	6,094.30	182.13	173.27	-91.53	10,159.01	-5,635.20	4,125.62	3,772.17	353.45	11.672	
16,178.04	6,027.00	15,806.00	6,094.26	183.50	173.69	-91.53	10,183.14	-5,634.93	4,124.99	3,769.40	355.59	11.600	
16,200.00	6,027.00	15,806.00	6,094.26	183.88	173.69	-91.53	10,183.14	-5,634.93	4,125.05	3,768.95	356.10	11.584	
16,300.00	6,027.00	15,860.38	6,094.21	185.63	174.65	-91.53	10,237.51	-5,635.14	4,125.74	3,766.69	359.05	11.491	
16,400.00	6,027.00	15,893.00	6,094.19	187.38	175.23	-91.53	10,270.13	-5,635.93	4,128.18	3,766.54	361.64	11.415	
16,500.00	6,027.00	15,937.42	6,094.15	189.12	176.02	-91.53	10,314.51	-5,637.67	4,132.10	3,767.77	364.33	11.342	
16,600.00	6,027.00	15,980.00	6,094.06	190.87	176.77	-91.53	10,357.03	-5,639.94	4,137.40	3,770.48	366.92	11.276	
16,700.00	6,027.00	16,066.00	6,093.83	192.62	178.31	-91.52	10,442.86	-5,645.35	4,143.65	3,773.43	370.22	11.192	
16,795.97	6,027.00	16,091.00	6,093.77	194.30	178.75	-91.52	10,467.81	-5,647.00	4,150.38	3,778.05	372.33	11.147 SF	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,710.00	6,219.26	0.00	176.43	-78.13	881.10	-4,190.83	7,545.30					
100.00	100.00	15,710.00	6,219.26	0.27	176.43	-78.13	881.10	-4,190.83	7,463.19	7,344.31	118.88	62.779		
200.00	200.00	15,710.00	6,219.26	0.63	176.43	-78.13	881.10	-4,190.83	7,381.51	7,261.85	119.66	61.687		
300.00	300.00	15,710.00	6,219.26	0.99	176.43	-78.13	881.10	-4,190.83	7,300.29	7,179.81	120.48	60.591		
400.00	400.00	15,710.00	6,219.26	1.34	176.43	-78.13	881.10	-4,190.83	7,219.54	7,098.19	121.35	59.493		
500.00	500.00	15,710.00	6,219.26	1.70	176.43	-78.13	881.10	-4,190.83	7,139.28	7,017.02	122.26	58.394		
600.00	600.00	15,710.00	6,219.26	2.06	176.43	-78.13	881.10	-4,190.83	7,059.52	6,936.32	123.21	57.298		
700.00	700.00	15,710.00	6,219.26	2.42	176.43	-78.13	881.10	-4,190.83	6,980.29	6,856.09	124.19	56.204		
800.00	800.00	15,710.00	6,219.26	2.78	176.43	-78.13	881.10	-4,190.83	6,901.59	6,776.38	125.22	55.117		
900.00	900.00	15,710.00	6,219.26	3.14	176.43	-78.13	881.10	-4,190.83	6,823.45	6,697.18	126.27	54.037		
1,000.00	999.98	15,710.00	6,219.26	3.49	176.43	11.63	881.10	-4,190.83	6,744.82	6,617.47	127.35	52.963		
1,100.00	1,099.84	15,710.00	6,219.26	3.83	176.43	12.18	881.10	-4,190.83	6,664.66	6,536.24	128.42	51.899		
1,200.00	1,199.45	15,710.00	6,219.26	4.19	176.43	12.80	881.10	-4,190.83	6,583.01	6,453.55	129.46	50.850		
1,300.00	1,298.70	15,710.00	6,219.26	4.55	176.43	13.48	881.10	-4,190.83	6,499.92	6,369.44	130.48	49.817		
1,400.00	1,397.47	15,710.00	6,219.26	4.94	176.43	14.23	881.10	-4,190.83	6,415.43	6,283.97	131.47	48.799		
1,500.00	1,495.62	15,710.00	6,219.26	5.34	176.43	15.08	881.10	-4,190.83	6,329.60	6,197.18	132.42	47.798		
1,600.00	1,593.06	15,710.00	6,219.26	5.78	176.43	16.03	881.10	-4,190.83	6,242.48	6,109.13	133.35	46.812		
1,700.00	1,689.64	15,710.00	6,219.26	6.24	176.43	17.11	881.10	-4,190.83	6,154.12	6,019.87	134.25	45.842		
1,800.00	1,785.27	15,710.00	6,219.26	6.75	176.43	18.26	881.10	-4,190.83	6,064.57	5,929.46	135.11	44.886		
1,900.00	1,880.44	15,710.00	6,219.26	7.30	176.43	18.26	881.10	-4,190.83	5,974.69	5,838.74	135.95	43.947		
2,000.00	1,975.60	15,710.00	6,219.26	7.86	176.43	18.26	881.10	-4,190.83	5,885.13	5,748.31	136.82	43.013		
2,100.00	2,070.77	15,710.00	6,219.26	8.43	176.43	18.26	881.10	-4,190.83	5,795.92	5,658.20	137.71	42.086		
2,200.00	2,165.93	15,710.00	6,219.26	9.02	176.43	18.26	881.10	-4,190.83	5,707.06	5,568.42	138.63	41.166		
2,300.00	2,261.10	15,710.00	6,219.26	9.62	176.43	18.26	881.10	-4,190.83	5,618.58	5,478.99	139.58	40.253		
2,400.00	2,356.26	15,710.00	6,219.26	10.23	176.43	18.26	881.10	-4,190.83	5,530.49	5,389.93	140.56	39.347		
2,500.00	2,451.43	15,710.00	6,219.26	10.84	176.43	18.26	881.10	-4,190.83	5,442.81	5,301.25	141.56	38.449		
2,600.00	2,546.59	15,710.00	6,219.26	11.46	176.43	18.26	881.10	-4,190.83	5,355.56	5,212.97	142.59	37.559		
2,700.00	2,641.76	15,710.00	6,219.26	12.09	176.43	18.26	881.10	-4,190.83	5,268.77	5,125.11	143.65	36.677		
2,800.00	2,736.92	15,710.00	6,219.26	12.72	176.43	18.26	881.10	-4,190.83	5,182.45	5,037.70	144.74	35.804		
2,900.00	2,832.09	15,710.00	6,219.26	13.35	176.43	18.26	881.10	-4,190.83	5,096.63	4,950.77	145.86	34.941		
3,000.00	2,927.25	15,710.00	6,219.26	13.99	176.43	18.26	881.10	-4,190.83	5,011.34	4,864.32	147.01	34.087		
3,100.00	3,022.42	15,710.00	6,219.26	14.63	176.43	18.26	881.10	-4,190.83	4,926.60	4,778.40	148.20	33.244		
3,200.00	3,117.58	15,710.00	6,219.26	15.27	176.43	18.26	881.10	-4,190.83	4,842.44	4,693.03	149.41	32.410		
3,300.00	3,212.75	15,710.00	6,219.26	15.91	176.43	18.26	881.10	-4,190.83	4,758.90	4,608.24	150.66	31.588		
3,400.00	3,307.91	15,710.00	6,219.26	16.56	176.43	18.26	881.10	-4,190.83	4,676.00	4,524.07	151.93	30.777		
3,500.00	3,403.08	15,710.00	6,219.26	17.20	176.43	18.26	881.10	-4,190.83	4,593.79	4,440.54	153.24	29.977		
3,600.00	3,498.24	15,710.00	6,219.26	17.85	176.43	18.26	881.10	-4,190.83	4,512.29	4,357.70	154.58	29.190		
3,700.00	3,593.41	15,710.00	6,219.26	18.50	176.43	18.26	881.10	-4,190.83	4,431.55	4,275.59	155.96	28.415		
3,800.00	3,688.57	15,710.00	6,219.26	19.15	176.43	18.26	881.10	-4,190.83	4,351.61	4,194.24	157.36	27.653		
3,900.00	3,783.74	15,710.00	6,219.26	19.81	176.43	18.26	881.10	-4,190.83	4,272.51	4,113.71	158.80	26.905		
4,000.00	3,878.90	15,710.00	6,219.26	20.46	176.43	18.26	881.10	-4,190.83	4,194.31	4,034.04	160.27	26.170		
4,100.00	3,974.07	15,710.00	6,219.26	21.11	176.43	18.26	881.10	-4,190.83	4,117.05	3,955.28	161.77	25.450		
4,200.00	4,069.23	15,710.00	6,219.26	21.77	176.43	18.26	881.10	-4,190.83	4,040.79	3,877.49	163.30	24.745		
4,300.00	4,164.40	15,710.00	6,219.26	22.42	176.43	18.26	881.10	-4,190.83	3,965.58	3,800.73	164.86	24.055		
4,400.00	4,259.56	15,710.00	6,219.26	23.08	176.43	18.26	881.10	-4,190.83	3,891.49	3,725.06	166.44	23.381		
4,500.00	4,354.73	15,710.00	6,219.26	23.74	176.43	18.26	881.10	-4,190.83	3,818.59	3,650.54	168.04	22.724		
4,600.00	4,449.89	15,710.00	6,219.26	24.39	176.43	18.26	881.10	-4,190.83	3,746.93	3,577.26	169.67	22.083		
4,700.00	4,545.06	15,710.00	6,219.26	25.05	176.43	18.26	881.10	-4,190.83	3,676.59	3,505.28	171.32	21.461		
4,800.00	4,640.22	15,710.00	6,219.26	25.71	176.43	18.26	881.10	-4,190.83	3,607.66	3,434.69	172.97	20.857		
4,900.00	4,735.39	15,710.00	6,219.26	26.37	176.43	18.26	881.10	-4,190.83	3,540.21	3,365.57	174.64	20.271		
5,000.00	4,830.55	15,710.00	6,219.26	27.03	176.43	18.26	881.10	-4,190.83	3,474.33	3,298.02	176.31	19.705		
5,100.00	4,925.72	15,710.00	6,219.26	27.69	176.43	18.26	881.10	-4,190.83	3,410.11	3,232.12	177.98	19.160		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	15,710.00	6,219.26	28.35	176.43	18.26	881.10	-4,190.83	3,347.64	3,168.00	179.64	18.635		
5,300.00	5,116.05	15,710.00	6,219.26	29.01	176.43	18.26	881.10	-4,190.83	3,287.03	3,105.74	181.29	18.132		
5,400.00	5,211.21	15,710.00	6,219.26	29.67	176.43	18.26	881.10	-4,190.83	3,228.38	3,045.48	182.91	17.651		
5,500.00	5,306.38	15,710.00	6,219.26	30.33	176.43	18.26	881.10	-4,190.83	3,171.80	2,987.31	184.49	17.192		
5,600.00	5,401.54	15,710.00	6,219.26	30.99	176.43	18.26	881.10	-4,190.83	3,117.40	2,931.38	186.02	16.758		
5,700.00	5,496.71	15,710.00	6,219.26	31.65	176.43	13.36	881.10	-4,190.83	3,065.26	2,877.75	187.50	16.348		
5,800.00	5,591.13	15,710.00	6,219.26	32.30	176.43	-19.59	881.10	-4,190.83	3,012.81	2,823.84	188.97	15.943		
5,900.00	5,682.22	15,710.00	6,219.26	32.92	176.43	-42.64	881.10	-4,190.83	2,959.61	2,769.19	190.42	15.543		
6,000.00	5,767.23	15,710.00	6,219.26	33.50	176.43	-58.40	881.10	-4,190.83	2,907.28	2,715.43	191.85	15.154		
6,100.00	5,843.56	15,710.00	6,219.26	34.04	176.43	-69.85	881.10	-4,190.83	2,857.49	2,664.24	193.25	14.786		
6,200.00	5,908.90	15,710.00	6,219.26	34.53	176.43	-78.46	881.10	-4,190.83	2,811.94	2,617.30	194.65	14.446		
6,300.00	5,961.25	15,710.00	6,219.26	34.99	176.43	-84.91	881.10	-4,190.83	2,772.25	2,576.21	196.04	14.141		
6,400.00	5,999.04	15,710.00	6,219.26	35.42	176.43	-89.55	881.10	-4,190.83	2,739.90	2,542.47	197.43	13.878		
6,500.00	6,021.11	15,710.00	6,219.26	35.83	176.43	-92.58	881.10	-4,190.83	2,716.15	2,517.35	198.80	13.663		
6,600.00	6,027.00	15,710.00	6,219.26	36.24	176.43	-93.95	881.10	-4,190.83	2,701.88	2,501.77	200.11	13.502		
6,700.00	6,027.00	15,710.00	6,219.26	36.68	176.43	-93.95	881.10	-4,190.83	2,693.51	2,492.12	201.40	13.374		
6,800.00	6,027.00	15,710.00	6,219.26	37.20	176.43	-93.95	881.10	-4,190.83	2,688.84	2,486.16	202.68	13.266		
6,900.00	6,027.00	15,632.90	6,218.94	37.80	175.08	-93.95	958.18	-4,189.29	2,686.72	2,484.38	202.35	13.278		
7,000.00	6,027.00	15,560.29	6,218.42	38.47	173.80	-93.94	1,030.78	-4,188.28	2,685.26	2,483.07	202.19	13.281		
7,100.00	6,027.00	15,396.25	6,215.60	39.21	170.92	-93.88	1,194.74	-4,184.43	2,682.56	2,482.44	200.12	13.404		
7,200.00	6,027.00	15,270.30	6,214.57	40.02	168.72	-93.87	1,320.58	-4,179.47	2,678.51	2,479.60	198.91	13.466		
7,300.00	6,027.00	15,202.17	6,213.98	40.89	167.53	-93.86	1,388.67	-4,177.04	2,674.84	2,475.74	199.10	13.435		
7,400.00	6,027.00	15,090.86	6,214.65	41.83	165.58	-93.88	1,499.89	-4,172.91	2,671.13	2,472.80	198.32	13.469		
7,500.00	6,027.00	15,014.00	6,215.98	42.83	164.24	-93.91	1,576.71	-4,170.53	2,668.10	2,469.70	198.40	13.448		
7,600.00	6,027.00	14,909.26	6,218.13	43.88	162.40	-93.96	1,681.39	-4,168.07	2,665.91	2,468.05	197.86	13.474		
7,700.00	6,027.00	14,824.00	6,220.28	44.99	160.91	-94.01	1,766.59	-4,165.53	2,663.12	2,465.31	197.81	13.463		
7,800.00	6,027.00	14,765.09	6,221.43	46.14	159.87	-94.04	1,825.48	-4,164.47	2,661.51	2,463.09	198.42	13.414		
7,866.01	6,027.00	14,719.15	6,221.80	46.92	159.07	-94.05	1,871.42	-4,164.28	2,661.26	2,462.59	198.66	13.396 CC		
7,900.00	6,027.00	14,696.68	6,221.88	47.33	158.67	-94.05	1,893.88	-4,164.33	2,661.33	2,462.52	198.81	13.386 ES		
8,000.00	6,027.00	14,634.00	6,221.86	48.57	157.57	-94.05	1,956.56	-4,165.09	2,662.50	2,463.16	199.34	13.356		
8,100.00	6,027.00	14,570.99	6,221.35	49.84	156.45	-94.03	2,019.54	-4,167.07	2,665.36	2,465.51	199.86	13.336		
8,200.00	6,027.00	14,404.11	6,220.87	51.15	153.51	-94.02	2,186.37	-4,170.46	2,667.36	2,469.18	198.17	13.460		
8,300.00	6,027.00	14,295.54	6,215.69	52.48	151.60	-93.91	2,294.81	-4,170.94	2,667.41	2,469.62	197.79	13.486		
8,400.00	6,027.00	14,208.00	6,211.19	53.85	150.06	-93.81	2,382.23	-4,171.79	2,668.01	2,470.13	197.89	13.483		
8,500.00	6,027.00	14,120.68	6,207.04	55.24	148.52	-93.72	2,469.45	-4,173.02	2,669.09	2,471.09	198.00	13.480		
8,600.00	6,027.00	14,028.93	6,203.12	56.65	146.90	-93.63	2,561.09	-4,174.68	2,670.60	2,472.58	198.02	13.486		
8,700.00	6,027.00	13,919.80	6,199.87	58.08	144.98	-93.56	2,670.16	-4,176.57	2,672.13	2,474.46	197.67	13.518		
8,800.00	6,027.00	13,829.00	6,199.50	59.54	143.38	-93.55	2,760.94	-4,177.67	2,673.33	2,475.61	197.71	13.521		
8,900.00	6,027.00	13,734.00	6,199.18	61.01	141.71	-93.54	2,855.92	-4,179.45	2,675.15	2,477.47	197.68	13.533		
9,000.00	6,027.00	13,663.88	6,197.71	62.50	140.47	-93.51	2,925.99	-4,181.52	2,677.83	2,479.64	198.19	13.511		
9,100.00	6,027.00	13,554.30	6,196.72	64.01	138.54	-93.48	3,035.51	-4,184.77	2,680.73	2,482.87	197.86	13.549		
9,200.00	6,027.00	13,469.18	6,197.65	65.53	137.04	-93.50	3,120.60	-4,187.14	2,683.56	2,485.51	198.04	13.550		
9,300.00	6,027.00	13,345.90	6,199.38	67.06	134.88	-93.53	3,243.81	-4,190.63	2,686.48	2,489.06	197.42	13.608		
9,400.00	6,027.00	13,219.99	6,201.41	68.61	132.67	-93.57	3,369.68	-4,192.53	2,688.01	2,491.28	196.73	13.663		
9,500.00	6,027.00	13,131.25	6,201.31	70.17	131.11	-93.57	3,458.41	-4,193.89	2,689.52	2,492.64	196.88	13.661		
9,600.00	6,027.00	13,003.93	6,199.22	71.73	128.87	-93.52	3,585.69	-4,196.17	2,691.30	2,495.11	196.19	13.718		
9,700.00	6,027.00	12,905.39	6,194.88	73.31	127.14	-93.43	3,684.14	-4,196.73	2,691.58	2,495.42	196.16	13.721		
9,800.00	6,027.00	12,674.72	6,195.20	74.90	123.12	-93.44	3,914.62	-4,192.07	2,689.04	2,496.12	192.92	13.938		
9,900.00	6,027.00	12,605.00	6,195.78	76.50	121.91	-93.46	3,984.29	-4,189.68	2,685.62	2,491.99	193.63	13.870		
10,000.00	6,027.00	12,532.28	6,194.04	78.10	120.64	-93.42	4,056.97	-4,188.12	2,683.27	2,489.02	194.25	13.813		
10,100.00	6,027.00	12,450.56	6,191.44	79.71	119.22	-93.37	4,138.64	-4,187.02	2,681.71	2,487.06	194.65	13.777		
10,200.00	6,027.00	12,345.99	6,190.17	81.33	117.39	-93.34	4,243.19	-4,185.87	2,680.53	2,486.03	194.50	13.782		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	12,263.99	6,190.09	82.96	115.96	-93.34	4,325.19	-4,184.90	2,679.35	2,484.47	194.88	13.749		
10,400.00	6,027.00	12,151.72	6,191.97	84.59	114.01	-93.38	4,437.44	-4,184.01	2,678.67	2,484.14	194.53	13.770		
10,500.00	6,027.00	12,070.12	6,193.03	86.23	112.58	-93.40	4,519.03	-4,183.17	2,677.72	2,482.80	194.92	13.737		
10,569.51	6,027.00	12,014.23	6,193.57	87.37	111.61	-93.42	4,574.91	-4,183.03	2,677.56	2,482.35	195.21	13.716		
10,600.00	6,027.00	11,988.55	6,193.76	87.87	111.16	-93.42	4,600.59	-4,183.05	2,677.59	2,482.28	195.31	13.709		
10,700.00	6,027.00	11,841.14	6,194.35	89.52	108.60	-93.43	4,748.00	-4,182.14	2,677.03	2,482.89	194.14	13.789		
10,800.00	6,027.00	11,768.00	6,194.27	91.17	107.33	-93.43	4,821.13	-4,181.33	2,675.90	2,481.14	194.76	13.740		
10,849.82	6,027.00	11,733.91	6,194.05	91.99	106.73	-93.43	4,855.22	-4,181.24	2,675.74	2,480.62	195.12	13.713		
10,900.00	6,027.00	11,701.25	6,193.62	92.83	106.17	-93.42	4,887.87	-4,181.37	2,675.90	2,480.39	195.51	13.687		
11,000.00	6,027.00	11,642.28	6,192.52	94.49	105.14	-93.40	4,946.83	-4,182.25	2,677.28	2,480.87	196.41	13.631		
11,100.00	6,027.00	11,600.31	6,191.97	96.16	104.41	-93.38	4,988.78	-4,183.41	2,680.29	2,482.68	197.62	13.563		
11,200.00	6,027.00	11,349.70	6,192.10	97.83	100.05	-93.38	5,239.33	-4,186.89	2,681.41	2,487.18	194.23	13.806		
11,300.00	6,027.00	11,261.76	6,192.27	99.50	98.53	-93.39	5,327.26	-4,185.59	2,679.97	2,485.47	194.50	13.779		
11,350.50	6,027.00	11,232.00	6,192.24	100.35	98.01	-93.39	5,357.02	-4,185.47	2,679.75	2,484.76	194.99	13.743		
11,400.00	6,027.00	11,180.56	6,192.14	101.18	97.12	-93.38	5,408.46	-4,185.58	2,679.85	2,484.91	194.94	13.747		
11,500.00	6,027.00	11,043.81	6,192.11	102.86	94.76	-93.38	5,545.19	-4,184.21	2,678.75	2,484.69	194.05	13.804		
11,600.00	6,027.00	10,908.48	6,190.90	104.54	92.43	-93.36	5,680.48	-4,181.16	2,676.36	2,483.17	193.19	13.854		
11,700.00	6,027.00	10,842.00	6,190.34	106.23	91.28	-93.35	5,746.94	-4,179.53	2,673.95	2,479.92	194.03	13.781		
11,800.00	6,027.00	10,780.41	6,189.97	107.92	90.22	-93.35	5,808.53	-4,178.84	2,672.91	2,477.95	194.95	13.711		
11,806.53	6,027.00	10,777.00	6,189.96	108.03	90.16	-93.34	5,811.93	-4,178.84	2,672.90	2,477.88	195.02	13.705		
11,900.00	6,027.00	10,716.82	6,189.64	109.61	89.12	-93.34	5,872.11	-4,179.36	2,673.60	2,477.80	195.79	13.655		
12,000.00	6,027.00	10,637.57	6,189.14	111.31	87.76	-93.33	5,951.35	-4,180.68	2,675.21	2,478.94	196.26	13.631		
12,100.00	6,027.00	10,564.87	6,188.84	113.00	86.50	-93.32	6,024.02	-4,182.52	2,677.71	2,480.85	196.86	13.602		
12,200.00	6,027.00	10,434.03	6,188.29	114.71	84.25	-93.30	6,154.85	-4,184.48	2,678.85	2,482.64	196.20	13.653		
12,300.00	6,027.00	10,366.23	6,187.68	116.41	83.08	-93.29	6,222.61	-4,186.70	2,681.81	2,484.90	196.91	13.619		
12,400.00	6,027.00	10,229.27	6,187.34	118.11	80.73	-93.28	6,259.51	-4,190.19	2,684.36	2,488.23	196.13	13.687		
12,500.00	6,027.00	10,082.01	6,187.39	119.82	78.21	-93.27	6,506.76	-4,191.70	2,685.45	2,490.37	195.08	13.766		
12,595.81	6,027.00	9,987.56	6,186.99	121.46	76.60	-93.27	6,601.21	-4,191.54	2,685.24	2,490.10	195.14	13.760		
12,600.00	6,027.00	9,984.88	6,186.98	121.53	76.56	-93.27	6,603.89	-4,191.54	2,685.24	2,490.06	195.18	13.758		
12,700.00	6,027.00	9,914.00	6,187.67	123.24	75.35	-93.28	6,674.76	-4,192.08	2,685.98	2,490.11	195.87	13.713		
12,800.00	6,027.00	9,827.73	6,188.89	124.95	73.88	-93.30	6,761.02	-4,193.41	2,687.55	2,491.35	196.20	13.698		
12,900.00	6,027.00	9,714.36	6,189.31	126.66	71.96	-93.31	6,874.37	-4,195.10	2,689.06	2,493.12	195.94	13.724		
13,000.00	6,027.00	9,528.75	6,188.56	128.38	68.82	-93.30	7,059.97	-4,194.35	2,688.60	2,494.60	194.00	13.859		
13,100.00	6,027.00	9,367.83	6,189.09	130.10	66.12	-93.31	7,220.78	-4,188.67	2,684.85	2,492.32	192.53	13.945		
13,200.00	6,027.00	9,316.40	6,188.67	131.82	65.26	-93.31	7,272.17	-4,186.75	2,681.24	2,487.42	193.83	13.833		
13,300.00	6,027.00	9,252.00	6,188.87	133.54	64.18	-93.31	7,336.56	-4,186.43	2,680.28	2,485.52	194.75	13.762		
13,331.16	6,027.00	9,252.00	6,188.87	134.07	64.18	-93.31	7,336.56	-4,186.43	2,680.10	2,484.59	195.50	13.709		
13,400.00	6,027.00	9,180.84	6,189.05	135.26	62.99	-93.32	7,407.72	-4,186.94	2,680.60	2,485.11	195.50	13.712		
13,459.75	6,027.00	9,132.71	6,188.68	136.29	62.19	-93.31	7,455.85	-4,186.85	2,680.50	2,484.69	195.81	13.690		
13,500.00	6,027.00	9,113.24	6,188.62	136.98	61.87	-93.31	7,475.32	-4,187.01	2,680.80	2,484.49	196.30	13.656		
13,600.00	6,027.00	9,076.83	6,188.68	138.71	61.26	-93.31	7,511.72	-4,187.62	2,682.87	2,485.14	197.73	13.568		
13,700.00	6,027.00	8,912.10	6,188.43	140.43	58.53	-93.30	7,676.42	-4,190.35	2,684.07	2,487.63	196.44	13.664		
13,800.00	6,027.00	8,797.36	6,188.35	142.16	56.64	-93.30	7,791.15	-4,191.62	2,685.18	2,488.98	196.20	13.686		
13,900.00	6,027.00	8,730.14	6,188.10	143.89	55.53	-93.29	7,858.37	-4,192.22	2,686.13	2,489.11	197.02	13.633		
14,000.00	6,027.00	8,659.93	6,188.74	145.62	54.39	-93.30	7,928.55	-4,194.06	2,688.67	2,490.92	197.75	13.596		
14,100.00	6,027.00	8,527.97	6,188.42	147.35	52.24	-93.29	8,060.48	-4,196.87	2,690.71	2,493.51	197.20	13.645		
14,200.00	6,027.00	8,415.38	6,188.84	149.08	50.43	-93.30	8,173.06	-4,198.50	2,692.16	2,495.11	197.05	13.662		
14,300.00	6,027.00	8,315.42	6,187.92	150.81	48.83	-93.28	8,273.00	-4,199.74	2,693.32	2,496.13	197.20	13.658		
14,400.00	6,027.00	8,174.98	6,186.80	152.54	46.60	-93.25	8,413.43	-4,200.85	2,694.16	2,497.68	196.48	13.712		
14,500.00	6,027.00	8,036.49	6,188.48	154.28	44.44	-93.29	8,551.89	-4,198.76	2,692.53	2,496.75	195.78	13.753		
14,600.00	6,027.00	7,888.38	6,190.86	156.01	42.16	-93.35	8,699.91	-4,194.25	2,689.39	2,494.55	194.84	13.803		
14,700.00	6,027.00	7,814.25	6,193.31	157.75	41.03	-93.40	8,773.96	-4,191.93	2,686.42	2,490.76	195.66	13.730		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,800.00	6,027.00	7,734.00	6,195.54	159.49	39.82	-93.45	8,854.15	-4,189.81	2,683.99	2,487.65	196.34	13.670		
14,900.00	6,027.00	7,659.64	6,196.38	161.22	38.72	-93.47	8,928.49	-4,188.55	2,682.42	2,485.26	197.16	13.605		
15,000.00	6,027.00	7,545.00	6,196.43	162.96	37.04	-93.47	9,043.12	-4,187.42	2,681.44	2,484.32	197.12	13.603		
15,091.00	6,027.00	7,491.72	6,196.09	164.55	36.27	-93.47	9,096.40	-4,187.00	2,680.72	2,482.51	198.21	13.525		
15,100.00	6,027.00	7,486.88	6,196.00	164.70	36.21	-93.46	9,101.24	-4,187.01	2,680.72	2,482.40	198.32	13.517		
15,200.00	6,027.00	7,414.29	6,193.71	166.44	35.18	-93.41	9,173.79	-4,187.89	2,681.63	2,482.42	199.22	13.461		
15,300.00	6,027.00	7,293.10	6,191.51	168.18	33.50	-93.37	9,294.95	-4,189.06	2,682.49	2,483.33	199.16	13.469		
15,400.00	6,027.00	7,165.00	6,190.23	169.93	31.78	-93.34	9,423.04	-4,188.99	2,682.34	2,483.35	199.00	13.479		
15,440.90	6,027.00	7,141.73	6,189.89	170.64	31.48	-93.33	9,446.30	-4,188.93	2,682.21	2,482.67	199.53	13.442		
15,500.00	6,027.00	7,108.34	6,189.54	171.67	31.05	-93.32	9,479.69	-4,189.12	2,682.49	2,482.19	200.30	13.392		
15,600.00	6,027.00	7,044.02	6,189.26	173.41	30.24	-93.32	9,544.00	-4,190.30	2,684.22	2,482.78	201.43	13.326		
15,700.00	6,027.00	6,957.63	6,189.47	175.15	29.19	-93.32	9,630.36	-4,192.57	2,686.82	2,484.64	202.19	13.289		
15,800.00	6,027.00	6,879.00	6,189.90	176.90	28.27	-93.33	9,708.96	-4,194.65	2,689.59	2,486.50	203.10	13.243		
15,900.00	6,027.00	6,784.00	6,190.06	178.64	27.23	-93.32	9,803.90	-4,198.09	2,693.20	2,489.40	203.80	13.215		
16,000.00	6,027.00	6,676.45	6,189.22	180.39	26.13	-93.30	9,911.35	-4,202.61	2,697.37	2,492.97	204.40	13.197		
16,100.00	6,027.00	6,552.39	6,186.92	182.13	24.98	-93.25	10,035.34	-4,206.00	2,699.87	2,495.01	204.86	13.179		
16,192.61	6,027.00	6,387.96	6,165.97	183.75	23.66	-92.80	10,198.01	-4,208.02	2,699.83	2,495.06	204.77	13.184		
16,200.00	6,027.00	6,384.52	6,165.09	183.88	23.64	-92.78	10,201.33	-4,208.07	2,699.84	2,494.93	204.91	13.176		
16,300.00	6,027.00	6,083.00	5,999.13	185.63	21.89	-89.26	10,446.66	-4,206.04	2,698.50	2,494.56	203.94	13.232		
16,400.00	6,027.00	6,053.91	5,976.57	187.38	21.75	-88.78	10,465.00	-4,205.02	2,694.81	2,488.42	206.39	13.057		
16,471.05	6,027.00	6,035.00	5,961.54	188.62	21.67	-88.46	10,476.46	-4,204.50	2,694.00	2,485.95	208.05	12.949		
16,500.00	6,027.00	6,035.00	5,961.54	189.12	21.67	-88.46	10,476.46	-4,204.50	2,694.16	2,485.39	208.77	12.905		
16,600.00	6,027.00	6,006.41	5,938.13	190.87	21.55	-87.96	10,492.86	-4,204.07	2,696.65	2,485.76	210.89	12.787		
16,700.00	6,027.00	5,988.00	5,922.58	192.62	21.47	-87.63	10,502.72	-4,204.05	2,702.49	2,489.60	212.89	12.694		
16,795.97	6,027.00	5,957.58	5,896.13	194.30	21.35	-87.07	10,517.74	-4,204.18	2,711.10	2,496.57	214.53	12.637 SF		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	12.00	12.00	0.27	0.00	-83.86	848.28	-7,882.42	7,927.93	7,927.66	0.27	N/A		
200.00	200.00	100.50	100.50	0.63	0.30	-83.86	848.19	-7,882.49	7,928.00	7,927.07	0.93	8,554.816		
300.00	300.00	196.73	196.73	0.99	0.64	-83.86	847.96	-7,882.69	7,928.19	7,926.56	1.63	4,865.917		
400.00	400.00	279.84	279.84	1.34	0.94	-83.86	847.84	-7,882.93	7,928.46	7,926.17	2.28	3,469.816		
500.00	500.00	370.14	370.14	1.70	1.26	-83.86	847.55	-7,883.42	7,928.96	7,926.00	2.97	2,672.650		
600.00	600.00	494.00	493.99	2.06	1.71	-83.87	847.17	-7,883.99	7,929.40	7,925.63	3.77	2,104.414		
700.00	700.00	622.20	622.19	2.42	2.15	-83.87	846.93	-7,883.99	7,929.36	7,924.79	4.57	1,736.471		
755.57	755.57	667.58	667.58	2.62	2.30	-83.87	846.94	-7,883.96	7,929.32	7,924.40	4.92	1,611.132		
800.00	800.00	708.19	708.18	2.78	2.44	-83.87	846.94	-7,883.98	7,929.34	7,924.12	5.22	1,518.775		
900.00	900.00	816.57	816.56	3.14	2.82	-83.87	847.07	-7,883.96	7,929.34	7,923.39	5.95	1,332.264		
1,000.00	999.98	911.10	911.09	3.49	3.14	5.39	847.23	-7,883.87	7,927.52	7,920.90	6.62	1,196.967		
1,100.00	1,099.84	987.09	987.09	3.83	3.40	5.41	847.61	-7,883.96	7,922.48	7,915.25	7.23	1,095.810		
1,200.00	1,199.45	1,076.05	1,076.04	4.19	3.71	5.44	848.36	-7,884.25	7,914.22	7,906.33	7.89	1,003.294		
1,300.00	1,298.70	1,222.66	1,222.65	4.55	4.22	5.48	849.54	-7,884.16	7,902.06	7,893.31	8.75	903.077		
1,400.00	1,397.47	1,319.35	1,319.33	4.94	4.56	5.53	850.44	-7,883.92	7,886.34	7,876.90	9.44	835.327		
1,500.00	1,495.62	1,482.00	1,481.98	5.34	5.12	5.59	850.77	-7,882.94	7,866.74	7,856.38	10.36	759.317		
1,600.00	1,593.06	1,588.79	1,588.75	5.78	5.49	5.65	850.42	-7,881.93	7,843.41	7,832.32	11.09	707.425		
1,700.00	1,689.64	1,706.66	1,706.62	6.24	5.90	5.73	850.42	-7,880.50	7,816.49	7,804.63	11.86	659.287		
1,800.00	1,785.27	1,736.92	1,736.88	6.75	6.01	5.80	850.47	-7,880.23	7,786.52	7,774.19	12.33	631.487		
1,900.00	1,880.44	1,774.88	1,774.83	7.30	6.14	5.81	850.51	-7,880.20	7,755.84	7,743.02	12.82	604.775		
2,000.00	1,975.60	1,888.64	1,888.60	7.86	6.54	5.84	850.56	-7,880.29	7,725.34	7,711.76	13.59	568.585		
2,100.00	2,070.77	1,979.37	1,979.33	8.43	6.86	5.86	850.46	-7,880.29	7,694.75	7,680.48	14.27	539.089		
2,200.00	2,165.93	2,048.00	2,047.94	9.02	7.10	5.86	848.93	-7,880.57	7,664.35	7,649.47	14.89	514.835		
2,300.00	2,261.10	2,105.49	2,105.34	9.62	7.29	5.85	845.94	-7,881.25	7,634.36	7,618.90	15.47	493.634		
2,400.00	2,356.26	2,143.00	2,142.73	10.23	7.42	5.84	842.95	-7,881.98	7,604.93	7,588.95	15.98	475.882		
2,500.00	2,451.43	2,199.31	2,198.73	10.84	7.62	5.81	837.29	-7,883.58	7,576.08	7,559.51	16.56	457.367		
2,600.00	2,546.59	2,237.00	2,236.13	11.46	7.75	5.78	832.87	-7,885.00	7,547.92	7,530.83	17.09	441.706		
2,700.00	2,641.76	2,331.00	2,329.32	12.09	8.09	5.71	821.24	-7,889.06	7,520.17	7,502.36	17.81	422.224		
2,800.00	2,736.92	2,397.87	2,395.60	12.72	8.33	5.66	812.99	-7,892.13	7,492.69	7,474.25	18.45	406.196		
2,900.00	2,832.09	2,464.42	2,461.54	13.35	8.58	5.60	804.54	-7,895.40	7,465.52	7,446.43	19.09	391.163		
3,000.00	2,927.25	2,525.42	2,521.83	13.99	8.80	5.55	795.90	-7,898.77	7,438.79	7,419.08	19.71	377.427		
3,100.00	3,022.42	2,586.24	2,581.81	14.63	9.03	5.48	786.56	-7,902.49	7,412.53	7,392.19	20.34	364.483		
3,200.00	3,117.58	2,650.17	2,644.85	15.27	9.28	5.42	776.76	-7,906.69	7,386.73	7,365.75	20.98	352.059		
3,300.00	3,212.75	2,707.00	2,700.90	15.91	9.50	5.36	768.29	-7,910.61	7,361.35	7,339.75	21.60	340.765		
3,400.00	3,307.91	2,766.52	2,759.63	16.56	9.73	5.30	759.68	-7,915.01	7,336.48	7,314.24	22.24	329.922		
3,500.00	3,403.08	2,832.00	2,824.26	17.20	9.99	5.24	750.54	-7,920.29	7,312.24	7,289.34	22.90	319.378		
3,600.00	3,498.24	2,892.90	2,884.37	17.85	10.23	5.18	742.20	-7,925.43	7,288.42	7,264.88	23.54	309.627		
3,700.00	3,593.41	2,956.00	2,946.63	18.50	10.48	5.12	733.60	-7,930.93	7,264.95	7,240.76	24.19	300.285		
3,800.00	3,688.57	2,988.00	2,978.20	19.15	10.61	5.09	729.23	-7,933.83	7,242.07	7,217.34	24.73	292.822		
3,900.00	3,783.74	3,558.00	3,538.25	19.81	13.00	4.42	636.32	-7,975.23	7,218.94	7,191.57	27.37	263.784		
4,000.00	3,878.90	3,611.51	3,591.09	20.46	13.22	4.36	628.02	-7,976.58	7,189.98	7,161.98	28.00	256.767		
4,100.00	3,974.07	3,653.00	3,632.06	21.11	13.39	4.31	621.85	-7,978.76	7,162.72	7,134.13	28.59	250.515		
4,200.00	4,069.23	3,653.00	3,632.06	21.77	13.39	4.31	621.85	-7,978.76	7,136.13	7,107.10	29.02	245.875		
4,300.00	4,164.40	3,653.00	3,632.06	22.42	13.39	4.31	621.85	-7,978.76	7,110.84	7,081.38	29.45	241.425		
4,400.00	4,259.56	3,696.18	3,674.70	23.08	13.58	4.27	615.76	-7,981.91	7,086.36	7,056.31	30.05	235.824		
4,500.00	4,354.73	3,746.00	3,723.88	23.74	13.79	4.22	609.29	-7,986.44	7,063.14	7,032.47	30.67	230.287		
4,600.00	4,449.89	3,746.00	3,723.88	24.39	13.79	4.22	609.29	-7,986.44	7,040.57	7,009.48	31.10	226.396		
4,700.00	4,545.06	3,790.80	3,768.12	25.05	13.97	4.18	603.95	-7,991.10	7,019.05	6,987.35	31.70	221.446		
4,800.00	4,640.22	3,839.00	3,815.73	25.71	14.18	4.14	598.65	-7,996.46	6,998.28	6,965.97	32.31	216.615		
4,900.00	4,735.39	3,878.15	3,854.39	26.37	14.34	4.11	594.62	-8,001.10	6,978.26	6,945.38	32.88	212.231		
5,000.00	4,830.55	3,932.00	3,907.55	27.03	14.56	4.07	589.33	-8,007.91	6,959.04	6,925.53	33.51	207.673		
5,100.00	4,925.72	4,024.30	3,998.65	27.69	14.94	4.01	580.60	-8,019.88	6,940.24	6,905.95	34.28	202.433		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	4,221.78	4,193.56	28.35	15.77	3.86	560.24	-8,044.23	6,920.91	6,885.44	35.47	195.141		
5,300.00	5,116.05	4,261.12	4,232.37	29.01	15.94	3.82	555.92	-8,048.99	6,901.08	6,865.04	36.05	191.452		
5,400.00	5,211.21	4,763.49	4,727.16	29.67	18.15	3.28	486.47	-8,098.97	6,880.54	6,842.10	38.44	179.005		
5,500.00	5,306.38	4,851.71	4,814.19	30.33	18.54	3.18	473.31	-8,104.95	6,855.46	6,816.24	39.22	174.803		
5,600.00	5,401.54	4,939.73	4,901.25	30.99	18.92	3.09	461.88	-8,110.92	6,830.52	6,790.52	40.00	170.776		
5,700.00	5,496.71	5,027.30	4,987.92	31.65	19.30	-1.48	450.89	-8,116.95	6,805.70	6,764.92	40.77	166.911		
5,800.00	5,591.13	5,141.50	5,100.43	32.30	19.80	-31.36	432.98	-8,124.97	6,780.42	6,738.78	41.64	162.825		
5,900.00	5,682.22	5,151.00	5,109.77	32.92	19.85	-50.83	431.42	-8,125.62	6,755.40	6,713.33	42.08	160.543		
6,000.00	5,767.23	5,208.47	5,166.33	33.50	20.11	-63.15	422.22	-8,129.95	6,731.72	6,689.03	42.69	157.701		
6,100.00	5,843.56	5,245.00	5,202.30	34.04	20.27	-71.23	416.70	-8,133.14	6,710.77	6,667.53	43.23	155.230		
6,200.00	5,908.90	5,245.00	5,202.30	34.53	20.27	-76.55	416.70	-8,133.14	6,693.10	6,649.41	43.69	153.212		
6,300.00	5,961.25	5,276.40	5,233.22	34.99	20.41	-80.39	412.09	-8,136.11	6,679.41	6,635.06	44.35	150.611		
6,400.00	5,999.04	5,288.62	5,245.25	35.42	20.47	-82.76	410.31	-8,137.30	6,670.29	6,625.25	45.04	148.089		
6,500.00	6,021.11	5,292.68	5,249.24	35.83	20.49	-83.92	409.72	-8,137.70	6,666.11	6,620.30	45.81	145.512		
6,535.85	6,025.22	5,292.19	5,248.76	35.97	20.48	-84.05	409.79	-8,137.65	6,665.82	6,619.71	46.11	144.569		
6,600.00	6,027.00	5,288.49	5,245.13	36.24	20.47	-84.02	410.32	-8,137.29	6,666.99	6,620.35	46.64	142.948		
6,700.00	6,027.00	5,281.32	5,238.07	36.68	20.43	-83.96	411.37	-8,136.58	6,670.65	6,623.08	47.57	140.230		
6,800.00	6,027.00	5,274.12	5,230.97	37.20	20.40	-83.90	412.42	-8,135.88	6,675.78	6,627.17	48.62	137.319		
6,900.00	6,027.00	5,245.00	5,202.30	37.80	20.27	-83.65	416.70	-8,133.14	6,682.47	6,632.79	49.67	134.530		
7,000.00	6,027.00	6,464.00	6,100.25	38.47	22.95	-91.38	955.11	-8,195.42	6,688.09	6,635.77	52.32	127.840		
7,100.00	6,027.00	6,464.00	6,100.25	39.21	22.95	-91.38	955.11	-8,195.42	6,689.57	6,635.94	53.63	124.740		
7,200.00	6,027.00	6,515.20	6,100.75	40.02	23.17	-91.39	1,006.29	-8,196.58	6,692.00	6,636.85	55.15	121.349		
7,300.00	6,027.00	6,557.00	6,100.87	40.89	23.35	-91.39	1,048.07	-8,198.06	6,695.45	6,638.75	56.70	118.075		
7,400.00	6,027.00	6,557.00	6,100.87	41.83	23.35	-91.39	1,048.07	-8,198.06	6,700.03	6,641.81	58.22	115.078		
7,500.00	6,027.00	6,614.21	6,100.81	42.83	23.68	-91.39	1,105.21	-8,200.96	6,705.32	6,645.34	59.99	111.781		
7,600.00	6,027.00	6,651.00	6,100.69	43.88	23.90	-91.38	1,141.92	-8,203.38	6,711.79	6,650.06	61.73	108.729		
7,700.00	6,027.00	7,597.69	6,095.24	44.99	33.83	-91.34	2,087.60	-8,208.74	6,711.80	6,641.17	70.63	95.023		
7,800.00	6,027.00	7,669.17	6,095.33	46.14	34.78	-91.34	2,158.97	-8,204.87	6,706.35	6,633.29	73.06	91.790		
7,900.00	6,027.00	7,766.46	6,095.38	47.33	36.09	-91.34	2,256.13	-8,199.79	6,701.11	6,625.30	75.81	88.396		
8,000.00	6,027.00	7,809.32	6,095.39	48.57	36.69	-91.34	2,298.93	-8,197.69	6,696.25	6,618.21	78.04	85.803		
8,100.00	6,027.00	7,868.00	6,095.29	49.84	37.50	-91.34	2,357.58	-8,195.55	6,692.41	6,611.93	80.48	83.160		
8,200.00	6,027.00	7,896.48	6,095.21	51.15	37.91	-91.34	2,386.05	-8,194.76	6,689.28	6,606.65	82.62	80.960		
8,300.00	6,027.00	7,961.00	6,095.09	52.48	38.83	-91.34	2,450.55	-8,193.19	6,686.82	6,601.64	85.19	78.496		
8,400.00	6,027.00	7,961.00	6,095.09	53.85	38.83	-91.34	2,450.55	-8,193.19	6,685.39	6,598.33	87.06	76.789		
8,500.00	6,027.00	8,015.29	6,095.04	55.24	39.62	-91.34	2,504.83	-8,192.60	6,684.63	6,595.07	89.56	74.636		
8,504.45	6,027.00	8,016.49	6,095.04	55.30	39.64	-91.34	2,506.03	-8,192.60	6,684.63	6,594.97	89.66	74.554		
8,600.00	6,027.00	8,055.00	6,095.02	56.65	40.20	-91.34	2,544.54	-8,192.93	6,685.22	6,593.31	91.91	72.735		
8,700.00	6,027.00	8,055.00	6,095.02	58.08	40.20	-91.34	2,544.54	-8,192.93	6,686.86	6,593.05	93.81	71.278		
8,800.00	6,027.00	8,149.00	6,094.90	59.54	41.60	-91.34	2,638.51	-8,195.27	6,689.33	6,592.49	96.84	69.078		
8,900.00	6,027.00	8,183.27	6,094.80	61.01	42.12	-91.33	2,672.76	-8,196.44	6,692.45	6,593.28	99.17	67.486		
9,000.00	6,027.00	8,243.00	6,094.54	62.50	43.03	-91.33	2,732.45	-8,198.60	6,696.10	6,594.29	101.81	65.768		
9,100.00	6,027.00	8,337.00	6,094.54	64.01	44.48	-91.33	2,826.37	-8,202.44	6,700.17	6,595.26	104.91	63.868		
9,200.00	6,027.00	8,694.28	6,095.34	65.53	50.09	-91.34	3,183.53	-8,210.37	6,702.29	6,590.96	111.34	60.198		
9,290.25	6,027.00	8,806.00	6,096.22	66.91	51.86	-91.34	3,295.24	-8,209.96	6,701.84	6,587.32	114.52	58.519		
9,300.00	6,027.00	8,806.00	6,096.22	67.06	51.86	-91.34	3,295.24	-8,209.96	6,701.85	6,587.13	114.72	58.420		
9,400.00	6,027.00	9,508.92	6,094.89	68.61	63.20	-91.34	3,996.35	-8,182.92	6,700.82	6,575.58	125.24	53.505		
9,500.00	6,027.00	9,560.00	6,094.69	70.17	64.03	-91.34	4,047.30	-8,179.34	6,693.08	6,565.14	127.95	52.311		
9,600.00	6,027.00	9,560.00	6,094.69	71.73	64.03	-91.34	4,047.30	-8,179.34	6,685.72	6,555.65	130.07	51.402		
9,700.00	6,027.00	9,560.00	6,094.69	73.31	64.03	-91.34	4,047.30	-8,179.34	6,679.84	6,547.67	132.17	50.538		
9,800.00	6,027.00	9,560.00	6,094.69	74.90	64.03	-91.34	4,047.30	-8,179.34	6,675.46	6,541.19	134.27	49.717		
9,900.00	6,027.00	9,598.54	6,094.52	76.50	64.66	-91.34	4,085.80	-8,177.82	6,671.97	6,535.14	136.83	48.760		
10,000.00	6,027.00	9,654.00	6,094.48	78.10	65.58	-91.34	4,141.26	-8,177.33	6,670.41	6,530.80	139.61	47.779		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	6,027.00	9,654.00	6,094.48	79.71	65.58	-91.34	4,141.26	-8,177.33	6,669.11	6,527.44	141.67	47.074		
10,136.70	6,027.00	9,654.00	6,094.48	80.31	65.58	-91.34	4,141.26	-8,177.33	6,669.01	6,526.59	142.42	46.825		
10,200.00	6,027.00	9,654.00	6,094.48	81.33	65.58	-91.34	4,141.26	-8,177.33	6,669.31	6,525.60	143.71	46.407		
10,300.00	6,027.00	9,936.00	6,094.44	82.96	70.30	-91.34	4,423.22	-8,176.05	6,668.72	6,519.25	149.47	44.617		
10,400.00	6,027.00	9,973.76	6,094.30	84.59	70.94	-91.33	4,460.98	-8,175.68	6,667.52	6,515.48	152.04	43.855		
10,500.00	6,027.00	10,030.00	6,094.26	86.23	71.88	-91.33	4,517.22	-8,175.35	6,666.96	6,512.12	154.84	43.056		
10,512.66	6,027.00	10,030.00	6,094.26	86.43	71.88	-91.33	4,517.22	-8,175.35	6,666.95	6,511.84	155.11	42.983		
10,600.00	6,027.00	10,072.31	6,094.28	87.87	72.60	-91.33	4,559.53	-8,175.43	6,667.17	6,509.70	157.47	42.340		
10,700.00	6,027.00	10,125.00	6,094.21	89.52	73.49	-91.33	4,612.21	-8,176.14	6,668.35	6,508.12	160.22	41.619		
10,800.00	6,027.00	10,125.00	6,094.21	91.17	73.49	-91.33	4,612.21	-8,176.14	6,670.48	6,508.24	162.24	41.114		
10,900.00	6,027.00	10,168.97	6,094.20	92.83	74.24	-91.33	4,656.17	-8,177.39	6,673.58	6,508.71	164.87	40.479		
11,000.00	6,027.00	10,522.27	6,096.75	94.49	80.26	-91.35	5,009.28	-8,186.13	6,677.67	6,505.88	171.79	38.871		
11,100.00	6,027.00	10,634.00	6,098.47	96.16	82.17	-91.37	5,120.99	-8,185.56	6,677.14	6,501.77	175.37	38.075		
11,116.44	6,027.00	10,634.00	6,098.47	96.43	82.17	-91.37	5,120.99	-8,185.56	6,677.12	6,501.41	175.71	38.001		
11,200.00	6,027.00	10,634.00	6,098.47	97.83	82.17	-91.37	5,120.99	-8,185.56	6,677.64	6,500.21	177.44	37.634		
11,300.00	6,027.00	10,634.00	6,098.47	99.50	82.17	-91.37	5,120.99	-8,185.56	6,679.64	6,500.17	179.47	37.218		
11,400.00	6,027.00	10,634.00	6,098.47	101.18	82.17	-91.37	5,120.99	-8,185.56	6,683.14	6,501.67	181.47	36.828		
11,500.00	6,027.00	10,634.00	6,098.47	102.86	82.17	-91.37	5,120.99	-8,185.56	6,688.13	6,504.70	183.43	36.461		
11,600.00	6,027.00	10,634.00	6,098.47	104.54	82.17	-91.37	5,120.99	-8,185.56	6,694.61	6,509.25	185.35	36.118		
11,700.00	6,027.00	11,549.28	6,097.23	106.23	97.85	-91.36	6,034.18	-8,191.34	6,690.80	6,490.79	200.02	33.451		
11,800.00	6,027.00	11,686.24	6,097.22	107.92	100.19	-91.36	6,170.96	-8,184.35	6,685.71	6,481.81	203.89	32.790		
11,900.00	6,027.00	11,669.00	6,097.19	109.61	99.90	-91.36	6,153.75	-8,185.29	6,681.25	6,475.33	205.91	32.447		
12,000.00	6,027.00	11,669.00	6,097.19	111.31	99.90	-91.36	6,153.75	-8,185.29	6,678.26	6,470.17	208.10	32.092		
12,100.00	6,027.00	11,713.81	6,097.22	113.00	100.67	-91.36	6,198.53	-8,183.77	6,675.74	6,464.90	210.83	31.664		
12,200.00	6,027.00	12,015.83	6,098.58	114.71	105.86	-91.37	6,500.35	-8,176.37	6,674.20	6,457.36	216.85	30.778		
12,300.00	6,027.00	12,075.10	6,099.31	116.41	106.88	-91.38	6,559.56	-8,173.87	6,670.03	6,450.23	219.80	30.346		
12,400.00	6,027.00	12,137.00	6,099.56	118.11	107.95	-91.38	6,621.43	-8,171.80	6,666.61	6,443.82	222.78	29.924		
12,500.00	6,027.00	12,137.00	6,099.56	119.82	107.95	-91.38	6,621.43	-8,171.80	6,664.10	6,439.14	224.97	29.623		
12,600.00	6,027.00	12,188.08	6,099.57	121.53	108.83	-91.38	6,672.50	-8,170.82	6,662.43	6,434.64	227.79	29.248		
12,700.00	6,027.00	12,231.00	6,099.61	123.24	109.58	-91.38	6,715.42	-8,170.72	6,661.99	6,431.49	230.50	28.903		
12,710.86	6,027.00	12,231.00	6,099.61	123.42	109.58	-91.38	6,715.42	-8,170.72	6,661.98	6,431.26	230.73	28.874 CC		
12,800.00	6,027.00	12,231.00	6,099.61	124.95	109.58	-91.38	6,715.42	-8,170.72	6,662.58	6,429.99	232.58	28.646		
12,900.00	6,027.00	12,231.00	6,099.61	126.66	109.58	-91.38	6,715.42	-8,170.72	6,664.67	6,430.04	234.62	28.406		
13,000.00	6,027.00	12,286.36	6,099.74	128.38	110.54	-91.38	6,770.77	-8,171.86	6,667.20	6,429.75	237.45	28.079		
13,100.00	6,027.00	12,324.00	6,099.86	130.10	111.20	-91.38	6,808.37	-8,173.56	6,671.38	6,431.39	239.99	27.798		
13,200.00	6,027.00	12,814.54	6,100.24	131.82	119.76	-91.38	7,298.65	-8,179.99	6,671.80	6,422.74	249.06	26.788		
13,300.00	6,027.00	12,955.50	6,100.03	133.54	122.21	-91.38	7,439.60	-8,177.85	6,670.33	6,417.25	253.08	26.357		
13,400.00	6,027.00	13,035.09	6,100.17	135.26	123.59	-91.39	7,519.16	-8,176.02	6,668.11	6,411.81	256.30	26.017		
13,500.00	6,027.00	13,077.00	6,100.19	136.98	124.32	-91.39	7,561.07	-8,175.56	6,666.89	6,407.88	259.02	25.739		
13,556.52	6,027.00	13,077.00	6,100.19	137.96	124.32	-91.39	7,561.07	-8,175.56	6,666.65	6,406.43	260.22	25.619		
13,600.00	6,027.00	13,077.00	6,100.19	138.71	124.32	-91.39	7,561.07	-8,175.56	6,666.79	6,405.66	261.14	25.530		
13,700.00	6,027.00	13,077.00	6,100.19	140.43	124.32	-91.39	7,561.07	-8,175.56	6,668.20	6,404.99	263.20	25.335		
13,800.00	6,027.00	13,077.00	6,100.19	142.16	124.32	-91.39	7,561.07	-8,175.56	6,671.10	6,405.89	265.21	25.154		
13,900.00	6,027.00	13,122.87	6,100.13	143.89	125.13	-91.38	7,606.93	-8,176.48	6,674.19	6,406.31	267.88	24.915		
14,000.00	6,027.00	13,171.00	6,100.01	145.62	125.98	-91.38	7,654.93	-8,179.89	6,680.11	6,409.54	270.57	24.689		
14,100.00	6,027.00	13,171.00	6,100.01	147.35	125.98	-91.38	7,654.93	-8,179.89	6,686.09	6,413.64	272.45	24.540		
14,200.00	6,027.00	13,171.00	6,100.01	149.08	125.98	-91.38	7,654.93	-8,179.89	6,693.56	6,419.28	274.28	24.404		
14,300.00	6,027.00	14,299.00	6,100.77	150.81	145.70	-91.39	8,780.38	-8,190.83	6,698.59	6,406.48	292.11	22.932		
14,400.00	6,027.00	14,299.00	6,100.77	152.54	145.70	-91.39	8,780.38	-8,190.83	6,692.23	6,397.73	294.50	22.724		
14,500.00	6,027.00	14,299.00	6,100.77	154.28	145.70	-91.39	8,780.38	-8,190.83	6,687.36	6,390.53	296.83	22.529		
14,600.00	6,027.00	14,299.00	6,100.77	156.01	145.70	-91.39	8,780.38	-8,190.83	6,683.98	6,384.88	299.10	22.347		
14,700.00	6,027.00	14,299.00	6,100.77	157.75	145.70	-91.39	8,780.38	-8,190.83	6,682.10	6,380.78	301.31	22.177		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,775.82	6,027.00	14,299.00	6,100.77	159.07	145.70	-91.39	8,780.38	-8,190.83	6,681.67	6,378.72	302.95	22.056	
14,800.00	6,027.00	14,299.00	6,100.77	159.49	145.70	-91.39	8,780.38	-8,190.83	6,681.71	6,378.25	303.46	22.018	
14,900.00	6,027.00	14,299.00	6,100.77	161.22	145.70	-91.39	8,780.38	-8,190.83	6,682.82	6,377.28	305.54	21.872	
15,000.00	6,027.00	14,959.00	6,101.29	162.96	157.16	-91.39	9,436.77	-8,179.05	6,683.76	6,367.67	316.09	21.145	
15,100.00	6,027.00	14,959.00	6,101.29	164.70	157.16	-91.39	9,436.77	-8,179.05	6,678.04	6,359.56	318.48	20.969	
15,200.00	6,027.00	15,005.84	6,101.39	166.44	157.97	-91.40	9,483.41	-8,174.96	6,671.50	6,350.15	321.35	20.761	
15,300.00	6,027.00	15,054.00	6,101.91	168.18	158.81	-91.40	9,531.56	-8,175.21	6,669.79	6,345.57	324.23	20.571	
15,400.00	6,027.00	15,054.00	6,101.91	169.93	158.81	-91.40	9,531.56	-8,175.21	6,667.14	6,340.66	326.48	20.421	
15,500.00	6,027.00	15,054.00	6,101.91	171.67	158.81	-91.40	9,531.56	-8,175.21	6,665.98	6,337.32	328.67	20.282	
15,527.00	6,027.00	15,054.00	6,101.91	172.14	158.81	-91.40	9,531.56	-8,175.21	6,665.93	6,336.68	329.24	20.246	
15,600.00	6,027.00	15,054.00	6,101.91	173.41	158.81	-91.40	9,531.56	-8,175.21	6,666.33	6,335.55	330.78	20.153	
15,700.00	6,027.00	15,054.00	6,101.91	175.15	158.81	-91.40	9,531.56	-8,175.21	6,668.17	6,335.35	332.82	20.035 ES	
15,800.00	6,027.00	15,054.00	6,101.91	176.90	158.81	-91.40	9,531.56	-8,175.21	6,671.52	6,336.73	334.79	19.928	
15,900.00	6,027.00	15,054.00	6,101.91	178.64	158.81	-91.40	9,531.56	-8,175.21	6,676.36	6,339.68	336.68	19.830	
16,000.00	6,027.00	15,098.31	6,102.61	180.39	159.59	-91.41	9,575.78	-8,177.79	6,682.28	6,343.02	339.27	19.696	
16,100.00	6,027.00	15,149.00	6,103.52	182.13	160.49	-91.41	9,626.34	-8,181.37	6,689.22	6,347.28	341.94	19.563	
16,200.00	6,027.00	15,244.00	6,104.49	183.88	162.18	-91.42	9,721.10	-8,188.05	6,696.26	6,350.88	345.38	19.388	
16,300.00	6,027.00	15,286.51	6,104.56	185.63	162.94	-91.42	9,763.49	-8,191.12	6,703.71	6,355.82	347.89	19.270	
16,400.00	6,027.00	16,045.00	6,103.52	187.38	176.36	-91.41	10,520.69	-8,218.63	6,710.17	6,348.54	361.63	18.555	
16,500.00	6,027.00	16,045.00	6,103.52	189.12	176.36	-91.41	10,520.69	-8,218.63	6,709.18	6,345.36	363.83	18.441	
16,516.14	6,027.00	16,045.00	6,103.52	189.41	176.36	-91.41	10,520.69	-8,218.63	6,709.16	6,344.99	364.17	18.423	
16,600.00	6,027.00	16,045.00	6,103.52	190.87	176.36	-91.41	10,520.69	-8,218.63	6,709.69	6,343.75	365.94	18.335	
16,700.00	6,027.00	16,045.00	6,103.52	192.62	176.36	-91.41	10,520.69	-8,218.63	6,711.68	6,343.70	367.98	18.239	
16,795.97	6,027.00	16,045.00	6,103.52	194.30	176.36	-91.41	10,520.69	-8,218.63	6,715.00	6,345.14	369.86	18.156 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 755-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,900.00	6,027.00	10,650.00	6,204.92	161.22	83.48	-91.50	16,727.39	-7,879.70	10,087.67	9,947.78	139.89	72.112		
15,000.00	6,027.00	10,650.00	6,204.92	162.96	83.48	-91.50	16,727.39	-7,879.70	10,010.32	9,868.17	142.15	70.423		
15,100.00	6,027.00	10,650.00	6,204.92	164.70	83.48	-91.50	16,727.39	-7,879.70	9,933.37	9,788.93	144.44	68.772		
15,200.00	6,027.00	10,650.00	6,204.92	166.44	83.48	-91.50	16,727.39	-7,879.70	9,856.84	9,710.08	146.77	67.160		
15,300.00	6,027.00	10,650.00	6,204.92	168.18	83.48	-91.50	16,727.39	-7,879.70	9,780.74	9,631.61	149.13	65.585		
15,400.00	6,027.00	10,650.00	6,204.92	169.93	83.48	-91.50	16,727.39	-7,879.70	9,705.06	9,553.54	151.53	64.048		
15,500.00	6,027.00	10,650.00	6,204.92	171.67	83.48	-91.50	16,727.39	-7,879.70	9,629.83	9,475.87	153.96	62.547		
15,600.00	6,027.00	10,650.00	6,204.92	173.41	83.48	-91.50	16,727.39	-7,879.70	9,555.06	9,398.63	156.43	61.082		
15,700.00	6,027.00	10,650.00	6,204.92	175.15	83.48	-91.50	16,727.39	-7,879.70	9,480.75	9,321.81	158.93	59.652		
15,800.00	6,027.00	10,650.00	6,204.92	176.90	83.48	-91.50	16,727.39	-7,879.70	9,406.91	9,245.44	161.47	58.257		
15,900.00	6,027.00	10,650.00	6,204.92	178.64	83.48	-91.50	16,727.39	-7,879.70	9,333.57	9,169.52	164.05	56.895		
16,000.00	6,027.00	10,650.00	6,204.92	180.39	83.48	-91.50	16,727.39	-7,879.70	9,260.72	9,094.06	166.66	55.566		
16,100.00	6,027.00	10,650.00	6,204.92	182.13	83.48	-91.50	16,727.39	-7,879.70	9,188.38	9,019.07	169.31	54.269		
16,200.00	6,027.00	10,650.00	6,204.92	183.88	83.48	-91.50	16,727.39	-7,879.70	9,116.57	8,944.57	172.00	53.005		
16,300.00	6,027.00	10,650.00	6,204.92	185.63	83.48	-91.50	16,727.39	-7,879.70	9,045.29	8,870.57	174.72	51.771		
16,400.00	6,027.00	10,650.00	6,204.92	187.38	83.48	-91.50	16,727.39	-7,879.70	8,974.56	8,797.09	177.47	50.569		
16,500.00	6,027.00	10,650.00	6,204.92	189.12	83.48	-91.50	16,727.39	-7,879.70	8,904.39	8,724.12	180.27	49.396		
16,600.00	6,027.00	10,650.00	6,204.92	190.87	83.48	-91.50	16,727.39	-7,879.70	8,834.79	8,651.70	183.10	48.252		
16,700.00	6,027.00	10,650.00	6,204.92	192.62	83.48	-91.50	16,727.39	-7,879.70	8,765.79	8,579.83	185.96	47.137		
16,795.97	6,027.00	10,650.00	6,204.92	194.30	83.48	-91.50	16,727.39	-7,879.70	8,700.13	8,511.38	188.75	46.094	CC, ES, SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											SEC 5-T5N-R61W - EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL SURVEY			Offset Site Error:		0.00 usft
Survey Program:		750-MWD OWSG										Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)				
14,500.00	6,027.00	10,700.00	6,210.16	154.28	83.52	-91.70	16,730.36	-7,387.64	10,109.65	9,989.22	120.43	83.946				
14,600.00	6,027.00	10,700.00	6,210.16	156.01	83.52	-91.70	16,730.36	-7,387.64	10,028.46	9,905.98	122.48	81.879				
14,700.00	6,027.00	10,700.00	6,210.16	157.75	83.52	-91.70	16,730.36	-7,387.64	9,947.61	9,823.04	124.56	79.859				
14,800.00	6,027.00	10,700.00	6,210.16	159.49	83.52	-91.70	16,730.36	-7,387.64	9,867.10	9,740.42	126.69	77.887				
14,900.00	6,027.00	10,700.00	6,210.16	161.22	83.52	-91.70	16,730.36	-7,387.64	9,786.96	9,658.12	128.84	75.960				
15,000.00	6,027.00	10,700.00	6,210.16	162.96	83.52	-91.70	16,730.36	-7,387.64	9,707.19	9,576.15	131.04	74.078				
15,100.00	6,027.00	10,700.00	6,210.16	164.70	83.52	-91.70	16,730.36	-7,387.64	9,627.79	9,494.52	133.27	72.241				
15,200.00	6,027.00	10,700.00	6,210.16	166.44	83.52	-91.70	16,730.36	-7,387.64	9,548.78	9,413.24	135.54	70.448				
15,300.00	6,027.00	10,700.00	6,210.16	168.18	83.52	-91.70	16,730.36	-7,387.64	9,470.17	9,332.32	137.85	68.698				
15,400.00	6,027.00	10,700.00	6,210.16	169.93	83.52	-91.70	16,730.36	-7,387.64	9,391.96	9,251.76	140.20	66.990				
15,500.00	6,027.00	10,700.00	6,210.16	171.67	83.52	-91.70	16,730.36	-7,387.64	9,314.17	9,171.59	142.59	65.323				
15,600.00	6,027.00	10,700.00	6,210.16	173.41	83.52	-91.70	16,730.36	-7,387.64	9,236.81	9,091.80	145.01	63.697				
15,700.00	6,027.00	10,700.00	6,210.16	175.15	83.52	-91.70	16,730.36	-7,387.64	9,159.89	9,012.41	147.48	62.110				
15,800.00	6,027.00	10,700.00	6,210.16	176.90	83.52	-91.70	16,730.36	-7,387.64	9,083.42	8,933.43	149.98	60.563				
15,900.00	6,027.00	10,700.00	6,210.16	178.64	83.52	-91.70	16,730.36	-7,387.64	9,007.40	8,854.88	152.53	59.054				
16,000.00	6,027.00	10,700.00	6,210.16	180.39	83.52	-91.70	16,730.36	-7,387.64	8,931.86	8,776.75	155.11	57.583				
16,100.00	6,027.00	10,700.00	6,210.16	182.13	83.52	-91.70	16,730.36	-7,387.64	8,856.81	8,699.07	157.74	56.148				
16,200.00	6,027.00	10,700.00	6,210.16	183.88	83.52	-91.70	16,730.36	-7,387.64	8,782.25	8,621.84	160.41	54.750				
16,300.00	6,027.00	10,700.00	6,210.16	185.63	83.52	-91.70	16,730.36	-7,387.64	8,708.20	8,545.09	163.12	53.387				
16,400.00	6,027.00	10,700.00	6,210.16	187.38	83.52	-91.70	16,730.36	-7,387.64	8,634.68	8,468.81	165.87	52.058				
16,500.00	6,027.00	10,700.00	6,210.16	189.12	83.52	-91.70	16,730.36	-7,387.64	8,561.69	8,393.04	168.66	50.764				
16,600.00	6,027.00	10,700.00	6,210.16	190.87	83.52	-91.70	16,730.36	-7,387.64	8,489.25	8,317.76	171.49	49.503				
16,700.00	6,027.00	10,700.00	6,210.16	192.62	83.52	-91.70	16,730.36	-7,387.64	8,417.38	8,243.02	174.36	48.275				
16,795.97	6,027.00	10,700.00	6,210.16	194.30	83.52	-91.70	16,730.36	-7,387.64	8,348.95	8,171.79	177.16	47.126	CC, ES, SF			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,800.00	6,027.00	4,248.24	3,877.55	46.14	35.04	-59.95	10,820.18	-5,254.86	9,998.59	9,937.46	61.12	163.581		
7,900.00	6,027.00	4,250.20	3,879.28	47.33	35.06	-59.98	10,820.21	-5,255.77	9,908.52	9,847.58	60.94	162.592		
8,000.00	6,027.00	4,252.15	3,881.02	48.57	35.08	-60.00	10,820.25	-5,256.68	9,818.64	9,757.86	60.78	161.543		
8,100.00	6,027.00	4,254.11	3,882.75	49.84	35.10	-60.03	10,820.29	-5,257.59	9,728.96	9,668.32	60.64	160.430		
8,200.00	6,027.00	4,256.07	3,884.48	51.15	35.12	-60.05	10,820.33	-5,258.50	9,639.48	9,578.95	60.53	159.250		
8,300.00	6,027.00	4,258.03	3,886.22	52.48	35.14	-60.08	10,820.37	-5,259.41	9,550.22	9,489.77	60.44	157.999		
8,400.00	6,027.00	4,259.99	3,887.95	53.85	35.16	-60.11	10,820.41	-5,260.32	9,461.16	9,400.77	60.39	156.675		
8,500.00	6,027.00	4,261.94	3,889.68	55.24	35.18	-60.13	10,820.44	-5,261.23	9,372.33	9,311.97	60.36	155.274		
8,600.00	6,027.00	4,263.90	3,891.42	56.65	35.20	-60.16	10,820.48	-5,262.14	9,283.72	9,223.36	60.36	153.794		
8,700.00	6,027.00	4,265.86	3,893.15	58.08	35.22	-60.18	10,820.52	-5,263.05	9,195.35	9,134.94	60.40	152.233		
8,800.00	6,027.00	4,267.82	3,894.88	59.54	35.24	-60.21	10,820.56	-5,263.96	9,107.21	9,046.74	60.48	150.591		
8,900.00	6,027.00	4,269.77	3,896.61	61.01	35.26	-60.24	10,820.60	-5,264.87	9,019.33	8,958.74	60.59	148.866		
9,000.00	6,027.00	4,271.73	3,898.35	62.50	35.28	-60.26	10,820.63	-5,265.78	8,931.70	8,870.96	60.74	147.058		
9,100.00	6,027.00	4,273.69	3,900.08	64.01	35.30	-60.29	10,820.67	-5,266.69	8,844.32	8,783.40	60.92	145.169		
9,200.00	6,027.00	4,275.65	3,901.81	65.53	35.31	-60.31	10,820.71	-5,267.60	8,757.22	8,696.07	61.15	143.199		
9,300.00	6,027.00	4,277.61	3,903.55	67.06	35.33	-60.34	10,820.75	-5,268.51	8,670.40	8,608.98	61.43	141.150		
9,400.00	6,027.00	4,279.56	3,905.28	68.61	35.35	-60.37	10,820.79	-5,269.42	8,583.87	8,522.12	61.74	139.027		
9,500.00	6,027.00	4,281.52	3,907.01	70.17	35.37	-60.39	10,820.82	-5,270.33	8,497.62	8,435.52	62.10	136.831		
9,600.00	6,027.00	4,283.48	3,908.75	71.73	35.39	-60.42	10,820.86	-5,271.24	8,411.69	8,349.18	62.51	134.569		
9,700.00	6,027.00	4,285.44	3,910.48	73.31	35.41	-60.44	10,820.90	-5,272.15	8,326.06	8,263.10	62.96	132.243		
9,800.00	6,027.00	4,287.39	3,912.21	74.90	35.43	-60.47	10,820.94	-5,273.06	8,240.76	8,177.31	63.46	129.861		
9,900.00	6,027.00	4,289.35	3,913.94	76.50	35.45	-60.50	10,820.98	-5,273.97	8,155.80	8,091.79	64.00	127.427		
10,000.00	6,027.00	4,291.31	3,915.68	78.10	35.47	-60.52	10,821.02	-5,274.88	8,071.18	8,006.58	64.60	124.947		
10,100.00	6,027.00	4,293.27	3,917.41	79.71	35.49	-60.55	10,821.05	-5,275.79	7,986.91	7,921.67	65.24	122.428		
10,200.00	6,027.00	4,295.23	3,919.14	81.33	35.51	-60.57	10,821.09	-5,276.70	7,903.01	7,837.08	65.93	119.877		
10,300.00	6,027.00	4,297.18	3,920.88	82.96	35.53	-60.60	10,821.13	-5,277.61	7,819.48	7,752.82	66.66	117.300		
10,400.00	6,027.00	4,299.14	3,922.61	84.59	35.55	-60.63	10,821.17	-5,278.52	7,736.35	7,668.90	67.45	114.702		
10,500.00	6,027.00	4,301.10	3,924.34	86.23	35.57	-60.65	10,821.21	-5,279.43	7,653.62	7,585.34	68.28	112.092		
10,600.00	6,027.00	4,303.06	3,926.07	87.87	35.59	-60.68	10,821.24	-5,280.34	7,571.31	7,502.15	69.16	109.474		
10,700.00	6,027.00	4,305.02	3,927.81	89.52	35.61	-60.70	10,821.28	-5,281.25	7,489.43	7,419.34	70.09	106.855		
10,800.00	6,027.00	4,306.97	3,929.54	91.17	35.63	-60.73	10,821.32	-5,282.16	7,407.99	7,336.92	71.07	104.241		
10,900.00	6,027.00	4,308.93	3,931.27	92.83	35.64	-60.75	10,821.36	-5,283.07	7,327.01	7,254.92	72.09	101.637		
11,000.00	6,027.00	4,310.89	3,933.01	94.49	35.66	-60.78	10,821.40	-5,283.98	7,246.50	7,173.34	73.16	99.048		
11,100.00	6,027.00	4,312.85	3,934.74	96.16	35.68	-60.81	10,821.44	-5,284.89	7,166.49	7,092.21	74.28	96.478		
11,200.00	6,027.00	4,314.80	3,936.47	97.83	35.70	-60.83	10,821.47	-5,285.80	7,086.98	7,011.53	75.45	93.933		
11,300.00	6,027.00	4,316.76	3,938.21	99.50	35.72	-60.86	10,821.51	-5,286.71	7,008.00	6,931.34	76.66	91.415		
11,400.00	6,027.00	4,318.72	3,939.94	101.18	35.74	-60.88	10,821.55	-5,287.62	6,929.56	6,851.64	77.92	88.930		
11,500.00	6,027.00	4,320.68	3,941.67	102.86	35.76	-60.91	10,821.59	-5,288.53	6,851.68	6,772.45	79.23	86.479		
11,600.00	6,027.00	4,322.64	3,943.40	104.54	35.78	-60.94	10,821.63	-5,289.44	6,774.38	6,693.79	80.58	84.066		
11,700.00	6,027.00	4,324.59	3,945.14	106.23	35.80	-60.96	10,821.66	-5,290.35	6,697.68	6,615.69	81.98	81.694		
11,800.00	6,027.00	4,326.55	3,946.87	107.92	35.82	-60.99	10,821.70	-5,291.26	6,621.60	6,538.17	83.43	79.365		
11,900.00	6,027.00	4,328.51	3,948.60	109.61	35.84	-61.01	10,821.74	-5,292.17	6,546.17	6,461.24	84.93	77.080		
12,000.00	6,027.00	4,330.47	3,950.34	111.31	35.86	-61.04	10,821.78	-5,293.08	6,471.40	6,384.93	86.47	74.841		
12,100.00	6,027.00	4,332.42	3,952.07	113.00	35.88	-61.07	10,821.82	-5,293.99	6,397.32	6,309.26	88.06	72.651		
12,200.00	6,027.00	4,334.38	3,953.80	114.71	35.90	-61.09	10,821.85	-5,294.90	6,323.95	6,234.26	89.69	70.509		
12,300.00	6,027.00	4,336.34	3,955.53	116.41	35.92	-61.12	10,821.89	-5,295.81	6,251.32	6,159.95	91.37	68.418		
12,400.00	6,027.00	4,338.30	3,957.27	118.11	35.94	-61.14	10,821.93	-5,296.72	6,179.45	6,086.36	93.10	66.377		
12,500.00	6,027.00	4,340.26	3,959.00	119.82	35.96	-61.17	10,821.97	-5,297.63	6,108.38	6,013.51	94.87	64.388		
12,600.00	6,027.00	4,342.21	3,960.73	121.53	35.98	-61.20	10,822.01	-5,298.54	6,038.12	5,941.43	96.69	62.451		
12,700.00	6,027.00	4,344.17	3,962.47	123.24	35.99	-61.22	10,822.05	-5,299.45	5,968.71	5,870.16	98.55	60.565		
12,800.00	6,027.00	4,346.13	3,964.20	124.95	36.01	-61.25	10,822.08	-5,300.36	5,900.18	5,799.72	100.46	58.732		
12,900.00	6,027.00	4,348.09	3,965.93	126.66	36.03	-61.27	10,822.12	-5,301.27	5,832.56	5,730.15	102.41	56.951		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,000.00	6,027.00	4,350.04	3,967.67	128.38	36.05	-61.30	10,822.16	-5,302.18	5,765.88	5,661.47	104.41	55.222		
13,100.00	6,027.00	4,352.00	3,969.40	130.10	36.07	-61.33	10,822.20	-5,303.09	5,700.17	5,593.72	106.46	53.545		
13,200.00	6,027.00	4,353.96	3,971.13	131.82	36.09	-61.35	10,822.24	-5,304.01	5,635.47	5,526.93	108.54	51.919		
13,300.00	6,027.00	4,355.92	3,972.86	133.54	36.11	-61.38	10,822.27	-5,304.92	5,571.82	5,461.14	110.67	50.345		
13,400.00	6,027.00	4,357.88	3,974.60	135.26	36.13	-61.40	10,822.31	-5,305.83	5,509.24	5,396.39	112.85	48.821		
13,500.00	6,027.00	4,359.83	3,976.33	136.98	36.15	-61.43	10,822.35	-5,306.74	5,447.78	5,332.72	115.06	47.347		
13,600.00	6,027.00	4,361.79	3,978.06	138.71	36.17	-61.46	10,822.39	-5,307.65	5,387.47	5,270.15	117.32	45.923		
13,700.00	6,027.00	4,363.75	3,979.80	140.43	36.19	-61.48	10,822.43	-5,308.56	5,328.36	5,208.75	119.61	44.547		
13,800.00	6,027.00	4,365.71	3,981.53	142.16	36.21	-61.51	10,822.46	-5,309.47	5,270.48	5,148.53	121.95	43.220		
13,900.00	6,027.00	4,367.67	3,983.26	143.89	36.23	-61.53	10,822.50	-5,310.38	5,213.87	5,089.56	124.32	41.940		
14,000.00	6,027.00	4,369.62	3,985.00	145.62	36.25	-61.56	10,822.54	-5,311.29	5,158.58	5,031.86	126.72	40.708		
14,100.00	6,027.00	4,371.58	3,986.73	147.35	36.27	-61.59	10,822.58	-5,312.20	5,104.66	4,975.49	129.16	39.521		
14,200.00	6,027.00	4,373.54	3,988.46	149.08	36.29	-61.61	10,822.62	-5,313.11	5,052.13	4,920.49	131.64	38.379		
14,300.00	6,027.00	4,375.50	3,990.19	150.81	36.31	-61.64	10,822.66	-5,314.02	5,001.05	4,866.91	134.14	37.282		
14,400.00	6,027.00	4,377.45	3,991.93	152.54	36.33	-61.66	10,822.69	-5,314.93	4,951.47	4,814.80	136.67	36.229		
14,500.00	6,027.00	4,379.41	3,993.66	154.28	36.34	-61.69	10,822.73	-5,315.84	4,903.42	4,764.19	139.23	35.219		
14,600.00	6,027.00	4,381.37	3,995.39	156.01	36.36	-61.71	10,822.77	-5,316.75	4,856.95	4,715.15	141.81	34.250		
14,700.00	6,027.00	4,383.33	3,997.13	157.75	36.38	-61.74	10,822.81	-5,317.66	4,812.12	4,667.71	144.41	33.323		
14,800.00	6,027.00	4,385.29	3,998.86	159.49	36.40	-61.77	10,822.85	-5,318.57	4,768.96	4,621.93	147.03	32.436		
14,900.00	6,027.00	4,387.24	4,000.59	161.22	36.42	-61.79	10,822.88	-5,319.48	4,727.52	4,577.85	149.66	31.588		
15,000.00	6,027.00	4,389.20	4,002.32	162.96	36.44	-61.82	10,822.92	-5,320.39	4,687.84	4,535.54	152.31	30.779		
15,100.00	6,027.00	4,391.16	4,004.06	164.70	36.46	-61.84	10,822.96	-5,321.30	4,649.98	4,495.02	154.96	30.008		
15,200.00	6,027.00	4,393.12	4,005.79	166.44	36.48	-61.87	10,823.00	-5,322.21	4,613.97	4,456.36	157.62	29.273		
15,300.00	6,027.00	4,395.07	4,007.52	168.18	36.50	-61.90	10,823.04	-5,323.12	4,579.87	4,419.59	160.28	28.575		
15,400.00	6,027.00	4,397.03	4,009.26	169.93	36.52	-61.92	10,823.08	-5,324.03	4,547.70	4,384.77	162.93	27.912		
15,500.00	6,027.00	4,398.99	4,010.99	171.67	36.54	-61.95	10,823.11	-5,324.94	4,517.52	4,351.94	165.58	27.283		
15,600.00	6,027.00	4,400.95	4,012.72	173.41	36.56	-61.97	10,823.15	-5,325.85	4,489.37	4,321.15	168.22	26.688		
15,700.00	6,027.00	4,402.91	4,014.46	175.15	36.58	-62.00	10,823.19	-5,326.76	4,463.27	4,292.43	170.84	26.126		
15,800.00	6,027.00	4,404.86	4,016.19	176.90	36.60	-62.03	10,823.23	-5,327.67	4,439.28	4,265.84	173.44	25.595		
15,900.00	6,027.00	4,406.82	4,017.92	178.64	36.62	-62.05	10,823.27	-5,328.58	4,417.42	4,241.39	176.02	25.096		
16,000.00	6,027.00	4,408.78	4,019.65	180.39	36.64	-62.08	10,823.30	-5,329.49	4,397.72	4,219.14	178.58	24.626		
16,100.00	6,027.00	4,410.74	4,021.39	182.13	36.66	-62.10	10,823.34	-5,330.40	4,380.22	4,199.12	181.10	24.187		
16,200.00	6,027.00	4,412.69	4,023.12	183.88	36.68	-62.13	10,823.38	-5,331.31	4,364.94	4,181.35	183.59	23.776		
16,300.00	6,027.00	4,414.65	4,024.85	185.63	36.69	-62.16	10,823.42	-5,332.22	4,351.90	4,165.87	186.03	23.393		
16,400.00	6,027.00	4,416.61	4,026.59	187.38	36.71	-62.18	10,823.46	-5,333.13	4,341.13	4,152.69	188.43	23.038		
16,500.00	6,027.00	4,418.57	4,028.32	189.12	36.73	-62.21	10,823.49	-5,334.04	4,332.63	4,141.85	190.79	22.709		
16,600.00	6,027.00	4,420.53	4,030.05	190.87	36.75	-62.23	10,823.53	-5,334.95	4,326.44	4,133.35	193.09	22.406		
16,700.00	6,027.00	4,422.48	4,031.78	192.62	36.77	-62.26	10,823.57	-5,335.86	4,322.54	4,127.21	195.34	22.129		
16,795.97	6,027.00	4,424.36	4,033.45	194.30	36.79	-62.28	10,823.61	-5,336.74	4,320.98	4,123.54	197.43	21.886	CC, ES, SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,600.00	6,027.00	4,785.45	4,558.22	43.88	30.28	-66.91	10,831.94	-4,994.83	9,973.47	9,915.45	58.01	171.916		
7,700.00	6,027.00	4,787.80	4,560.43	44.99	30.30	-66.95	10,832.00	-4,995.63	9,881.03	9,823.25	57.78	171.014		
7,800.00	6,027.00	4,790.15	4,562.64	46.14	30.32	-66.98	10,832.05	-4,996.43	9,788.73	9,731.18	57.56	170.065		
7,900.00	6,027.00	4,792.50	4,564.85	47.33	30.33	-67.02	10,832.11	-4,997.22	9,696.60	9,639.24	57.35	169.064		
8,000.00	6,027.00	4,794.85	4,567.06	48.57	30.35	-67.06	10,832.16	-4,998.02	9,604.61	9,547.44	57.17	168.007		
8,100.00	6,027.00	4,797.20	4,569.27	49.84	30.37	-67.09	10,832.22	-4,998.81	9,512.79	9,455.79	57.00	166.891		
8,200.00	6,027.00	4,799.54	4,571.48	51.15	30.38	-67.13	10,832.27	-4,999.61	9,421.13	9,364.28	56.85	165.712		
8,300.00	6,027.00	4,801.89	4,573.69	52.48	30.40	-67.16	10,832.33	-5,000.40	9,329.65	9,272.92	56.73	164.465		
8,400.00	6,027.00	4,804.24	4,575.90	53.85	30.42	-67.20	10,832.38	-5,001.20	9,238.34	9,181.72	56.63	163.147		
8,500.00	6,027.00	4,806.59	4,578.11	55.24	30.44	-67.23	10,832.44	-5,002.00	9,147.21	9,090.66	56.55	161.754		
8,600.00	6,027.00	4,808.94	4,580.32	56.65	30.45	-67.27	10,832.49	-5,002.79	9,056.27	8,999.77	56.50	160.281		
8,700.00	6,027.00	4,811.29	4,582.53	58.08	30.47	-67.30	10,832.55	-5,003.59	8,965.52	8,909.04	56.48	158.728		
8,800.00	6,027.00	4,813.64	4,584.74	59.54	30.49	-67.34	10,832.60	-5,004.38	8,874.97	8,818.48	56.50	157.089		
8,900.00	6,027.00	4,815.99	4,586.95	61.01	30.50	-67.37	10,832.66	-5,005.18	8,784.63	8,728.08	56.54	155.365		
9,000.00	6,027.00	4,818.34	4,589.16	62.50	30.52	-67.41	10,832.71	-5,005.97	8,694.49	8,637.87	56.62	153.552		
9,100.00	6,027.00	4,820.69	4,591.37	64.01	30.54	-67.45	10,832.77	-5,006.77	8,604.57	8,547.83	56.74	151.650		
9,200.00	6,027.00	4,823.04	4,593.58	65.53	30.55	-67.48	10,832.82	-5,007.57	8,514.88	8,457.98	56.90	149.658		
9,300.00	6,027.00	4,825.39	4,595.79	67.06	30.57	-67.52	10,832.88	-5,008.36	8,425.42	8,368.32	57.09	147.579		
9,400.00	6,027.00	4,827.73	4,598.00	68.61	30.59	-67.55	10,832.93	-5,009.16	8,336.19	8,278.86	57.33	145.412		
9,500.00	6,027.00	4,830.08	4,600.21	70.17	30.61	-67.59	10,832.99	-5,009.95	8,247.21	8,189.61	57.61	143.160		
9,600.00	6,027.00	4,832.43	4,602.42	71.73	30.62	-67.62	10,833.04	-5,010.75	8,158.49	8,100.56	57.93	140.826		
9,700.00	6,027.00	4,834.78	4,604.63	73.31	30.64	-67.66	10,833.10	-5,011.54	8,070.03	8,011.73	58.30	138.414		
9,800.00	6,027.00	4,837.13	4,606.84	74.90	30.66	-67.69	10,833.15	-5,012.34	7,981.84	7,923.12	58.72	135.930		
9,900.00	6,027.00	4,839.48	4,609.05	76.50	30.67	-67.73	10,833.21	-5,013.14	7,893.94	7,834.75	59.19	133.377		
10,000.00	6,027.00	4,841.83	4,611.26	78.10	30.69	-67.77	10,833.26	-5,013.93	7,806.32	7,746.62	59.70	130.762		
10,100.00	6,027.00	4,844.18	4,613.47	79.71	30.71	-67.80	10,833.32	-5,014.73	7,719.00	7,658.74	60.26	128.091		
10,200.00	6,027.00	4,846.53	4,615.67	81.33	30.72	-67.84	10,833.37	-5,015.52	7,632.00	7,571.12	60.88	125.372		
10,300.00	6,027.00	4,848.88	4,617.88	82.96	30.74	-67.87	10,833.43	-5,016.32	7,545.31	7,483.78	61.54	122.610		
10,400.00	6,027.00	4,851.23	4,620.09	84.59	30.76	-67.91	10,833.48	-5,017.11	7,458.96	7,396.71	62.25	119.815		
10,500.00	6,027.00	4,853.58	4,622.30	86.23	30.78	-67.94	10,833.54	-5,017.91	7,372.95	7,309.93	63.02	116.993		
10,600.00	6,027.00	4,855.93	4,624.51	87.87	30.79	-67.98	10,833.59	-5,018.71	7,287.30	7,223.46	63.84	114.151		
10,700.00	6,027.00	4,858.27	4,626.72	89.52	30.81	-68.01	10,833.65	-5,019.50	7,202.02	7,137.31	64.71	111.296		
10,800.00	6,027.00	4,860.62	4,628.93	91.17	30.83	-68.05	10,833.70	-5,020.30	7,117.12	7,051.49	65.63	108.437		
10,900.00	6,027.00	4,862.97	4,631.14	92.83	30.84	-68.09	10,833.76	-5,021.09	7,032.62	6,966.01	66.61	105.579		
11,000.00	6,027.00	4,865.32	4,633.35	94.49	30.86	-68.12	10,833.81	-5,021.89	6,948.53	6,880.89	67.64	102.730		
11,100.00	6,027.00	4,867.67	4,635.56	96.16	30.88	-68.16	10,833.87	-5,022.68	6,864.86	6,796.14	68.72	99.895		
11,200.00	6,027.00	4,870.02	4,637.77	97.83	30.89	-68.19	10,833.92	-5,023.48	6,781.63	6,711.78	69.86	97.080		
11,300.00	6,027.00	4,872.37	4,639.98	99.50	30.91	-68.23	10,833.98	-5,024.28	6,698.87	6,627.82	71.05	94.290		
11,400.00	6,027.00	4,874.72	4,642.19	101.18	30.93	-68.26	10,834.03	-5,025.07	6,616.57	6,544.29	72.29	91.531		
11,500.00	6,027.00	4,877.07	4,644.40	102.86	30.95	-68.30	10,834.09	-5,025.87	6,534.78	6,461.19	73.58	88.807		
11,600.00	6,027.00	4,879.42	4,646.61	104.54	30.96	-68.33	10,834.14	-5,026.66	6,453.49	6,378.55	74.93	86.122		
11,700.00	6,027.00	4,881.77	4,648.82	106.23	30.98	-68.37	10,834.20	-5,027.46	6,372.73	6,296.39	76.34	83.480		
11,800.00	6,027.00	4,884.12	4,651.03	107.92	31.00	-68.41	10,834.25	-5,028.25	6,292.53	6,214.73	77.80	80.883		
11,900.00	6,027.00	4,886.46	4,653.24	109.61	31.01	-68.44	10,834.31	-5,029.05	6,212.90	6,133.59	79.31	78.335		
12,000.00	6,027.00	4,888.81	4,655.45	111.31	31.03	-68.48	10,834.36	-5,029.85	6,133.86	6,052.98	80.88	75.838		
12,100.00	6,027.00	4,891.16	4,657.66	113.00	31.05	-68.51	10,834.42	-5,030.64	6,055.45	5,972.94	82.51	73.394		
12,200.00	6,027.00	4,893.51	4,659.87	114.71	31.06	-68.55	10,834.47	-5,031.44	5,977.68	5,893.49	84.19	71.005		
12,300.00	6,027.00	4,895.86	4,662.08	116.41	31.08	-68.58	10,834.53	-5,032.23	5,900.57	5,814.65	85.92	68.673		
12,400.00	6,027.00	4,898.21	4,664.29	118.11	31.10	-68.62	10,834.58	-5,033.03	5,824.16	5,736.45	87.72	66.398		
12,500.00	6,027.00	4,900.56	4,666.50	119.82	31.12	-68.65	10,834.64	-5,033.82	5,748.48	5,658.91	89.56	64.182		
12,600.00	6,027.00	4,902.91	4,668.71	121.53	31.13	-68.69	10,834.69	-5,034.62	5,673.55	5,582.07	91.47	62.025		
12,700.00	6,027.00	4,905.26	4,670.92	123.24	31.15	-68.73	10,834.75	-5,035.42	5,599.39	5,505.96	93.43	59.928		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL 1													<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG													<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,800.00	6,027.00	4,907.61	4,673.13	124.95	31.17	-68.76	10,834.80	-5,036.21	5,526.06	5,430.60	95.46	57.891		
12,900.00	6,027.00	4,909.96	4,675.34	126.66	31.18	-68.80	10,834.86	-5,037.01	5,453.57	5,356.03	97.53	55.914		
13,000.00	6,027.00	4,912.31	4,677.55	128.38	31.20	-68.83	10,834.91	-5,037.80	5,381.96	5,282.28	99.67	53.997		
13,100.00	6,027.00	4,914.66	4,679.75	130.10	31.22	-68.87	10,834.97	-5,038.60	5,311.26	5,209.40	101.87	52.140		
13,200.00	6,027.00	4,917.00	4,681.96	131.82	31.24	-68.90	10,835.02	-5,039.39	5,241.52	5,137.40	104.12	50.342		
13,300.00	6,027.00	4,919.35	4,684.17	133.54	31.25	-68.94	10,835.08	-5,040.19	5,172.77	5,066.35	106.43	48.603		
13,400.00	6,027.00	4,921.70	4,686.38	135.26	31.27	-68.97	10,835.13	-5,040.99	5,105.06	4,996.26	108.80	46.923		
13,500.00	6,027.00	4,924.05	4,688.59	136.98	31.29	-69.01	10,835.19	-5,041.78	5,038.41	4,927.19	111.22	45.301		
13,600.00	6,027.00	4,926.40	4,690.80	138.71	31.30	-69.05	10,835.24	-5,042.58	4,972.89	4,859.19	113.70	43.736		
13,700.00	6,027.00	4,928.75	4,693.01	140.43	31.32	-69.08	10,835.30	-5,043.37	4,908.52	4,792.28	116.24	42.228		
13,800.00	6,027.00	4,931.10	4,695.22	142.16	31.34	-69.12	10,835.35	-5,044.17	4,845.37	4,726.54	118.83	40.775		
13,900.00	6,027.00	4,933.45	4,697.43	143.89	31.35	-69.15	10,835.41	-5,044.96	4,783.47	4,661.99	121.48	39.377		
14,000.00	6,027.00	4,935.80	4,699.64	145.62	31.37	-69.19	10,835.46	-5,045.76	4,722.87	4,598.69	124.18	38.033		
14,100.00	6,027.00	4,938.15	4,701.85	147.35	31.39	-69.22	10,835.52	-5,046.56	4,663.63	4,536.70	126.93	36.743		
14,200.00	6,027.00	4,940.50	4,704.06	149.08	31.41	-69.26	10,835.57	-5,047.35	4,605.80	4,476.07	129.73	35.504		
14,300.00	6,027.00	4,942.85	4,706.27	150.81	31.42	-69.29	10,835.63	-5,048.15	4,549.43	4,416.86	132.57	34.317		
14,400.00	6,027.00	4,945.20	4,708.48	152.54	31.44	-69.33	10,835.68	-5,048.94	4,494.58	4,359.11	135.46	33.179		
14,500.00	6,027.00	4,947.54	4,710.69	154.28	31.46	-69.37	10,835.74	-5,049.74	4,441.30	4,302.90	138.40	32.091		
14,600.00	6,027.00	4,949.89	4,712.90	156.01	31.47	-69.40	10,835.79	-5,050.53	4,389.65	4,248.28	141.37	31.051		
14,700.00	6,027.00	4,952.24	4,715.11	157.75	31.49	-69.44	10,835.85	-5,051.33	4,339.69	4,195.31	144.38	30.058		
14,800.00	6,027.00	4,954.59	4,717.32	159.49	31.51	-69.47	10,835.91	-5,052.13	4,291.48	4,144.06	147.41	29.112		
14,900.00	6,027.00	4,956.94	4,719.53	161.22	31.52	-69.51	10,835.96	-5,052.92	4,245.07	4,094.59	150.48	28.210		
15,000.00	6,027.00	4,959.29	4,721.74	162.96	31.54	-69.54	10,836.02	-5,053.72	4,200.53	4,046.96	153.57	27.353		
15,100.00	6,027.00	4,961.64	4,723.95	164.70	31.56	-69.58	10,836.07	-5,054.51	4,157.92	4,001.25	156.67	26.539		
15,200.00	6,027.00	4,963.99	4,726.16	166.44	31.58	-69.62	10,836.13	-5,055.31	4,117.30	3,957.50	159.79	25.766		
15,300.00	6,027.00	4,966.34	4,728.37	168.18	31.59	-69.65	10,836.18	-5,056.10	4,078.72	3,915.80	162.92	25.035		
15,400.00	6,027.00	4,968.69	4,730.58	169.93	31.61	-69.69	10,836.24	-5,056.90	4,042.25	3,876.20	166.04	24.344		
15,500.00	6,027.00	4,971.04	4,732.79	171.67	31.63	-69.72	10,836.29	-5,057.70	4,007.94	3,838.77	169.16	23.693		
15,600.00	6,027.00	4,973.39	4,735.00	173.41	31.64	-69.76	10,836.35	-5,058.49	3,975.84	3,803.57	172.27	23.079		
15,700.00	6,027.00	4,975.73	4,737.21	175.15	31.66	-69.79	10,836.40	-5,059.29	3,946.02	3,770.66	175.36	22.502		
15,800.00	6,027.00	4,978.08	4,739.42	176.90	31.68	-69.83	10,836.46	-5,060.08	3,918.53	3,740.11	178.42	21.962		
15,900.00	6,027.00	4,980.43	4,741.63	178.64	31.69	-69.86	10,836.51	-5,060.88	3,893.40	3,711.96	181.45	21.457		
16,000.00	6,027.00	4,982.78	4,743.83	180.39	31.71	-69.90	10,836.57	-5,061.67	3,870.70	3,686.27	184.43	20.987		
16,100.00	6,027.00	4,985.13	4,746.04	182.13	31.73	-69.94	10,836.62	-5,062.47	3,850.46	3,663.09	187.37	20.550		
16,200.00	6,027.00	4,987.48	4,748.25	183.88	31.75	-69.97	10,836.68	-5,063.27	3,832.72	3,642.47	190.25	20.145		
16,300.00	6,027.00	4,989.83	4,750.46	185.63	31.76	-70.01	10,836.73	-5,064.06	3,817.52	3,624.45	193.07	19.773		
16,400.00	6,027.00	4,992.18	4,752.67	187.38	31.78	-70.04	10,836.79	-5,064.86	3,804.89	3,609.07	195.82	19.431		
16,500.00	6,027.00	4,994.53	4,754.88	189.12	31.80	-70.08	10,836.84	-5,065.65	3,794.85	3,596.36	198.48	19.119		
16,600.00	6,027.00	4,996.88	4,757.09	190.87	31.81	-70.11	10,836.90	-5,066.45	3,787.42	3,586.35	201.07	18.837		
16,700.00	6,027.00	4,999.23	4,759.30	192.62	31.83	-70.15	10,836.95	-5,067.24	3,782.62	3,579.06	203.56	18.582		
16,795.97	6,027.00	5,001.48	4,761.42	194.30	31.85	-70.18	10,837.00	-5,068.01	3,780.49	3,574.63	205.86	18.365	CC, ES, SF	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL 2		Offset Site Error: 0.00 usft	
Survey Program: 138-MWD OWSG, 1665-MWD OWSG													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
7,600.00	6,027.00	4,839.82	4,607.81	43.88	30.46	-67.67	10,839.61	-5,008.32	9,978.17	9,919.99	58.18	171.514				
7,700.00	6,027.00	4,841.52	4,609.41	44.99	30.48	-67.70	10,839.64	-5,008.90	9,885.69	9,827.76	57.94	170.629				
7,800.00	6,027.00	4,843.23	4,611.01	46.14	30.49	-67.72	10,839.67	-5,009.49	9,793.37	9,735.66	57.71	169.696				
7,900.00	6,027.00	4,844.93	4,612.61	47.33	30.50	-67.75	10,839.70	-5,010.07	9,701.19	9,643.69	57.50	168.712				
8,000.00	6,027.00	4,846.63	4,614.21	48.57	30.51	-67.77	10,839.72	-5,010.65	9,609.18	9,551.87	57.31	167.672				
8,100.00	6,027.00	4,848.33	4,615.81	49.84	30.53	-67.80	10,839.75	-5,011.23	9,517.32	9,460.18	57.14	166.572				
8,200.00	6,027.00	4,850.04	4,617.41	51.15	30.54	-67.83	10,839.78	-5,011.81	9,425.63	9,368.64	56.98	165.410				
8,300.00	6,027.00	4,851.74	4,619.01	52.48	30.55	-67.85	10,839.81	-5,012.39	9,334.11	9,277.25	56.85	164.179				
8,400.00	6,027.00	4,853.44	4,620.61	53.85	30.56	-67.88	10,839.84	-5,012.97	9,242.76	9,186.01	56.75	162.877				
8,500.00	6,027.00	4,855.15	4,622.22	55.24	30.58	-67.90	10,839.87	-5,013.55	9,151.60	9,094.93	56.67	161.499				
8,600.00	6,027.00	4,856.85	4,623.82	56.65	30.59	-67.93	10,839.90	-5,014.13	9,060.62	9,004.00	56.61	160.043				
8,700.00	6,027.00	4,858.55	4,625.42	58.08	30.60	-67.95	10,839.93	-5,014.71	8,969.83	8,913.24	56.59	158.504				
8,800.00	6,027.00	4,860.26	4,627.02	59.54	30.61	-67.98	10,839.96	-5,015.29	8,879.24	8,822.64	56.60	156.881				
8,900.00	6,027.00	4,861.96	4,628.62	61.01	30.63	-68.01	10,839.98	-5,015.88	8,788.85	8,732.21	56.64	155.171				
9,000.00	6,027.00	4,863.66	4,630.22	62.50	30.64	-68.03	10,840.01	-5,016.46	8,698.68	8,641.96	56.72	153.373				
9,100.00	6,027.00	4,865.37	4,631.82	64.01	30.65	-68.06	10,840.04	-5,017.04	8,608.72	8,551.89	56.83	151.485				
9,200.00	6,027.00	4,867.07	4,633.42	65.53	30.66	-68.08	10,840.07	-5,017.62	8,518.98	8,462.00	56.98	149.507				
9,300.00	6,027.00	4,868.77	4,635.02	67.06	30.68	-68.11	10,840.10	-5,018.20	8,429.48	8,372.31	57.17	147.441				
9,400.00	6,027.00	4,870.48	4,636.62	68.61	30.69	-68.14	10,840.13	-5,018.78	8,340.21	8,282.81	57.41	145.287				
9,500.00	6,027.00	4,872.18	4,638.22	70.17	30.70	-68.16	10,840.16	-5,019.36	8,251.19	8,193.51	57.68	143.048				
9,600.00	6,027.00	4,873.88	4,639.82	71.73	30.71	-68.19	10,840.19	-5,019.94	8,162.42	8,104.42	58.00	140.726				
9,700.00	6,027.00	4,875.59	4,641.43	73.31	30.73	-68.21	10,840.22	-5,020.52	8,073.92	8,015.55	58.37	138.326				
9,800.00	6,027.00	4,877.29	4,643.03	74.90	30.74	-68.24	10,840.24	-5,021.10	7,985.68	7,926.90	58.78	135.853				
9,900.00	6,027.00	4,878.99	4,644.63	76.50	30.75	-68.26	10,840.27	-5,021.68	7,897.73	7,838.49	59.24	133.311				
10,000.00	6,027.00	4,880.70	4,646.23	78.10	30.76	-68.29	10,840.30	-5,022.26	7,810.07	7,750.31	59.75	130.706				
10,100.00	6,027.00	4,882.40	4,647.83	79.71	30.77	-68.32	10,840.33	-5,022.85	7,722.70	7,662.39	60.31	128.046				
10,200.00	6,027.00	4,884.10	4,649.43	81.33	30.79	-68.34	10,840.36	-5,023.43	7,635.65	7,574.72	60.92	125.336				
10,300.00	6,027.00	4,885.81	4,651.03	82.96	30.80	-68.37	10,840.39	-5,024.01	7,548.91	7,487.33	61.58	122.584				
10,400.00	6,027.00	4,887.51	4,652.63	84.59	30.81	-68.39	10,840.42	-5,024.59	7,462.51	7,400.22	62.29	119.797				
10,500.00	6,027.00	4,889.21	4,654.23	86.23	30.82	-68.42	10,840.45	-5,025.17	7,376.45	7,313.39	63.06	116.982				
10,600.00	6,027.00	4,890.91	4,655.83	87.87	30.84	-68.45	10,840.48	-5,025.75	7,290.74	7,226.87	63.87	114.148				
10,700.00	6,027.00	4,892.62	4,657.43	89.52	30.85	-68.47	10,840.50	-5,026.33	7,205.41	7,140.67	64.74	111.301				
10,800.00	6,027.00	4,894.32	4,659.03	91.17	30.86	-68.50	10,840.53	-5,026.91	7,120.45	7,054.79	65.66	108.448				
10,900.00	6,027.00	4,896.02	4,660.63	92.83	30.87	-68.52	10,840.56	-5,027.49	7,035.89	6,969.26	66.63	105.597				
11,000.00	6,027.00	4,897.73	4,662.24	94.49	30.89	-68.55	10,840.59	-5,028.07	6,951.74	6,884.09	67.65	102.753				
11,100.00	6,027.00	4,899.43	4,663.84	96.16	30.90	-68.57	10,840.62	-5,028.65	6,868.01	6,799.28	68.73	99.924				
11,200.00	6,027.00	4,901.13	4,665.44	97.83	30.91	-68.60	10,840.65	-5,029.24	6,784.73	6,714.86	69.86	97.114				
11,300.00	6,027.00	4,902.84	4,667.04	99.50	30.92	-68.63	10,840.68	-5,029.82	6,701.90	6,630.85	71.05	94.329				
11,400.00	6,027.00	4,904.54	4,668.64	101.18	30.94	-68.65	10,840.71	-5,030.40	6,619.54	6,547.26	72.29	91.574				
11,500.00	6,027.00	4,906.24	4,670.24	102.86	30.95	-68.68	10,840.74	-5,030.98	6,537.68	6,464.10	73.58	88.853				
11,600.00	6,027.00	4,907.95	4,671.84	104.54	30.96	-68.70	10,840.76	-5,031.56	6,456.33	6,381.40	74.92	86.172				
11,700.00	6,027.00	4,909.65	4,673.44	106.23	30.97	-68.73	10,840.79	-5,032.14	6,375.50	6,299.18	76.32	83.532				
11,800.00	6,027.00	4,911.35	4,675.04	107.92	30.99	-68.75	10,840.82	-5,032.72	6,295.23	6,217.45	77.78	80.938				
11,900.00	6,027.00	4,913.06	4,676.64	109.61	31.00	-68.78	10,840.85	-5,033.30	6,215.53	6,136.24	79.29	78.392				
12,000.00	6,027.00	4,914.76	4,678.24	111.31	31.01	-68.81	10,840.88	-5,033.88	6,136.42	6,055.57	80.85	75.897				
12,100.00	6,027.00	4,916.46	4,679.84	113.00	31.02	-68.83	10,840.91	-5,034.46	6,057.93	5,975.46	82.47	73.455				
12,200.00	6,027.00	4,918.17	4,681.45	114.71	31.04	-68.86	10,840.94	-5,035.04	5,980.08	5,895.94	84.15	71.067				
12,300.00	6,027.00	4,919.87	4,683.05	116.41	31.05	-68.88	10,840.97	-5,035.63	5,902.90	5,817.02	85.88	68.736				
12,400.00	6,027.00	4,921.57	4,684.65	118.11	31.06	-68.91	10,841.00	-5,036.21	5,826.41	5,738.75	87.66	66.462				
12,500.00	6,027.00	4,923.28	4,686.25	119.82	31.07	-68.94	10,841.02	-5,036.79	5,750.65	5,661.14	89.51	64.247				
12,600.00	6,027.00	4,924.98	4,687.85	121.53	31.08	-68.96	10,841.05	-5,037.37	5,675.63	5,584.22	91.41	62.090				
12,700.00	6,027.00	4,926.68	4,689.45	123.24	31.10	-68.99	10,841.08	-5,037.95	5,601.39	5,508.03	93.37	59.993				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG, 1665-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,800.00	6,027.00	4,928.39	4,691.05	124.95	31.11	-69.01	10,841.11	-5,038.53	5,527.97	5,432.59	95.38	57.955		
12,900.00	6,027.00	4,930.09	4,692.65	126.66	31.12	-69.04	10,841.14	-5,039.11	5,455.39	5,357.93	97.46	55.978		
13,000.00	6,027.00	4,931.79	4,694.25	128.38	31.13	-69.06	10,841.17	-5,039.69	5,383.69	5,284.10	99.59	54.060		
13,100.00	6,027.00	4,933.49	4,695.85	130.10	31.15	-69.09	10,841.20	-5,040.27	5,312.90	5,211.12	101.77	52.202		
13,200.00	6,027.00	4,935.20	4,697.45	131.82	31.16	-69.12	10,841.23	-5,040.85	5,243.06	5,139.04	104.02	50.404		
13,300.00	6,027.00	4,936.90	4,699.05	133.54	31.17	-69.14	10,841.26	-5,041.43	5,174.21	5,067.89	106.32	48.664		
13,400.00	6,027.00	4,938.60	4,700.66	135.26	31.18	-69.17	10,841.28	-5,042.01	5,106.39	4,997.71	108.69	46.983		
13,500.00	6,027.00	4,940.31	4,702.26	136.98	31.20	-69.19	10,841.31	-5,042.60	5,039.65	4,928.54	111.10	45.360		
13,600.00	6,027.00	4,942.01	4,703.86	138.71	31.21	-69.22	10,841.34	-5,043.18	4,974.02	4,860.44	113.58	43.793		
13,700.00	6,027.00	4,943.71	4,705.46	140.43	31.22	-69.25	10,841.37	-5,043.76	4,909.54	4,793.43	116.11	42.284		
13,800.00	6,027.00	4,945.42	4,707.06	142.16	31.23	-69.27	10,841.40	-5,044.34	4,846.27	4,727.58	118.70	40.830		
13,900.00	6,027.00	4,947.12	4,708.66	143.89	31.25	-69.30	10,841.43	-5,044.92	4,784.26	4,662.92	121.33	39.430		
14,000.00	6,027.00	4,948.82	4,710.26	145.62	31.26	-69.32	10,841.46	-5,045.50	4,723.55	4,599.52	124.03	38.085		
14,100.00	6,027.00	4,950.53	4,711.86	147.35	31.27	-69.35	10,841.49	-5,046.08	4,664.19	4,537.42	126.77	36.793		
14,200.00	6,027.00	4,952.23	4,713.46	149.08	31.28	-69.37	10,841.52	-5,046.66	4,606.23	4,476.67	129.56	35.552		
14,300.00	6,027.00	4,953.93	4,715.06	150.81	31.30	-69.40	10,841.54	-5,047.24	4,549.74	4,417.34	132.40	34.363		
14,400.00	6,027.00	4,955.64	4,716.66	152.54	31.31	-69.43	10,841.57	-5,047.82	4,494.76	4,359.47	135.29	33.224		
14,500.00	6,027.00	4,957.34	4,718.26	154.28	31.32	-69.45	10,841.60	-5,048.40	4,441.35	4,303.14	138.21	32.134		
14,600.00	6,027.00	4,959.04	4,719.87	156.01	31.33	-69.48	10,841.63	-5,048.99	4,389.57	4,248.39	141.18	31.093		
14,700.00	6,027.00	4,960.75	4,721.47	157.75	31.35	-69.50	10,841.66	-5,049.57	4,339.47	4,195.29	144.18	30.098		
14,800.00	6,027.00	4,962.45	4,723.07	159.49	31.36	-69.53	10,841.69	-5,050.15	4,291.12	4,143.91	147.21	29.150		
14,900.00	6,027.00	4,964.15	4,724.67	161.22	31.37	-69.56	10,841.72	-5,050.73	4,244.58	4,094.31	150.27	28.247		
15,000.00	6,027.00	4,965.86	4,726.27	162.96	31.38	-69.58	10,841.75	-5,051.31	4,199.90	4,046.55	153.35	27.388		
15,100.00	6,027.00	4,967.56	4,727.87	164.70	31.39	-69.61	10,841.78	-5,051.89	4,157.14	4,000.69	156.45	26.572		
15,200.00	6,027.00	4,969.26	4,729.47	166.44	31.41	-69.63	10,841.80	-5,052.47	4,116.37	3,956.81	159.56	25.798		
15,300.00	6,027.00	4,970.96	4,731.07	168.18	31.42	-69.66	10,841.83	-5,053.05	4,077.64	3,914.97	162.68	25.066		
15,400.00	6,027.00	4,972.67	4,732.67	169.93	31.43	-69.68	10,841.86	-5,053.63	4,041.02	3,875.23	165.80	24.373		
15,500.00	6,027.00	4,974.37	4,734.27	171.67	31.44	-69.71	10,841.89	-5,054.21	4,006.56	3,837.65	168.91	23.720		
15,600.00	6,027.00	4,976.07	4,735.87	173.41	31.46	-69.74	10,841.92	-5,054.79	3,974.32	3,802.31	172.01	23.105		
15,700.00	6,027.00	4,977.78	4,737.47	175.15	31.47	-69.76	10,841.95	-5,055.38	3,944.34	3,769.25	175.09	22.527		
15,800.00	6,027.00	4,979.48	4,739.08	176.90	31.48	-69.79	10,841.98	-5,055.96	3,916.69	3,738.55	178.14	21.986		
15,900.00	6,027.00	4,981.18	4,740.68	178.64	31.49	-69.81	10,842.01	-5,056.54	3,891.42	3,710.25	181.17	21.480		
16,000.00	6,027.00	4,982.89	4,742.28	180.39	31.51	-69.84	10,842.04	-5,057.12	3,868.56	3,684.42	184.14	21.008		
16,100.00	6,027.00	4,984.59	4,743.88	182.13	31.52	-69.87	10,842.06	-5,057.70	3,848.17	3,661.09	187.07	20.570		
16,200.00	6,027.00	4,986.29	4,745.48	183.88	31.53	-69.89	10,842.09	-5,058.28	3,830.28	3,640.33	189.95	20.165		
16,300.00	6,027.00	4,988.00	4,747.08	185.63	31.54	-69.92	10,842.12	-5,058.86	3,814.93	3,622.17	192.76	19.791		
16,400.00	6,027.00	4,989.70	4,748.68	187.38	31.56	-69.94	10,842.15	-5,059.44	3,802.14	3,606.64	195.50	19.449		
16,500.00	6,027.00	4,991.40	4,750.28	189.12	31.57	-69.97	10,842.18	-5,060.02	3,791.95	3,593.79	198.16	19.136		
16,600.00	6,027.00	4,993.11	4,751.88	190.87	31.58	-69.99	10,842.21	-5,060.60	3,784.37	3,583.64	200.73	18.853		
16,700.00	6,027.00	4,994.81	4,753.48	192.62	31.59	-70.02	10,842.24	-5,061.18	3,779.43	3,576.21	203.22	18.598		
16,795.97	6,027.00	4,996.44	4,755.02	194.30	31.60	-70.05	10,842.27	-5,061.74	3,777.17	3,571.66	205.51	18.380	CC, ES, SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-02 - OWB - SURFACE													Offset Site Error:	0.00 usft
Survey Program: 137-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,100.00	6,027.00	1,728.00	1,682.82	49.84	8.05	-29.19	10,786.78	-3,947.83	10,015.60	9,978.64	36.96	271.004		
8,200.00	6,027.00	1,728.00	1,682.82	51.15	8.05	-29.19	10,786.78	-3,947.83	9,929.04	9,892.14	36.91	269.026		
8,300.00	6,027.00	1,728.00	1,682.82	52.48	8.05	-29.19	10,786.78	-3,947.83	9,842.75	9,805.87	36.87	266.930		
8,400.00	6,027.00	1,728.00	1,682.82	53.85	8.05	-29.19	10,786.78	-3,947.83	9,756.71	9,719.85	36.86	264.711		
8,500.00	6,027.00	1,728.00	1,682.82	55.24	8.05	-29.19	10,786.78	-3,947.83	9,670.94	9,634.08	36.86	262.366		
8,600.00	6,027.00	1,728.00	1,682.82	56.65	8.05	-29.19	10,786.78	-3,947.83	9,585.45	9,548.57	36.88	259.893		
8,700.00	6,027.00	1,728.00	1,682.82	58.08	8.05	-29.19	10,786.78	-3,947.83	9,500.24	9,463.32	36.92	257.288		
8,800.00	6,027.00	1,728.00	1,682.82	59.54	8.05	-29.19	10,786.78	-3,947.83	9,415.32	9,378.34	36.99	254.550		
8,900.00	6,027.00	1,728.00	1,682.82	61.01	8.05	-29.19	10,786.78	-3,947.83	9,330.70	9,293.63	37.07	251.680		
9,000.00	6,027.00	1,728.00	1,682.82	62.50	8.05	-29.19	10,786.78	-3,947.83	9,246.39	9,209.21	37.18	248.675		
9,100.00	6,027.00	1,728.00	1,682.82	64.01	8.05	-29.19	10,786.78	-3,947.83	9,162.40	9,125.08	37.32	245.539		
9,200.00	6,027.00	1,728.00	1,682.82	65.53	8.05	-29.19	10,786.78	-3,947.83	9,078.72	9,041.25	37.47	242.272		
9,300.00	6,027.00	1,728.00	1,682.82	67.06	8.05	-29.19	10,786.78	-3,947.83	8,995.39	8,957.73	37.66	238.877		
9,400.00	6,027.00	1,728.00	1,682.82	68.61	8.05	-29.19	10,786.78	-3,947.83	8,912.39	8,874.52	37.87	235.358		
9,500.00	6,027.00	1,728.00	1,682.82	70.17	8.05	-29.19	10,786.78	-3,947.83	8,829.75	8,791.64	38.11	231.721		
9,600.00	6,027.00	1,728.00	1,682.82	71.73	8.05	-29.19	10,786.78	-3,947.83	8,747.47	8,709.10	38.37	227.970		
9,700.00	6,027.00	1,728.00	1,682.82	73.31	8.05	-29.19	10,786.78	-3,947.83	8,665.56	8,626.89	38.67	224.113		
9,800.00	6,027.00	1,728.00	1,682.82	74.90	8.05	-29.19	10,786.78	-3,947.83	8,584.03	8,545.04	38.99	220.156		
9,900.00	6,027.00	1,728.00	1,682.82	76.50	8.05	-29.19	10,786.78	-3,947.83	8,502.90	8,463.56	39.35	216.108		
10,000.00	6,027.00	1,728.00	1,682.82	78.10	8.05	-29.19	10,786.78	-3,947.83	8,422.18	8,382.45	39.73	211.978		
10,100.00	6,027.00	1,728.00	1,682.82	79.71	8.05	-29.19	10,786.78	-3,947.83	8,341.87	8,301.72	40.15	207.775		
10,200.00	6,027.00	1,728.00	1,682.82	81.33	8.05	-29.19	10,786.78	-3,947.83	8,262.00	8,221.40	40.60	203.509		
10,300.00	6,027.00	1,728.00	1,682.82	82.96	8.05	-29.19	10,786.78	-3,947.83	8,182.56	8,141.48	41.08	199.190		
10,400.00	6,027.00	1,728.00	1,682.82	84.59	8.05	-29.19	10,786.78	-3,947.83	8,103.58	8,061.99	41.59	194.828		
10,500.00	6,027.00	1,728.00	1,682.82	86.23	8.05	-29.19	10,786.78	-3,947.83	8,025.07	7,982.93	42.14	190.435		
10,600.00	6,027.00	1,728.00	1,682.82	87.87	8.05	-29.19	10,786.78	-3,947.83	7,947.04	7,904.32	42.72	186.019		
10,700.00	6,027.00	1,728.00	1,682.82	89.52	8.05	-29.19	10,786.78	-3,947.83	7,869.51	7,826.18	43.34	181.592		
10,800.00	6,027.00	1,728.00	1,682.82	91.17	8.05	-29.19	10,786.78	-3,947.83	7,792.50	7,748.51	43.98	177.164		
10,900.00	6,027.00	1,728.00	1,682.82	92.83	8.05	-29.19	10,786.78	-3,947.83	7,716.00	7,671.34	44.67	172.744		
11,000.00	6,027.00	1,728.00	1,682.82	94.49	8.05	-29.19	10,786.78	-3,947.83	7,640.06	7,594.67	45.38	168.341		
11,100.00	6,027.00	1,728.00	1,682.82	96.16	8.05	-29.19	10,786.78	-3,947.83	7,564.67	7,518.53	46.14	163.966		
11,200.00	6,027.00	1,728.00	1,682.82	97.83	8.05	-29.19	10,786.78	-3,947.83	7,489.85	7,442.93	46.92	159.625		
11,300.00	6,027.00	1,728.00	1,682.82	99.50	8.05	-29.19	10,786.78	-3,947.83	7,415.64	7,367.89	47.74	155.328		
11,400.00	6,027.00	1,728.00	1,682.82	101.18	8.05	-29.19	10,786.78	-3,947.83	7,342.03	7,293.43	48.60	151.081		
11,500.00	6,027.00	1,728.00	1,682.82	102.86	8.05	-29.19	10,786.78	-3,947.83	7,269.05	7,219.57	49.49	146.891		
11,600.00	6,027.00	1,728.00	1,682.82	104.54	8.05	-29.19	10,786.78	-3,947.83	7,196.73	7,146.32	50.41	142.764		
11,700.00	6,027.00	1,728.00	1,682.82	106.23	8.05	-29.19	10,786.78	-3,947.83	7,125.07	7,073.70	51.37	138.705		
11,800.00	6,027.00	1,728.00	1,682.82	107.92	8.05	-29.19	10,786.78	-3,947.83	7,054.10	7,001.74	52.36	134.720		
11,900.00	6,027.00	1,728.00	1,682.82	109.61	8.05	-29.19	10,786.78	-3,947.83	6,983.84	6,930.45	53.39	130.812		
12,000.00	6,027.00	1,728.00	1,682.82	111.31	8.05	-29.19	10,786.78	-3,947.83	6,914.32	6,859.87	54.45	126.986		
12,100.00	6,027.00	1,728.00	1,682.82	113.00	8.05	-29.19	10,786.78	-3,947.83	6,845.55	6,790.00	55.54	123.244		
12,200.00	6,027.00	1,728.00	1,682.82	114.71	8.05	-29.19	10,786.78	-3,947.83	6,777.56	6,720.88	56.67	119.590		
12,300.00	6,027.00	1,728.00	1,682.82	116.41	8.05	-29.19	10,786.78	-3,947.83	6,710.37	6,652.53	57.84	116.024		
12,400.00	6,027.00	1,728.00	1,682.82	118.11	8.05	-29.19	10,786.78	-3,947.83	6,644.00	6,584.97	59.03	112.550		
12,500.00	6,027.00	1,728.00	1,682.82	119.82	8.05	-29.19	10,786.78	-3,947.83	6,578.49	6,518.23	60.26	109.168		
12,600.00	6,027.00	1,728.00	1,682.82	121.53	8.05	-29.19	10,786.78	-3,947.83	6,513.85	6,452.33	61.52	105.880		
12,700.00	6,027.00	1,728.00	1,682.82	123.24	8.05	-29.19	10,786.78	-3,947.83	6,450.11	6,387.30	62.81	102.685		
12,800.00	6,027.00	1,728.00	1,682.82	124.95	8.05	-29.19	10,786.78	-3,947.83	6,387.31	6,323.17	64.14	99.584		
12,900.00	6,027.00	1,728.00	1,682.82	126.66	8.05	-29.19	10,786.78	-3,947.83	6,325.46	6,259.96	65.50	96.577		
13,000.00	6,027.00	1,728.00	1,682.82	128.38	8.05	-29.19	10,786.78	-3,947.83	6,264.59	6,197.71	66.88	93.663		
13,100.00	6,027.00	1,728.00	1,682.82	130.10	8.05	-29.19	10,786.78	-3,947.83	6,204.75	6,136.44	68.30	90.843		
13,200.00	6,027.00	1,728.00	1,682.82	131.82	8.05	-29.19	10,786.78	-3,947.83	6,145.94	6,076.19	69.75	88.115		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-02 - OWB - SURFACE													Offset Site Error:	0.00 usft
Survey Program: 137-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,300.00	6,027.00	1,728.00	1,682.82	133.54	8.05	-29.19	10,786.78	-3,947.83	6,088.21	6,016.99	71.23	85.478		
13,400.00	6,027.00	1,728.00	1,682.82	135.26	8.05	-29.19	10,786.78	-3,947.83	6,031.59	5,958.86	72.73	82.931		
13,500.00	6,027.00	1,728.00	1,682.82	136.98	8.05	-29.19	10,786.78	-3,947.83	5,976.10	5,901.84	74.26	80.473		
13,600.00	6,027.00	1,728.00	1,682.82	138.71	8.05	-29.19	10,786.78	-3,947.83	5,921.79	5,845.97	75.82	78.103		
13,700.00	6,027.00	1,728.00	1,682.82	140.43	8.05	-29.19	10,786.78	-3,947.83	5,868.67	5,791.27	77.40	75.819		
13,800.00	6,027.00	1,728.00	1,682.82	142.16	8.05	-29.19	10,786.78	-3,947.83	5,816.79	5,737.78	79.01	73.620		
13,900.00	6,027.00	1,728.00	1,682.82	143.89	8.05	-29.19	10,786.78	-3,947.83	5,766.17	5,685.53	80.64	71.503		
14,000.00	6,027.00	1,728.00	1,682.82	145.62	8.05	-29.19	10,786.78	-3,947.83	5,716.86	5,634.56	82.30	69.468		
14,100.00	6,027.00	1,728.00	1,682.82	147.35	8.05	-29.19	10,786.78	-3,947.83	5,668.88	5,584.91	83.97	67.512		
14,200.00	6,027.00	1,728.00	1,682.82	149.08	8.05	-29.19	10,786.78	-3,947.83	5,622.27	5,536.61	85.66	65.634		
14,300.00	6,027.00	1,728.00	1,682.82	150.81	8.05	-29.19	10,786.78	-3,947.83	5,577.07	5,489.70	87.37	63.832		
14,400.00	6,027.00	1,728.00	1,682.82	152.54	8.05	-29.19	10,786.78	-3,947.83	5,533.30	5,444.20	89.10	62.105		
14,500.00	6,027.00	1,728.00	1,682.82	154.28	8.05	-29.19	10,786.78	-3,947.83	5,491.01	5,400.17	90.84	60.449		
14,600.00	6,027.00	1,728.00	1,682.82	156.01	8.05	-29.19	10,786.78	-3,947.83	5,450.22	5,357.63	92.59	58.865		
14,700.00	6,027.00	1,728.00	1,682.82	157.75	8.05	-29.19	10,786.78	-3,947.83	5,410.97	5,316.62	94.35	57.349		
14,800.00	6,027.00	1,728.00	1,682.82	159.49	8.05	-29.19	10,786.78	-3,947.83	5,373.30	5,277.18	96.12	55.901		
14,900.00	6,027.00	1,728.00	1,682.82	161.22	8.05	-29.19	10,786.78	-3,947.83	5,337.24	5,239.34	97.90	54.518		
15,000.00	6,027.00	1,728.00	1,682.82	162.96	8.05	-29.19	10,786.78	-3,947.83	5,302.81	5,203.13	99.68	53.199		
15,100.00	6,027.00	1,728.00	1,682.82	164.70	8.05	-29.19	10,786.78	-3,947.83	5,270.06	5,168.60	101.46	51.942		
15,200.00	6,027.00	1,728.00	1,682.82	166.44	8.05	-29.19	10,786.78	-3,947.83	5,239.02	5,135.77	103.24	50.745		
15,300.00	6,027.00	1,728.00	1,682.82	168.18	8.05	-29.19	10,786.78	-3,947.83	5,209.71	5,104.68	105.02	49.607		
15,400.00	6,027.00	1,728.00	1,682.82	169.93	8.05	-29.19	10,786.78	-3,947.83	5,182.16	5,075.36	106.79	48.525		
15,500.00	6,027.00	1,728.00	1,682.82	171.67	8.05	-29.19	10,786.78	-3,947.83	5,156.40	5,047.85	108.56	47.499		
15,600.00	6,027.00	1,728.00	1,682.82	173.41	8.05	-29.19	10,786.78	-3,947.83	5,132.47	5,022.16	110.31	46.528		
15,700.00	6,027.00	1,728.00	1,682.82	175.15	8.05	-29.19	10,786.78	-3,947.83	5,110.38	4,998.33	112.05	45.608		
15,800.00	6,027.00	1,728.00	1,682.82	176.90	8.05	-29.19	10,786.78	-3,947.83	5,090.16	4,976.38	113.77	44.739		
15,900.00	6,027.00	1,728.00	1,682.82	178.64	8.05	-29.19	10,786.78	-3,947.83	5,071.83	4,956.35	115.48	43.920		
16,000.00	6,027.00	1,728.00	1,682.82	180.39	8.05	-29.19	10,786.78	-3,947.83	5,055.41	4,938.25	117.16	43.149		
16,100.00	6,027.00	1,728.00	1,682.82	182.13	8.05	-29.19	10,786.78	-3,947.83	5,040.92	4,922.10	118.82	42.425		
16,200.00	6,027.00	1,728.00	1,682.82	183.88	8.05	-29.19	10,786.78	-3,947.83	5,028.38	4,907.93	120.45	41.745		
16,300.00	6,027.00	1,728.00	1,682.82	185.63	8.05	-29.19	10,786.78	-3,947.83	5,017.81	4,895.75	122.06	41.110		
16,400.00	6,027.00	1,728.00	1,682.82	187.38	8.05	-29.19	10,786.78	-3,947.83	5,009.20	4,885.57	123.63	40.518		
16,500.00	6,027.00	1,728.00	1,682.82	189.12	8.05	-29.19	10,786.78	-3,947.83	5,002.58	4,877.41	125.17	39.967		
16,600.00	6,027.00	1,728.00	1,682.82	190.87	8.05	-29.19	10,786.78	-3,947.83	4,997.96	4,871.29	126.67	39.456		
16,700.00	6,027.00	1,728.00	1,682.82	192.62	8.05	-29.19	10,786.78	-3,947.83	4,995.33	4,867.19	128.14	38.985		
16,781.33	6,027.00	1,728.00	1,682.82	194.04	8.05	-29.19	10,786.78	-3,947.83	4,994.67	4,865.37	129.30	38.629 CC		
16,795.97	6,027.00	1,728.00	1,682.82	194.30	8.05	-29.19	10,786.78	-3,947.83	4,994.69	4,865.18	129.50	38.568 ES, SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,300.00	6,027.00	5,300.06	5,215.24	40.89	24.30	-74.59	10,833.33	-4,515.76	10,024.64	9,970.32	54.31	184.578		
7,400.00	6,027.00	5,302.49	5,217.62	41.83	24.31	-74.64	10,833.39	-4,516.23	9,929.64	9,875.59	54.05	183.714		
7,500.00	6,027.00	5,304.91	5,220.00	42.83	24.32	-74.68	10,833.45	-4,516.70	9,834.74	9,780.95	53.79	182.823		
7,600.00	6,027.00	5,307.34	5,222.38	43.88	24.34	-74.73	10,833.50	-4,517.17	9,739.94	9,686.40	53.54	181.902		
7,700.00	6,027.00	5,309.77	5,224.76	44.99	24.35	-74.77	10,833.56	-4,517.64	9,645.25	9,591.95	53.30	180.947		
7,800.00	6,027.00	5,312.19	5,227.14	46.14	24.36	-74.82	10,833.62	-4,518.11	9,550.66	9,497.59	53.07	179.956		
7,900.00	6,027.00	5,314.62	5,229.52	47.33	24.37	-74.86	10,833.68	-4,518.58	9,456.19	9,403.34	52.85	178.925		
8,000.00	6,027.00	5,317.05	5,231.90	48.57	24.38	-74.91	10,833.74	-4,519.05	9,361.83	9,309.19	52.64	177.851		
8,100.00	6,027.00	5,319.47	5,234.28	49.84	24.40	-74.95	10,833.80	-4,519.52	9,267.59	9,215.15	52.44	176.730		
8,200.00	6,027.00	5,321.90	5,236.66	51.15	24.41	-74.99	10,833.86	-4,519.99	9,173.46	9,121.21	52.25	175.557		
8,300.00	6,027.00	5,324.33	5,239.04	52.48	24.42	-75.04	10,833.92	-4,520.46	9,079.47	9,027.39	52.08	174.330		
8,400.00	6,027.00	5,326.75	5,241.42	53.85	24.43	-75.08	10,833.97	-4,520.93	8,985.60	8,933.67	51.93	173.044		
8,500.00	6,027.00	5,329.18	5,243.80	55.24	24.44	-75.13	10,834.03	-4,521.39	8,891.87	8,840.08	51.79	171.694		
8,600.00	6,027.00	5,331.61	5,246.18	56.65	24.46	-75.17	10,834.09	-4,521.86	8,798.27	8,746.60	51.67	170.276		
8,700.00	6,027.00	5,334.03	5,248.56	58.08	24.47	-75.22	10,834.15	-4,522.33	8,704.81	8,653.24	51.57	168.787		
8,800.00	6,027.00	5,336.46	5,250.94	59.54	24.48	-75.26	10,834.21	-4,522.80	8,611.50	8,560.01	51.50	167.223		
8,900.00	6,027.00	5,338.89	5,253.32	61.01	24.49	-75.31	10,834.27	-4,523.27	8,518.35	8,466.90	51.45	165.578		
9,000.00	6,027.00	5,341.31	5,255.71	62.50	24.50	-75.35	10,834.33	-4,523.74	8,425.35	8,373.92	51.42	163.851		
9,100.00	6,027.00	5,343.74	5,258.09	64.01	24.52	-75.40	10,834.39	-4,524.21	8,332.50	8,281.08	51.42	162.038		
9,200.00	6,027.00	5,346.17	5,260.47	65.53	24.53	-75.44	10,834.44	-4,524.68	8,239.83	8,188.38	51.46	160.135		
9,300.00	6,027.00	5,348.59	5,262.85	67.06	24.54	-75.48	10,834.50	-4,525.15	8,147.33	8,095.81	51.52	158.141		
9,400.00	6,027.00	5,351.02	5,265.23	68.61	24.55	-75.53	10,834.56	-4,525.62	8,055.01	8,003.39	51.62	156.053		
9,500.00	6,027.00	5,353.45	5,267.61	70.17	24.56	-75.57	10,834.62	-4,526.09	7,962.87	7,911.12	51.75	153.872		
9,600.00	6,027.00	5,355.87	5,269.99	71.73	24.57	-75.62	10,834.68	-4,526.56	7,870.92	7,819.00	51.92	151.596		
9,700.00	6,027.00	5,358.30	5,272.37	73.31	24.59	-75.66	10,834.74	-4,527.02	7,779.17	7,727.04	52.13	149.227		
9,800.00	6,027.00	5,360.73	5,274.75	74.90	24.60	-75.71	10,834.80	-4,527.49	7,687.63	7,635.25	52.38	146.766		
9,900.00	6,027.00	5,363.15	5,277.13	76.50	24.61	-75.75	10,834.86	-4,527.96	7,596.30	7,543.63	52.67	144.214		
10,000.00	6,027.00	5,365.58	5,279.51	78.10	24.62	-75.80	10,834.91	-4,528.43	7,505.19	7,452.18	53.01	141.577		
10,100.00	6,027.00	5,368.01	5,281.89	79.71	24.63	-75.84	10,834.97	-4,528.90	7,414.31	7,360.91	53.40	138.857		
10,200.00	6,027.00	5,370.43	5,284.27	81.33	24.65	-75.89	10,835.03	-4,529.37	7,323.66	7,269.83	53.83	136.061		
10,300.00	6,027.00	5,372.86	5,286.65	82.96	24.66	-75.93	10,835.09	-4,529.84	7,233.26	7,178.95	54.31	133.193		
10,400.00	6,027.00	5,375.29	5,289.03	84.59	24.67	-75.97	10,835.15	-4,530.31	7,143.12	7,088.28	54.84	130.260		
10,500.00	6,027.00	5,377.71	5,291.41	86.23	24.68	-76.02	10,835.21	-4,530.78	7,053.24	6,997.82	55.42	127.271		
10,600.00	6,027.00	5,380.14	5,293.79	87.87	24.69	-76.06	10,835.27	-4,531.25	6,963.63	6,907.58	56.05	124.231		
10,700.00	6,027.00	5,382.57	5,296.17	89.52	24.71	-76.11	10,835.33	-4,531.72	6,874.31	6,817.57	56.74	121.149		
10,800.00	6,027.00	5,384.99	5,298.55	91.17	24.72	-76.15	10,835.39	-4,532.18	6,785.29	6,727.80	57.49	118.035		
10,900.00	6,027.00	5,387.42	5,300.93	92.83	24.73	-76.20	10,835.44	-4,532.65	6,696.58	6,638.29	58.28	114.895		
11,000.00	6,027.00	5,389.85	5,303.31	94.49	24.74	-76.24	10,835.50	-4,533.12	6,608.18	6,549.04	59.14	111.738		
11,100.00	6,027.00	5,392.27	5,305.69	96.16	24.75	-76.29	10,835.56	-4,533.59	6,520.13	6,460.08	60.05	108.574		
11,200.00	6,027.00	5,394.70	5,308.07	97.83	24.77	-76.33	10,835.62	-4,534.06	6,432.42	6,371.40	61.02	105.409		
11,300.00	6,027.00	5,397.13	5,310.45	99.50	24.78	-76.38	10,835.68	-4,534.53	6,345.07	6,283.02	62.05	102.252		
11,400.00	6,027.00	5,399.55	5,312.83	101.18	24.79	-76.42	10,835.74	-4,535.00	6,258.10	6,194.96	63.14	99.110		
11,500.00	6,027.00	5,401.98	5,315.21	102.86	24.80	-76.47	10,835.80	-4,535.47	6,171.53	6,107.24	64.29	95.991		
11,600.00	6,027.00	5,404.41	5,317.59	104.54	24.81	-76.51	10,835.86	-4,535.94	6,085.37	6,019.86	65.50	92.901		
11,700.00	6,027.00	5,406.83	5,319.97	106.23	24.83	-76.56	10,835.91	-4,536.41	5,999.63	5,932.85	66.78	89.845		
11,800.00	6,027.00	5,409.26	5,322.35	107.92	24.84	-76.60	10,835.97	-4,536.88	5,914.34	5,846.23	68.11	86.831		
11,900.00	6,027.00	5,411.69	5,324.73	109.61	24.85	-76.64	10,836.03	-4,537.35	5,829.52	5,760.01	69.51	83.862		
12,000.00	6,027.00	5,414.12	5,327.11	111.31	24.86	-76.69	10,836.09	-4,537.81	5,745.19	5,674.21	70.98	80.943		
12,100.00	6,027.00	5,416.54	5,329.49	113.00	24.87	-76.73	10,836.15	-4,538.28	5,661.36	5,588.85	72.51	78.079		
12,200.00	6,027.00	5,418.97	5,331.87	114.71	24.89	-76.78	10,836.21	-4,538.75	5,578.07	5,503.96	74.10	75.273		
12,300.00	6,027.00	5,421.40	5,334.25	116.41	24.90	-76.82	10,836.27	-4,539.22	5,495.33	5,419.56	75.77	72.528		
12,400.00	6,027.00	5,423.82	5,336.63	118.11	24.91	-76.87	10,836.33	-4,539.69	5,413.18	5,335.67	77.50	69.847		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,500.00	6,027.00	5,426.25	5,339.01	119.82	24.92	-76.91	10,836.38	-4,540.16	5,331.63	5,252.33	79.30	67.231		
12,600.00	6,027.00	5,428.68	5,341.39	121.53	24.93	-76.96	10,836.44	-4,540.63	5,250.72	5,169.54	81.18	64.683		
12,700.00	6,027.00	5,431.10	5,343.77	123.24	24.95	-77.00	10,836.50	-4,541.10	5,170.48	5,087.35	83.12	62.205		
12,800.00	6,027.00	5,433.53	5,346.15	124.95	24.96	-77.05	10,836.56	-4,541.57	5,090.93	5,005.79	85.14	59.796		
12,900.00	6,027.00	5,435.96	5,348.53	126.66	24.97	-77.09	10,836.62	-4,542.04	5,012.12	4,924.89	87.23	57.459		
13,000.00	6,027.00	5,438.38	5,350.91	128.38	24.98	-77.14	10,836.68	-4,542.51	4,934.07	4,844.67	89.40	55.193		
13,100.00	6,027.00	5,440.81	5,353.29	130.10	24.99	-77.18	10,836.74	-4,542.98	4,856.83	4,765.19	91.64	52.999		
13,200.00	6,027.00	5,443.24	5,355.67	131.82	25.01	-77.23	10,836.80	-4,543.44	4,780.43	4,686.47	93.96	50.877		
13,300.00	6,027.00	5,445.66	5,358.05	133.54	25.02	-77.27	10,836.85	-4,543.91	4,704.91	4,608.55	96.36	48.827		
13,400.00	6,027.00	5,448.09	5,360.43	135.26	25.03	-77.31	10,836.91	-4,544.38	4,630.32	4,531.48	98.84	46.848		
13,500.00	6,027.00	5,450.52	5,362.81	136.98	25.04	-77.36	10,836.97	-4,544.85	4,556.70	4,455.31	101.40	44.940		
13,600.00	6,027.00	5,452.94	5,365.19	138.71	25.05	-77.40	10,837.03	-4,545.32	4,484.11	4,380.07	104.03	43.102		
13,700.00	6,027.00	5,455.37	5,367.57	140.43	25.06	-77.45	10,837.09	-4,545.79	4,412.58	4,305.83	106.75	41.334		
13,800.00	6,027.00	5,457.80	5,369.95	142.16	25.08	-77.49	10,837.15	-4,546.26	4,342.18	4,232.62	109.56	39.634		
13,900.00	6,027.00	5,460.22	5,372.33	143.89	25.09	-77.54	10,837.21	-4,546.73	4,272.96	4,160.52	112.44	38.002		
14,000.00	6,027.00	5,462.65	5,374.71	145.62	25.10	-77.58	10,837.27	-4,547.20	4,204.97	4,089.56	115.40	36.437		
14,100.00	6,027.00	5,465.08	5,377.10	147.35	25.11	-77.63	10,837.33	-4,547.67	4,138.28	4,019.83	118.45	34.937		
14,200.00	6,027.00	5,467.50	5,379.48	149.08	25.12	-77.67	10,837.38	-4,548.14	4,072.96	3,951.38	121.57	33.502		
14,300.00	6,027.00	5,469.93	5,381.86	150.81	25.14	-77.72	10,837.44	-4,548.60	4,009.06	3,884.28	124.78	32.130		
14,400.00	6,027.00	5,472.36	5,384.24	152.54	25.15	-77.76	10,837.50	-4,549.07	3,946.66	3,818.60	128.06	30.820		
14,500.00	6,027.00	5,474.78	5,386.62	154.28	25.16	-77.81	10,837.56	-4,549.54	3,885.83	3,754.42	131.41	29.570		
14,600.00	6,027.00	5,477.21	5,389.00	156.01	25.17	-77.85	10,837.62	-4,550.01	3,826.65	3,691.81	134.83	28.380		
14,700.00	6,027.00	5,479.64	5,391.38	157.75	25.18	-77.90	10,837.68	-4,550.48	3,769.19	3,630.86	138.32	27.249		
14,800.00	6,027.00	5,482.06	5,393.76	159.49	25.20	-77.94	10,837.74	-4,550.95	3,713.53	3,571.65	141.88	26.174		
14,900.00	6,027.00	5,484.49	5,396.14	161.22	25.21	-77.99	10,837.80	-4,551.42	3,659.75	3,514.27	145.49	25.155		
15,000.00	6,027.00	5,486.92	5,398.52	162.96	25.22	-78.03	10,837.85	-4,551.89	3,607.95	3,458.80	149.15	24.190		
15,100.00	6,027.00	5,489.34	5,400.90	164.70	25.23	-78.07	10,837.91	-4,552.36	3,558.20	3,405.35	152.85	23.278		
15,200.00	6,027.00	5,491.77	5,403.28	166.44	25.24	-78.12	10,837.97	-4,552.83	3,510.59	3,354.00	156.59	22.418		
15,300.00	6,027.00	5,494.20	5,405.66	168.18	25.26	-78.16	10,838.03	-4,553.30	3,465.22	3,304.85	160.36	21.609		
15,400.00	6,027.00	5,496.62	5,408.04	169.93	25.27	-78.21	10,838.09	-4,553.77	3,422.16	3,258.01	164.15	20.848		
15,500.00	6,027.00	5,499.05	5,410.42	171.67	25.28	-78.25	10,838.15	-4,554.23	3,381.51	3,213.57	167.94	20.136		
15,600.00	6,027.00	5,501.48	5,412.80	173.41	25.29	-78.30	10,838.21	-4,554.70	3,343.36	3,171.64	171.72	19.470		
15,700.00	6,027.00	5,503.90	5,415.18	175.15	25.30	-78.34	10,838.27	-4,555.17	3,307.79	3,132.30	175.49	18.849		
15,800.00	6,027.00	5,506.33	5,417.56	176.90	25.32	-78.39	10,838.32	-4,555.64	3,274.89	3,095.66	179.22	18.273		
15,900.00	6,027.00	5,508.76	5,419.94	178.64	25.33	-78.43	10,838.38	-4,556.11	3,244.73	3,061.82	182.91	17.739		
16,000.00	6,027.00	5,511.18	5,422.32	180.39	25.34	-78.48	10,838.44	-4,556.58	3,217.40	3,030.86	186.54	17.248		
16,100.00	6,027.00	5,513.61	5,424.70	182.13	25.35	-78.52	10,838.50	-4,557.05	3,192.96	3,002.87	190.09	16.797		
16,200.00	6,027.00	5,516.04	5,427.08	183.88	25.36	-78.57	10,838.56	-4,557.52	3,171.49	2,977.94	193.56	16.385		
16,300.00	6,027.00	5,518.46	5,429.46	185.63	25.38	-78.61	10,838.62	-4,557.99	3,153.05	2,956.14	196.91	16.012		
16,400.00	6,027.00	5,520.89	5,431.84	187.38	25.39	-78.66	10,838.68	-4,558.46	3,137.68	2,937.53	200.15	15.676		
16,500.00	6,027.00	5,523.32	5,434.22	189.12	25.40	-78.70	10,838.74	-4,558.93	3,125.44	2,922.18	203.26	15.377		
16,600.00	6,027.00	5,525.74	5,436.60	190.87	25.41	-78.75	10,838.79	-4,559.40	3,116.36	2,910.14	206.22	15.112		
16,700.00	6,027.00	5,528.17	5,438.98	192.62	25.42	-78.79	10,838.85	-4,559.86	3,110.47	2,901.44	209.02	14.881		
16,795.97	6,027.00	5,530.50	5,441.26	194.30	25.43	-78.83	10,838.91	-4,560.31	3,107.82	2,896.27	211.55	14.690 CC, ES, SF		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 137-MWD OWSG, 1672-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,400.00	6,027.00	5,139.24	5,011.82	41.83	25.97	-72.02	10,845.15	-4,689.11	10,013.56	9,958.36	55.19	181.431		
7,500.00	6,027.00	5,141.30	5,013.82	42.83	25.98	-72.05	10,845.19	-4,689.64	9,919.34	9,864.41	54.93	180.576		
7,600.00	6,027.00	5,143.37	5,015.82	43.88	25.99	-72.09	10,845.24	-4,690.16	9,825.24	9,770.56	54.68	179.686		
7,700.00	6,027.00	5,145.44	5,017.81	44.99	26.00	-72.13	10,845.28	-4,690.68	9,731.26	9,676.82	54.44	178.759		
7,800.00	6,027.00	5,147.50	5,019.81	46.14	26.02	-72.16	10,845.32	-4,691.20	9,637.39	9,583.19	54.21	177.791		
7,900.00	6,027.00	5,149.57	5,021.81	47.33	26.03	-72.20	10,845.36	-4,691.72	9,543.65	9,489.67	53.99	176.778		
8,000.00	6,027.00	5,151.63	5,023.81	48.57	26.04	-72.23	10,845.41	-4,692.24	9,450.04	9,396.26	53.78	175.717		
8,100.00	6,027.00	5,153.70	5,025.81	49.84	26.05	-72.27	10,845.45	-4,692.77	9,356.56	9,302.98	53.59	174.603		
8,200.00	6,027.00	5,155.77	5,027.81	51.15	26.06	-72.30	10,845.49	-4,693.29	9,263.22	9,209.81	53.41	173.432		
8,300.00	6,027.00	5,157.83	5,029.81	52.48	26.07	-72.34	10,845.53	-4,693.81	9,170.02	9,116.76	53.25	172.200		
8,400.00	6,027.00	5,159.90	5,031.81	53.85	26.09	-72.37	10,845.58	-4,694.33	9,076.96	9,023.85	53.11	170.903		
8,500.00	6,027.00	5,161.97	5,033.80	55.24	26.10	-72.41	10,845.62	-4,694.85	8,984.05	8,931.05	52.99	169.537		
8,600.00	6,027.00	5,164.03	5,035.80	56.65	26.11	-72.44	10,845.66	-4,695.38	8,891.29	8,838.40	52.89	168.097		
8,700.00	6,027.00	5,166.10	5,037.80	58.08	26.12	-72.48	10,845.70	-4,695.90	8,798.69	8,745.87	52.82	166.580		
8,800.00	6,027.00	5,168.16	5,039.80	59.54	26.13	-72.51	10,845.75	-4,696.42	8,706.25	8,653.48	52.77	164.982		
8,900.00	6,027.00	5,170.23	5,041.80	61.01	26.15	-72.55	10,845.79	-4,696.94	8,613.99	8,561.24	52.75	163.299		
9,000.00	6,027.00	5,172.30	5,043.80	62.50	26.16	-72.59	10,845.83	-4,697.46	8,521.89	8,469.13	52.76	161.528		
9,100.00	6,027.00	5,174.36	5,045.80	64.01	26.17	-72.62	10,845.88	-4,697.99	8,429.98	8,377.18	52.80	159.667		
9,200.00	6,027.00	5,176.43	5,047.80	65.53	26.18	-72.66	10,845.92	-4,698.51	8,338.25	8,285.38	52.87	157.713		
9,300.00	6,027.00	5,178.50	5,049.79	67.06	26.19	-72.69	10,845.96	-4,699.03	8,246.71	8,193.74	52.98	155.666		
9,400.00	6,027.00	5,180.56	5,051.79	68.61	26.20	-72.73	10,846.00	-4,699.55	8,155.38	8,102.25	53.12	153.524		
9,500.00	6,027.00	5,182.63	5,053.79	70.17	26.22	-72.76	10,846.05	-4,700.07	8,064.24	8,010.94	53.30	151.289		
9,600.00	6,027.00	5,184.69	5,055.79	71.73	26.23	-72.80	10,846.09	-4,700.59	7,973.32	7,919.80	53.53	148.960		
9,700.00	6,027.00	5,186.76	5,057.79	73.31	26.24	-72.83	10,846.13	-4,701.12	7,882.62	7,828.83	53.79	146.541		
9,800.00	6,027.00	5,188.83	5,059.79	74.90	26.25	-72.87	10,846.17	-4,701.64	7,792.14	7,738.05	54.10	144.033		
9,900.00	6,027.00	5,190.89	5,061.79	76.50	26.26	-72.90	10,846.22	-4,702.16	7,701.91	7,647.45	54.45	141.440		
10,000.00	6,027.00	5,192.96	5,063.79	78.10	26.28	-72.94	10,846.26	-4,702.68	7,611.91	7,557.06	54.85	138.768		
10,100.00	6,027.00	5,195.03	5,065.78	79.71	26.29	-72.97	10,846.30	-4,703.20	7,522.16	7,466.86	55.30	136.021		
10,200.00	6,027.00	5,197.09	5,067.78	81.33	26.30	-73.01	10,846.34	-4,703.73	7,432.68	7,376.88	55.80	133.206		
10,300.00	6,027.00	5,199.16	5,069.78	82.96	26.31	-73.05	10,846.39	-4,704.25	7,343.47	7,287.12	56.35	130.329		
10,400.00	6,027.00	5,201.22	5,071.78	84.59	26.32	-73.08	10,846.43	-4,704.77	7,254.54	7,197.59	56.94	127.398		
10,500.00	6,027.00	5,203.29	5,073.78	86.23	26.34	-73.12	10,846.47	-4,705.29	7,165.90	7,108.30	57.59	124.420		
10,600.00	6,027.00	5,205.36	5,075.78	87.87	26.35	-73.15	10,846.51	-4,705.81	7,077.56	7,019.26	58.30	121.403		
10,700.00	6,027.00	5,207.42	5,077.78	89.52	26.36	-73.19	10,846.56	-4,706.34	6,989.53	6,930.48	59.06	118.356		
10,800.00	6,027.00	5,209.49	5,079.78	91.17	26.37	-73.22	10,846.60	-4,706.86	6,901.84	6,841.97	59.87	115.286		
10,900.00	6,027.00	5,211.55	5,081.77	92.83	26.38	-73.26	10,846.64	-4,707.38	6,814.48	6,753.74	60.73	112.203		
11,000.00	6,027.00	5,213.62	5,083.77	94.49	26.39	-73.29	10,846.68	-4,707.90	6,727.47	6,665.81	61.66	109.113		
11,100.00	6,027.00	5,215.69	5,085.77	96.16	26.41	-73.33	10,846.73	-4,708.42	6,640.82	6,578.19	62.63	106.025		
11,200.00	6,027.00	5,217.75	5,087.77	97.83	26.42	-73.36	10,846.77	-4,708.94	6,554.56	6,490.89	63.67	102.946		
11,300.00	6,027.00	5,219.82	5,089.77	99.50	26.43	-73.40	10,846.81	-4,709.47	6,468.69	6,403.92	64.76	99.883		
11,400.00	6,027.00	5,221.89	5,091.77	101.18	26.44	-73.44	10,846.85	-4,709.99	6,383.23	6,317.32	65.91	96.842		
11,500.00	6,027.00	5,223.95	5,093.77	102.86	26.45	-73.47	10,846.90	-4,710.51	6,298.20	6,231.08	67.12	93.831		
11,600.00	6,027.00	5,226.02	5,095.77	104.54	26.47	-73.51	10,846.94	-4,711.03	6,213.61	6,145.22	68.39	90.854		
11,700.00	6,027.00	5,228.08	5,097.76	106.23	26.48	-73.54	10,846.98	-4,711.55	6,129.49	6,059.77	69.72	87.917		
11,800.00	6,027.00	5,230.15	5,099.76	107.92	26.49	-73.58	10,847.02	-4,712.08	6,045.85	5,974.74	71.11	85.025		
11,900.00	6,027.00	5,232.22	5,101.76	109.61	26.50	-73.61	10,847.07	-4,712.60	5,962.71	5,890.16	72.56	82.181		
12,000.00	6,027.00	5,234.28	5,103.76	111.31	26.51	-73.65	10,847.11	-4,713.12	5,880.10	5,806.03	74.07	79.390		
12,100.00	6,027.00	5,236.35	5,105.76	113.00	26.53	-73.68	10,847.15	-4,713.64	5,798.04	5,722.40	75.64	76.654		
12,200.00	6,027.00	5,238.42	5,107.76	114.71	26.54	-73.72	10,847.20	-4,714.16	5,716.54	5,639.27	77.27	73.977		
12,300.00	6,027.00	5,240.48	5,109.76	116.41	26.55	-73.75	10,847.24	-4,714.69	5,635.64	5,556.67	78.97	71.361		
12,400.00	6,027.00	5,242.55	5,111.76	118.11	26.56	-73.79	10,847.28	-4,715.21	5,555.36	5,474.63	80.74	68.808		
12,500.00	6,027.00	5,244.61	5,113.75	119.82	26.57	-73.83	10,847.32	-4,715.73	5,475.73	5,393.17	82.57	66.319		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL 2													Offset Site Error:	0.00 usft
Survey Program: 137-MWD OWSG, 1672-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,600.00	6,027.00	5,246.68	5,115.75	121.53	26.58	-73.86	10,847.37	-4,716.25	5,396.78	5,312.32	84.46	63.897		
12,700.00	6,027.00	5,248.75	5,117.75	123.24	26.60	-73.90	10,847.41	-4,716.77	5,318.54	5,232.11	86.42	61.541		
12,800.00	6,027.00	5,250.81	5,119.75	124.95	26.61	-73.93	10,847.45	-4,717.29	5,241.03	5,152.58	88.45	59.252		
12,900.00	6,027.00	5,252.88	5,121.75	126.66	26.62	-73.97	10,847.49	-4,717.82	5,164.30	5,073.75	90.55	57.032		
13,000.00	6,027.00	5,254.95	5,123.75	128.38	26.63	-74.00	10,847.54	-4,718.34	5,088.37	4,995.65	92.72	54.880		
13,100.00	6,027.00	5,257.01	5,125.75	130.10	26.64	-74.04	10,847.58	-4,718.86	5,013.29	4,918.33	94.95	52.797		
13,200.00	6,027.00	5,259.08	5,127.75	131.82	26.66	-74.07	10,847.62	-4,719.38	4,939.09	4,841.83	97.26	50.781		
13,300.00	6,027.00	5,261.14	5,129.74	133.54	26.67	-74.11	10,847.66	-4,719.90	4,865.81	4,766.17	99.64	48.833		
13,400.00	6,027.00	5,263.21	5,131.74	135.26	26.68	-74.14	10,847.71	-4,720.43	4,793.50	4,691.41	102.09	46.953		
13,500.00	6,027.00	5,265.28	5,133.74	136.98	26.69	-74.18	10,847.75	-4,720.95	4,722.20	4,617.59	104.61	45.139		
13,600.00	6,027.00	5,267.34	5,135.74	138.71	26.70	-74.22	10,847.79	-4,721.47	4,651.95	4,544.75	107.21	43.392		
13,700.00	6,027.00	5,269.41	5,137.74	140.43	26.72	-74.25	10,847.83	-4,721.99	4,582.81	4,472.94	109.87	41.710		
13,800.00	6,027.00	5,271.47	5,139.74	142.16	26.73	-74.29	10,847.88	-4,722.51	4,514.83	4,402.21	112.61	40.092		
13,900.00	6,027.00	5,273.54	5,141.74	143.89	26.74	-74.32	10,847.92	-4,723.04	4,448.05	4,332.63	115.42	38.537		
14,000.00	6,027.00	5,275.61	5,143.74	145.62	26.75	-74.36	10,847.96	-4,723.56	4,382.53	4,264.23	118.30	37.045		
14,100.00	6,027.00	5,277.67	5,145.73	147.35	26.76	-74.39	10,848.00	-4,724.08	4,318.34	4,197.09	121.25	35.615		
14,200.00	6,027.00	5,279.74	5,147.73	149.08	26.77	-74.43	10,848.05	-4,724.60	4,255.53	4,131.26	124.27	34.244		
14,300.00	6,027.00	5,281.81	5,149.73	150.81	26.79	-74.46	10,848.09	-4,725.12	4,194.16	4,066.80	127.35	32.933		
14,400.00	6,027.00	5,283.87	5,151.73	152.54	26.80	-74.50	10,848.13	-4,725.64	4,134.30	4,003.79	130.50	31.680		
14,500.00	6,027.00	5,285.94	5,153.73	154.28	26.81	-74.54	10,848.17	-4,726.17	4,076.01	3,942.29	133.71	30.483		
14,600.00	6,027.00	5,288.00	5,155.73	156.01	26.82	-74.57	10,848.22	-4,726.69	4,019.36	3,882.38	136.98	29.342		
14,700.00	6,027.00	5,290.07	5,157.73	157.75	26.83	-74.61	10,848.26	-4,727.21	3,964.42	3,824.12	140.31	28.256		
14,800.00	6,027.00	5,292.14	5,159.73	159.49	26.85	-74.64	10,848.30	-4,727.73	3,911.27	3,767.59	143.68	27.222		
14,900.00	6,027.00	5,294.20	5,161.72	161.22	26.86	-74.68	10,848.34	-4,728.25	3,859.98	3,712.88	147.10	26.241		
15,000.00	6,027.00	5,296.27	5,163.72	162.96	26.87	-74.71	10,848.39	-4,728.78	3,810.62	3,660.07	150.55	25.310		
15,100.00	6,027.00	5,298.34	5,165.72	164.70	26.88	-74.75	10,848.43	-4,729.30	3,763.27	3,609.22	154.05	24.430		
15,200.00	6,027.00	5,300.40	5,167.72	166.44	26.89	-74.78	10,848.47	-4,729.82	3,718.01	3,560.44	157.56	23.597		
15,300.00	6,027.00	5,302.47	5,169.72	168.18	26.91	-74.82	10,848.52	-4,730.34	3,674.91	3,513.81	161.10	22.812		
15,400.00	6,027.00	5,304.53	5,171.72	169.93	26.92	-74.85	10,848.56	-4,730.86	3,634.05	3,469.40	164.64	22.072		
15,500.00	6,027.00	5,306.60	5,173.72	171.67	26.93	-74.89	10,848.60	-4,731.39	3,595.50	3,427.31	168.19	21.378		
15,600.00	6,027.00	5,308.67	5,175.72	173.41	26.94	-74.93	10,848.64	-4,731.91	3,559.35	3,387.62	171.73	20.727		
15,700.00	6,027.00	5,310.73	5,177.71	175.15	26.95	-74.96	10,848.69	-4,732.43	3,525.66	3,350.42	175.25	20.118		
15,800.00	6,027.00	5,312.80	5,179.71	176.90	26.96	-75.00	10,848.73	-4,732.95	3,494.51	3,315.78	178.73	19.552		
15,900.00	6,027.00	5,314.86	5,181.71	178.64	26.98	-75.03	10,848.77	-4,733.47	3,465.96	3,283.78	182.18	19.025		
16,000.00	6,027.00	5,316.93	5,183.71	180.39	26.99	-75.07	10,848.81	-4,734.00	3,440.09	3,254.52	185.57	18.538		
16,100.00	6,027.00	5,319.00	5,185.71	182.13	27.00	-75.10	10,848.86	-4,734.52	3,416.94	3,228.04	188.90	18.088		
16,200.00	6,027.00	5,321.06	5,187.71	183.88	27.01	-75.14	10,848.90	-4,735.04	3,396.58	3,204.43	192.15	17.676		
16,300.00	6,027.00	5,323.13	5,189.71	185.63	27.02	-75.17	10,848.94	-4,735.56	3,379.06	3,183.74	195.32	17.300		
16,400.00	6,027.00	5,325.20	5,191.71	187.38	27.04	-75.21	10,848.98	-4,736.08	3,364.42	3,166.04	198.38	16.959		
16,500.00	6,027.00	5,327.26	5,193.70	189.12	27.05	-75.24	10,849.03	-4,736.60	3,352.70	3,151.36	201.34	16.652		
16,600.00	6,027.00	5,329.33	5,195.70	190.87	27.06	-75.28	10,849.07	-4,737.13	3,343.92	3,139.76	204.17	16.378		
16,700.00	6,027.00	5,331.39	5,197.70	192.62	27.07	-75.32	10,849.11	-4,737.65	3,338.12	3,131.25	206.87	16.136		
16,795.97	6,027.00	5,333.38	5,199.62	194.30	27.08	-75.35	10,849.15	-4,738.15	3,335.37	3,126.04	209.33	15.934	CC, ES, SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-03 - OWB - SURFACE													Offset Site Error:	0.00 usft
Survey Program: 137-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,100.00	6,027.00	1,725.00	1,707.42	49.84	6.76	-28.18	10,770.53	-3,834.16	9,963.73	9,927.75	35.97	276.994		
8,200.00	6,027.00	1,725.00	1,707.42	51.15	6.76	-28.18	10,770.53	-3,834.16	9,876.88	9,840.96	35.92	274.957		
8,300.00	6,027.00	1,725.00	1,707.42	52.48	6.76	-28.18	10,770.53	-3,834.16	9,790.29	9,754.40	35.89	272.802		
8,400.00	6,027.00	1,725.00	1,707.42	53.85	6.76	-28.18	10,770.53	-3,834.16	9,703.96	9,668.09	35.87	270.525		
8,500.00	6,027.00	1,725.00	1,707.42	55.24	6.76	-28.18	10,770.53	-3,834.16	9,617.89	9,582.02	35.87	268.123		
8,600.00	6,027.00	1,725.00	1,707.42	56.65	6.76	-28.18	10,770.53	-3,834.16	9,532.09	9,496.20	35.89	265.592		
8,700.00	6,027.00	1,725.00	1,707.42	58.08	6.76	-28.18	10,770.53	-3,834.16	9,446.57	9,410.65	35.93	262.931		
8,800.00	6,027.00	1,725.00	1,707.42	59.54	6.76	-28.18	10,770.53	-3,834.16	9,361.34	9,325.36	35.99	260.136		
8,900.00	6,027.00	1,725.00	1,707.42	61.01	6.76	-28.18	10,770.53	-3,834.16	9,276.41	9,240.34	36.07	257.208		
9,000.00	6,027.00	1,725.00	1,707.42	62.50	6.76	-28.18	10,770.53	-3,834.16	9,191.78	9,155.61	36.17	254.145		
9,100.00	6,027.00	1,725.00	1,707.42	64.01	6.76	-28.18	10,770.53	-3,834.16	9,107.45	9,071.16	36.29	250.950		
9,200.00	6,027.00	1,725.00	1,707.42	65.53	6.76	-28.18	10,770.53	-3,834.16	9,023.45	8,987.01	36.44	247.622		
9,300.00	6,027.00	1,725.00	1,707.42	67.06	6.76	-28.18	10,770.53	-3,834.16	8,939.78	8,903.17	36.61	244.166		
9,400.00	6,027.00	1,725.00	1,707.42	68.61	6.76	-28.18	10,770.53	-3,834.16	8,856.45	8,819.64	36.81	240.583		
9,500.00	6,027.00	1,725.00	1,707.42	70.17	6.76	-28.18	10,770.53	-3,834.16	8,773.46	8,736.43	37.04	236.880		
9,600.00	6,027.00	1,725.00	1,707.42	71.73	6.76	-28.18	10,770.53	-3,834.16	8,690.84	8,653.55	37.29	233.060		
9,700.00	6,027.00	1,725.00	1,707.42	73.31	6.76	-28.18	10,770.53	-3,834.16	8,608.58	8,571.01	37.57	229.131		
9,800.00	6,027.00	1,725.00	1,707.42	74.90	6.76	-28.18	10,770.53	-3,834.16	8,526.70	8,488.82	37.88	225.100		
9,900.00	6,027.00	1,725.00	1,707.42	76.50	6.76	-28.18	10,770.53	-3,834.16	8,445.21	8,407.00	38.22	220.973		
10,000.00	6,027.00	1,725.00	1,707.42	78.10	6.76	-28.18	10,770.53	-3,834.16	8,364.13	8,325.54	38.59	216.761		
10,100.00	6,027.00	1,725.00	1,707.42	79.71	6.76	-28.18	10,770.53	-3,834.16	8,283.45	8,244.47	38.99	212.472		
10,200.00	6,027.00	1,725.00	1,707.42	81.33	6.76	-28.18	10,770.53	-3,834.16	8,203.21	8,163.79	39.42	208.116		
10,300.00	6,027.00	1,725.00	1,707.42	82.96	6.76	-28.18	10,770.53	-3,834.16	8,123.40	8,083.52	39.88	203.703		
10,400.00	6,027.00	1,725.00	1,707.42	84.59	6.76	-28.18	10,770.53	-3,834.16	8,044.04	8,003.67	40.37	199.243		
10,500.00	6,027.00	1,725.00	1,707.42	86.23	6.76	-28.18	10,770.53	-3,834.16	7,965.15	7,924.25	40.90	194.747		
10,600.00	6,027.00	1,725.00	1,707.42	87.87	6.76	-28.18	10,770.53	-3,834.16	7,886.73	7,845.27	41.46	190.226		
10,700.00	6,027.00	1,725.00	1,707.42	89.52	6.76	-28.18	10,770.53	-3,834.16	7,808.81	7,766.76	42.05	185.690		
10,800.00	6,027.00	1,725.00	1,707.42	91.17	6.76	-28.18	10,770.53	-3,834.16	7,731.40	7,688.72	42.68	181.149		
10,900.00	6,027.00	1,725.00	1,707.42	92.83	6.76	-28.18	10,770.53	-3,834.16	7,654.51	7,611.17	43.34	176.614		
11,000.00	6,027.00	1,725.00	1,707.42	94.49	6.76	-28.18	10,770.53	-3,834.16	7,578.16	7,534.13	44.04	172.094		
11,100.00	6,027.00	1,725.00	1,707.42	96.16	6.76	-28.18	10,770.53	-3,834.16	7,502.37	7,457.60	44.76	167.599		
11,200.00	6,027.00	1,725.00	1,707.42	97.83	6.76	-28.18	10,770.53	-3,834.16	7,427.15	7,381.62	45.53	163.136		
11,300.00	6,027.00	1,725.00	1,707.42	99.50	6.76	-28.18	10,770.53	-3,834.16	7,352.52	7,306.19	46.33	158.716		
11,400.00	6,027.00	1,725.00	1,707.42	101.18	6.76	-28.18	10,770.53	-3,834.16	7,278.49	7,231.34	47.16	154.345		
11,500.00	6,027.00	1,725.00	1,707.42	102.86	6.76	-28.18	10,770.53	-3,834.16	7,205.10	7,157.08	48.02	150.030		
11,600.00	6,027.00	1,725.00	1,707.42	104.54	6.76	-28.18	10,770.53	-3,834.16	7,132.35	7,083.43	48.93	145.778		
11,700.00	6,027.00	1,725.00	1,707.42	106.23	6.76	-28.18	10,770.53	-3,834.16	7,060.27	7,010.41	49.86	141.595		
11,800.00	6,027.00	1,725.00	1,707.42	107.92	6.76	-28.18	10,770.53	-3,834.16	6,988.88	6,938.05	50.83	137.486		
11,900.00	6,027.00	1,725.00	1,707.42	109.61	6.76	-28.18	10,770.53	-3,834.16	6,918.20	6,866.36	51.84	133.456		
12,000.00	6,027.00	1,725.00	1,707.42	111.31	6.76	-28.18	10,770.53	-3,834.16	6,848.24	6,795.36	52.88	129.509		
12,100.00	6,027.00	1,725.00	1,707.42	113.00	6.76	-28.18	10,770.53	-3,834.16	6,779.04	6,725.09	53.95	125.648		
12,200.00	6,027.00	1,725.00	1,707.42	114.71	6.76	-28.18	10,770.53	-3,834.16	6,710.62	6,655.56	55.06	121.876		
12,300.00	6,027.00	1,725.00	1,707.42	116.41	6.76	-28.18	10,770.53	-3,834.16	6,643.00	6,586.79	56.20	118.196		
12,400.00	6,027.00	1,725.00	1,707.42	118.11	6.76	-28.18	10,770.53	-3,834.16	6,576.20	6,518.82	57.38	114.609		
12,500.00	6,027.00	1,725.00	1,707.42	119.82	6.76	-28.18	10,770.53	-3,834.16	6,510.25	6,451.66	58.59	111.117		
12,600.00	6,027.00	1,725.00	1,707.42	121.53	6.76	-28.18	10,770.53	-3,834.16	6,445.18	6,385.35	59.83	107.722		
12,700.00	6,027.00	1,725.00	1,707.42	123.24	6.76	-28.18	10,770.53	-3,834.16	6,381.02	6,319.91	61.11	104.423		
12,800.00	6,027.00	1,725.00	1,707.42	124.95	6.76	-28.18	10,770.53	-3,834.16	6,317.78	6,255.37	62.42	101.222		
12,900.00	6,027.00	1,725.00	1,707.42	126.66	6.76	-28.18	10,770.53	-3,834.16	6,255.50	6,191.75	63.76	98.118		
13,000.00	6,027.00	1,725.00	1,707.42	128.38	6.76	-28.18	10,770.53	-3,834.16	6,194.22	6,129.09	65.13	95.111		
13,100.00	6,027.00	1,725.00	1,707.42	130.10	6.76	-28.18	10,770.53	-3,834.16	6,133.95	6,067.42	66.53	92.200		
13,200.00	6,027.00	1,725.00	1,707.42	131.82	6.76	-28.18	10,770.53	-3,834.16	6,074.73	6,006.77	67.96	89.385		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-03 - OWB - SURFACE													Offset Site Error:	0.00 usft
Survey Program: 137-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,300.00	6,027.00	1,725.00	1,707.42	133.54	6.76	-28.18	10,770.53	-3,834.16	6,016.59	5,947.16	69.42	86.665		
13,400.00	6,027.00	1,725.00	1,707.42	135.26	6.76	-28.18	10,770.53	-3,834.16	5,959.55	5,888.64	70.91	84.038		
13,500.00	6,027.00	1,725.00	1,707.42	136.98	6.76	-28.18	10,770.53	-3,834.16	5,903.67	5,831.23	72.43	81.504		
13,600.00	6,027.00	1,725.00	1,707.42	138.71	6.76	-28.18	10,770.53	-3,834.16	5,848.95	5,774.97	73.98	79.061		
13,700.00	6,027.00	1,725.00	1,707.42	140.43	6.76	-28.18	10,770.53	-3,834.16	5,795.45	5,719.90	75.55	76.708		
13,800.00	6,027.00	1,725.00	1,707.42	142.16	6.76	-28.18	10,770.53	-3,834.16	5,743.19	5,666.04	77.15	74.442		
13,900.00	6,027.00	1,725.00	1,707.42	143.89	6.76	-28.18	10,770.53	-3,834.16	5,692.21	5,613.44	78.77	72.263		
14,000.00	6,027.00	1,725.00	1,707.42	145.62	6.76	-28.18	10,770.53	-3,834.16	5,642.54	5,562.12	80.41	70.168		
14,100.00	6,027.00	1,725.00	1,707.42	147.35	6.76	-28.18	10,770.53	-3,834.16	5,594.21	5,512.13	82.08	68.156		
14,200.00	6,027.00	1,725.00	1,707.42	149.08	6.76	-28.18	10,770.53	-3,834.16	5,547.27	5,463.51	83.76	66.225		
14,300.00	6,027.00	1,725.00	1,707.42	150.81	6.76	-28.18	10,770.53	-3,834.16	5,501.74	5,416.28	85.47	64.373		
14,400.00	6,027.00	1,725.00	1,707.42	152.54	6.76	-28.18	10,770.53	-3,834.16	5,457.67	5,370.49	87.18	62.599		
14,500.00	6,027.00	1,725.00	1,707.42	154.28	6.76	-28.18	10,770.53	-3,834.16	5,415.09	5,326.17	88.92	60.900		
14,600.00	6,027.00	1,725.00	1,707.42	156.01	6.76	-28.18	10,770.53	-3,834.16	5,374.03	5,283.36	90.66	59.274		
14,700.00	6,027.00	1,725.00	1,707.42	157.75	6.76	-28.18	10,770.53	-3,834.16	5,334.52	5,242.10	92.42	57.720		
14,800.00	6,027.00	1,725.00	1,707.42	159.49	6.76	-28.18	10,770.53	-3,834.16	5,296.62	5,202.43	94.19	56.236		
14,900.00	6,027.00	1,725.00	1,707.42	161.22	6.76	-28.18	10,770.53	-3,834.16	5,260.34	5,164.38	95.96	54.820		
15,000.00	6,027.00	1,725.00	1,707.42	162.96	6.76	-28.18	10,770.53	-3,834.16	5,225.72	5,127.99	97.73	53.470		
15,100.00	6,027.00	1,725.00	1,707.42	164.70	6.76	-28.18	10,770.53	-3,834.16	5,192.79	5,093.29	99.51	52.184		
15,200.00	6,027.00	1,725.00	1,707.42	166.44	6.76	-28.18	10,770.53	-3,834.16	5,161.60	5,060.31	101.28	50.961		
15,300.00	6,027.00	1,725.00	1,707.42	168.18	6.76	-28.18	10,770.53	-3,834.16	5,132.16	5,029.11	103.06	49.800		
15,400.00	6,027.00	1,725.00	1,707.42	169.93	6.76	-28.18	10,770.53	-3,834.16	5,104.52	4,999.69	104.82	48.697		
15,500.00	6,027.00	1,725.00	1,707.42	171.67	6.76	-28.18	10,770.53	-3,834.16	5,078.69	4,972.11	106.58	47.652		
15,600.00	6,027.00	1,725.00	1,707.42	173.41	6.76	-28.18	10,770.53	-3,834.16	5,054.71	4,946.38	108.32	46.662		
15,700.00	6,027.00	1,725.00	1,707.42	175.15	6.76	-28.18	10,770.53	-3,834.16	5,032.60	4,922.54	110.06	45.728		
15,800.00	6,027.00	1,725.00	1,707.42	176.90	6.76	-28.18	10,770.53	-3,834.16	5,012.39	4,900.62	111.77	44.846		
15,900.00	6,027.00	1,725.00	1,707.42	178.64	6.76	-28.18	10,770.53	-3,834.16	4,994.10	4,880.64	113.46	44.015		
16,000.00	6,027.00	1,725.00	1,707.42	180.39	6.76	-28.18	10,770.53	-3,834.16	4,977.75	4,862.62	115.14	43.234		
16,100.00	6,027.00	1,725.00	1,707.42	182.13	6.76	-28.18	10,770.53	-3,834.16	4,963.37	4,846.58	116.78	42.501		
16,200.00	6,027.00	1,725.00	1,707.42	183.88	6.76	-28.18	10,770.53	-3,834.16	4,950.96	4,832.56	118.40	41.815		
16,300.00	6,027.00	1,725.00	1,707.42	185.63	6.76	-28.18	10,770.53	-3,834.16	4,940.55	4,820.56	119.99	41.175		
16,400.00	6,027.00	1,725.00	1,707.42	187.38	6.76	-28.18	10,770.53	-3,834.16	4,932.14	4,810.60	121.54	40.580		
16,500.00	6,027.00	1,725.00	1,707.42	189.12	6.76	-28.18	10,770.53	-3,834.16	4,925.75	4,802.68	123.06	40.027		
16,600.00	6,027.00	1,725.00	1,707.42	190.87	6.76	-28.18	10,770.53	-3,834.16	4,921.38	4,796.84	124.54	39.516		
16,700.00	6,027.00	1,725.00	1,707.42	192.62	6.76	-28.18	10,770.53	-3,834.16	4,919.04	4,793.06	125.98	39.045		
16,765.05	6,027.00	1,725.00	1,707.42	193.76	6.76	-28.18	10,770.53	-3,834.16	4,918.61	4,791.71	126.90	38.760 CC		
16,795.97	6,027.00	1,725.00	1,707.42	194.30	6.76	-28.18	10,770.53	-3,834.16	4,918.71	4,791.38	127.33	38.630 ES, SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,100.00	6,027.00	5,540.11	5,535.58	39.21	20.00	-77.51	10,840.67	-3,802.66	10,014.02	9,962.04	51.98	192.664		
7,200.00	6,027.00	5,540.36	5,535.82	40.02	20.01	-77.52	10,840.68	-3,802.67	9,916.83	9,865.09	51.74	191.651		
7,300.00	6,027.00	5,540.61	5,536.08	40.89	20.01	-77.52	10,840.70	-3,802.68	9,819.70	9,768.19	51.51	190.625		
7,400.00	6,027.00	5,540.87	5,536.33	41.83	20.01	-77.53	10,840.71	-3,802.69	9,722.63	9,671.34	51.28	189.586		
7,500.00	6,027.00	5,550.00	5,545.45	42.83	20.04	-77.75	10,841.19	-3,803.00	9,625.68	9,574.60	51.09	188.421		
7,600.00	6,027.00	5,550.00	5,545.45	43.88	20.04	-77.75	10,841.19	-3,803.00	9,528.73	9,477.87	50.86	187.354		
7,700.00	6,027.00	5,550.00	5,545.45	44.99	20.04	-77.75	10,841.19	-3,803.00	9,431.83	9,381.20	50.64	186.269		
7,800.00	6,027.00	5,550.00	5,545.45	46.14	20.04	-77.75	10,841.19	-3,803.00	9,335.01	9,284.59	50.41	185.164		
7,900.00	6,027.00	5,550.00	5,545.45	47.33	20.04	-77.75	10,841.19	-3,803.00	9,238.25	9,188.05	50.20	184.037		
8,000.00	6,027.00	5,550.00	5,545.45	48.57	20.04	-77.75	10,841.19	-3,803.00	9,141.56	9,091.57	49.98	182.887		
8,100.00	6,027.00	5,550.00	5,545.45	49.84	20.04	-77.75	10,841.19	-3,803.00	9,044.94	8,995.16	49.78	181.711		
8,200.00	6,027.00	5,550.00	5,545.45	51.15	20.04	-77.75	10,841.19	-3,803.00	8,948.39	8,898.82	49.57	180.507		
8,300.00	6,027.00	5,550.00	5,545.45	52.48	20.04	-77.75	10,841.19	-3,803.00	8,851.93	8,802.55	49.38	179.273		
8,400.00	6,027.00	5,550.00	5,545.45	53.85	20.04	-77.75	10,841.19	-3,803.00	8,755.54	8,706.35	49.19	178.006		
8,500.00	6,027.00	5,550.00	5,545.45	55.24	20.04	-77.75	10,841.19	-3,803.00	8,659.23	8,610.23	49.00	176.703		
8,600.00	6,027.00	5,550.00	5,545.45	56.65	20.04	-77.75	10,841.19	-3,803.00	8,563.01	8,514.18	48.83	175.361		
8,700.00	6,027.00	5,550.00	5,545.45	58.08	20.04	-77.75	10,841.19	-3,803.00	8,466.88	8,418.21	48.67	173.978		
8,800.00	6,027.00	5,550.00	5,545.45	59.54	20.04	-77.75	10,841.19	-3,803.00	8,370.84	8,322.32	48.51	172.551		
8,900.00	6,027.00	5,550.00	5,545.45	61.01	20.04	-77.75	10,841.19	-3,803.00	8,274.89	8,226.52	48.37	171.076		
9,000.00	6,027.00	5,550.00	5,545.45	62.50	20.04	-77.75	10,841.19	-3,803.00	8,179.04	8,130.80	48.24	169.549		
9,100.00	6,027.00	5,550.00	5,545.45	64.01	20.04	-77.75	10,841.19	-3,803.00	8,083.28	8,035.16	48.12	167.967		
9,200.00	6,027.00	5,550.00	5,545.45	65.53	20.04	-77.75	10,841.19	-3,803.00	7,987.64	7,939.61	48.02	166.328		
9,300.00	6,027.00	5,550.00	5,545.45	67.06	20.04	-77.75	10,841.19	-3,803.00	7,892.10	7,844.16	47.94	164.626		
9,400.00	6,027.00	5,550.00	5,545.45	68.61	20.04	-77.75	10,841.19	-3,803.00	7,796.67	7,748.80	47.87	162.860		
9,500.00	6,027.00	5,550.00	5,545.45	70.17	20.04	-77.75	10,841.19	-3,803.00	7,701.36	7,653.53	47.83	161.025		
9,600.00	6,027.00	5,550.00	5,545.45	71.73	20.04	-77.75	10,841.19	-3,803.00	7,606.17	7,558.36	47.80	159.118		
9,700.00	6,027.00	5,550.00	5,545.45	73.31	20.04	-77.75	10,841.19	-3,803.00	7,511.10	7,463.30	47.80	157.136		
9,800.00	6,027.00	5,550.00	5,545.45	74.90	20.04	-77.75	10,841.19	-3,803.00	7,416.16	7,368.34	47.82	155.076		
9,900.00	6,027.00	5,550.00	5,545.45	76.50	20.04	-77.75	10,841.19	-3,803.00	7,321.36	7,273.49	47.87	152.936		
10,000.00	6,027.00	5,550.00	5,545.45	78.10	20.04	-77.75	10,841.19	-3,803.00	7,226.70	7,178.75	47.95	150.713		
10,100.00	6,027.00	5,550.00	5,545.45	79.71	20.04	-77.75	10,841.19	-3,803.00	7,132.19	7,084.13	48.06	148.407		
10,200.00	6,027.00	5,550.00	5,545.45	81.33	20.04	-77.75	10,841.19	-3,803.00	7,037.82	6,989.62	48.20	146.016		
10,300.00	6,027.00	5,550.00	5,545.45	82.96	20.04	-77.75	10,841.19	-3,803.00	6,943.61	6,895.24	48.37	143.540		
10,400.00	6,027.00	5,550.00	5,545.45	84.59	20.04	-77.75	10,841.19	-3,803.00	6,849.57	6,800.99	48.59	140.979		
10,500.00	6,027.00	5,550.00	5,545.45	86.23	20.04	-77.75	10,841.19	-3,803.00	6,755.70	6,706.86	48.84	138.334		
10,600.00	6,027.00	5,550.00	5,545.45	87.87	20.04	-77.75	10,841.19	-3,803.00	6,662.01	6,612.88	49.13	135.607		
10,700.00	6,027.00	5,550.00	5,545.45	89.52	20.04	-77.75	10,841.19	-3,803.00	6,568.50	6,519.04	49.46	132.801		
10,800.00	6,027.00	5,550.00	5,545.45	91.17	20.04	-77.75	10,841.19	-3,803.00	6,475.19	6,425.35	49.84	129.920		
10,900.00	6,027.00	5,550.00	5,545.45	92.83	20.04	-77.75	10,841.19	-3,803.00	6,382.08	6,331.81	50.27	126.967		
11,000.00	6,027.00	5,550.00	5,545.45	94.49	20.04	-77.75	10,841.19	-3,803.00	6,289.18	6,238.44	50.74	123.949		
11,100.00	6,027.00	5,550.00	5,545.45	96.16	20.04	-77.75	10,841.19	-3,803.00	6,196.50	6,145.24	51.27	120.871		
11,200.00	6,027.00	5,550.00	5,545.45	97.83	20.04	-77.75	10,841.19	-3,803.00	6,104.06	6,052.21	51.84	117.739		
11,300.00	6,027.00	5,550.00	5,545.45	99.50	20.04	-77.75	10,841.19	-3,803.00	6,011.85	5,959.37	52.48	114.562		
11,400.00	6,027.00	5,550.00	5,545.45	101.18	20.04	-77.75	10,841.19	-3,803.00	5,919.90	5,866.73	53.17	111.346		
11,500.00	6,027.00	5,550.00	5,545.45	102.86	20.04	-77.75	10,841.19	-3,803.00	5,828.21	5,774.30	53.92	108.100		
11,600.00	6,027.00	5,550.00	5,545.45	104.54	20.04	-77.75	10,841.19	-3,803.00	5,736.81	5,682.08	54.72	104.832		
11,700.00	6,027.00	5,550.00	5,545.45	106.23	20.04	-77.75	10,841.19	-3,803.00	5,645.69	5,590.09	55.59	101.550		
11,800.00	6,027.00	5,550.00	5,545.45	107.92	20.04	-77.75	10,841.19	-3,803.00	5,554.88	5,498.35	56.53	98.264		
11,900.00	6,027.00	5,550.00	5,545.45	109.61	20.04	-77.75	10,841.19	-3,803.00	5,464.39	5,406.85	57.53	94.981		
12,000.00	6,027.00	5,550.00	5,545.45	111.31	20.04	-77.75	10,841.19	-3,803.00	5,374.23	5,315.63	58.60	91.710		
12,100.00	6,027.00	5,550.00	5,545.45	113.00	20.04	-77.75	10,841.19	-3,803.00	5,284.43	5,224.69	59.74	88.459		
12,200.00	6,027.00	5,550.00	5,545.45	114.71	20.04	-77.75	10,841.19	-3,803.00	5,195.01	5,134.06	60.95	85.235		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,300.00	6,027.00	5,550.00	5,545.45	116.41	20.04	-77.75	10,841.19	-3,803.00	5,105.97	5,043.74	62.23	82.046		
12,400.00	6,027.00	5,550.00	5,545.45	118.11	20.04	-77.75	10,841.19	-3,803.00	5,017.35	4,953.76	63.59	78.898		
12,500.00	6,027.00	5,550.00	5,545.45	119.82	20.04	-77.75	10,841.19	-3,803.00	4,929.16	4,864.13	65.03	75.798		
12,600.00	6,027.00	5,550.00	5,545.45	121.53	20.04	-77.75	10,841.19	-3,803.00	4,841.44	4,774.89	66.55	72.751		
12,700.00	6,027.00	5,550.00	5,545.45	123.24	20.04	-77.75	10,841.19	-3,803.00	4,754.20	4,686.05	68.15	69.763		
12,800.00	6,027.00	5,550.00	5,545.45	124.95	20.04	-77.75	10,841.19	-3,803.00	4,667.47	4,597.63	69.83	66.838		
12,900.00	6,027.00	5,572.57	5,567.93	126.66	20.13	-78.29	10,843.02	-3,803.75	4,580.84	4,509.20	71.64	63.942		
13,000.00	6,027.00	5,573.87	5,569.22	128.38	20.13	-78.32	10,843.16	-3,803.79	4,495.17	4,421.67	73.50	61.155		
13,100.00	6,027.00	5,575.24	5,570.58	130.10	20.14	-78.35	10,843.30	-3,803.84	4,410.10	4,334.64	75.46	58.442		
13,200.00	6,027.00	5,576.67	5,572.00	131.82	20.14	-78.39	10,843.45	-3,803.88	4,325.67	4,248.16	77.51	55.806		
13,300.00	6,027.00	5,578.16	5,573.49	133.54	20.15	-78.43	10,843.61	-3,803.93	4,241.91	4,162.25	79.66	53.248		
13,400.00	6,027.00	5,600.00	5,595.13	135.26	20.23	-78.95	10,846.44	-3,804.66	4,159.21	4,077.28	81.94	50.762		
13,500.00	6,027.00	5,600.00	5,595.13	136.98	20.23	-78.95	10,846.44	-3,804.66	4,076.87	3,992.58	84.29	48.367		
13,600.00	6,027.00	5,600.00	5,595.13	138.71	20.23	-78.95	10,846.44	-3,804.66	3,995.33	3,908.58	86.75	46.054		
13,700.00	6,027.00	5,600.00	5,595.13	140.43	20.23	-78.95	10,846.44	-3,804.66	3,914.65	3,825.32	89.33	43.824		
13,800.00	6,027.00	5,600.00	5,595.13	142.16	20.23	-78.95	10,846.44	-3,804.66	3,834.88	3,742.86	92.01	41.677		
13,900.00	6,027.00	5,600.00	5,595.13	143.89	20.23	-78.95	10,846.44	-3,804.66	3,756.08	3,661.26	94.82	39.614		
14,000.00	6,027.00	5,600.00	5,595.13	145.62	20.23	-78.95	10,846.44	-3,804.66	3,678.30	3,580.56	97.74	37.633		
14,100.00	6,027.00	5,600.00	5,595.13	147.35	20.23	-78.95	10,846.44	-3,804.66	3,601.63	3,500.84	100.79	35.734		
14,200.00	6,027.00	5,600.00	5,595.13	149.08	20.23	-78.95	10,846.44	-3,804.66	3,526.12	3,422.16	103.96	33.918		
14,300.00	6,027.00	5,600.00	5,595.13	150.81	20.23	-78.95	10,846.44	-3,804.66	3,451.86	3,344.60	107.26	32.182		
14,400.00	6,027.00	5,600.00	5,595.13	152.54	20.23	-78.95	10,846.44	-3,804.66	3,378.93	3,268.24	110.69	30.527		
14,500.00	6,027.00	5,600.00	5,595.13	154.28	20.23	-78.95	10,846.44	-3,804.66	3,307.41	3,193.16	114.25	28.950		
14,600.00	6,027.00	5,600.00	5,595.13	156.01	20.23	-78.95	10,846.44	-3,804.66	3,237.40	3,119.47	117.93	27.451		
14,700.00	6,027.00	5,600.00	5,595.13	157.75	20.23	-78.95	10,846.44	-3,804.66	3,169.00	3,047.25	121.75	26.029		
14,800.00	6,027.00	5,600.00	5,595.13	159.49	20.23	-78.95	10,846.44	-3,804.66	3,102.32	2,976.63	125.69	24.682		
14,900.00	6,027.00	5,600.00	5,595.13	161.22	20.23	-78.95	10,846.44	-3,804.66	3,037.47	2,907.70	129.76	23.408		
15,000.00	6,027.00	5,622.23	5,617.03	162.96	20.31	-79.48	10,850.15	-3,805.38	2,974.21	2,840.23	133.98	22.200		
15,100.00	6,027.00	5,626.78	5,621.50	164.70	20.33	-79.59	10,851.02	-3,805.53	2,913.23	2,774.94	138.29	21.067		
15,200.00	6,027.00	5,650.00	5,644.16	166.44	20.42	-80.14	10,855.99	-3,806.28	2,854.64	2,711.95	142.70	20.005		
15,300.00	6,027.00	5,650.00	5,644.16	168.18	20.42	-80.14	10,855.99	-3,806.28	2,798.01	2,650.80	147.21	19.007		
15,400.00	6,027.00	5,650.00	5,644.16	169.93	20.42	-80.14	10,855.99	-3,806.28	2,743.86	2,592.05	151.81	18.074		
15,500.00	6,027.00	5,650.00	5,644.16	171.67	20.42	-80.14	10,855.99	-3,806.28	2,692.34	2,535.86	156.48	17.206		
15,600.00	6,027.00	5,650.00	5,644.16	173.41	20.42	-80.14	10,855.99	-3,806.28	2,643.59	2,482.40	161.19	16.400		
15,700.00	6,027.00	5,650.00	5,644.16	175.15	20.42	-80.14	10,855.99	-3,806.28	2,597.78	2,431.85	165.93	15.656		
15,800.00	6,027.00	5,673.68	5,667.06	176.90	20.51	-80.70	10,862.00	-3,807.03	2,554.75	2,384.06	170.69	14.967		
15,900.00	6,027.00	5,683.70	5,676.66	178.64	20.55	-80.93	10,864.82	-3,807.34	2,514.99	2,339.56	175.43	14.336		
16,000.00	6,027.00	5,700.00	5,692.18	180.39	20.61	-81.31	10,869.78	-3,807.85	2,478.52	2,298.40	180.11	13.761		
16,100.00	6,027.00	5,700.00	5,692.18	182.13	20.61	-81.31	10,869.78	-3,807.85	2,445.44	2,260.71	184.73	13.238		
16,200.00	6,027.00	5,722.66	5,713.51	183.88	20.70	-81.84	10,877.40	-3,808.54	2,415.82	2,226.59	189.23	12.766		
16,300.00	6,027.00	5,750.00	5,738.81	185.63	20.81	-82.46	10,887.71	-3,809.36	2,389.85	2,196.27	193.59	12.345		
16,400.00	6,027.00	5,750.00	5,738.81	187.38	20.81	-82.46	10,887.71	-3,809.36	2,367.48	2,169.68	197.80	11.969		
16,500.00	6,027.00	5,783.31	5,768.94	189.12	20.94	-83.20	10,901.88	-3,810.33	2,348.74	2,146.94	201.79	11.639		
16,600.00	6,027.00	5,811.47	5,793.73	190.87	21.06	-83.81	10,915.21	-3,811.12	2,333.67	2,128.10	205.57	11.352		
16,700.00	6,027.00	5,850.00	5,826.52	192.62	21.22	-84.62	10,935.39	-3,812.16	2,322.16	2,113.06	209.10	11.106		
16,795.97	6,027.00	5,885.24	5,855.27	194.30	21.37	-85.34	10,955.74	-3,813.06	2,314.27	2,102.01	212.26	10.903 CC, ES, SF		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 147-MWD OWSG, 1635-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,300.00	6,027.00	5,335.42	5,285.47	40.89	21.59	-74.59	10,848.12	-4,260.36	9,959.60	9,907.47	52.13	191.035		
7,400.00	6,027.00	5,338.49	5,288.49	41.83	21.61	-74.65	10,848.22	-4,260.87	9,863.83	9,811.94	51.89	190.093		
7,500.00	6,027.00	5,341.56	5,291.52	42.83	21.62	-74.72	10,848.31	-4,261.38	9,768.14	9,716.49	51.65	189.128		
7,600.00	6,027.00	5,344.63	5,294.54	43.88	21.64	-74.78	10,848.41	-4,261.88	9,672.53	9,621.12	51.41	188.137		
7,700.00	6,027.00	5,347.70	5,297.57	44.99	21.65	-74.84	10,848.50	-4,262.39	9,577.02	9,525.84	51.18	187.118		
7,800.00	6,027.00	5,350.76	5,300.60	46.14	21.66	-74.90	10,848.59	-4,262.90	9,481.60	9,430.64	50.96	186.068		
7,900.00	6,027.00	5,353.83	5,303.62	47.33	21.68	-74.96	10,848.69	-4,263.41	9,386.27	9,335.53	50.74	184.984		
8,000.00	6,027.00	5,356.90	5,306.65	48.57	21.69	-75.02	10,848.78	-4,263.91	9,291.04	9,240.50	50.53	183.864		
8,100.00	6,027.00	5,359.97	5,309.67	49.84	21.71	-75.08	10,848.88	-4,264.42	9,195.90	9,145.57	50.33	182.703		
8,200.00	6,027.00	5,363.04	5,312.70	51.15	21.72	-75.14	10,848.97	-4,264.93	9,100.88	9,050.73	50.14	181.498		
8,300.00	6,027.00	5,366.11	5,315.72	52.48	21.73	-75.21	10,849.07	-4,265.43	9,005.96	8,955.99	49.96	180.246		
8,400.00	6,027.00	5,369.18	5,318.75	53.85	21.75	-75.27	10,849.16	-4,265.94	8,911.14	8,861.34	49.80	178.942		
8,500.00	6,027.00	5,372.25	5,321.77	55.24	21.76	-75.33	10,849.25	-4,266.45	8,816.45	8,766.80	49.65	177.584		
8,600.00	6,027.00	5,375.32	5,324.80	56.65	21.78	-75.39	10,849.35	-4,266.95	8,721.87	8,672.36	49.51	176.166		
8,700.00	6,027.00	5,378.38	5,327.82	58.08	21.79	-75.45	10,849.44	-4,267.46	8,627.41	8,578.02	49.39	174.686		
8,800.00	6,027.00	5,381.45	5,330.85	59.54	21.80	-75.51	10,849.54	-4,267.97	8,533.07	8,483.79	49.28	173.138		
8,900.00	6,027.00	5,384.52	5,333.87	61.01	21.82	-75.58	10,849.63	-4,268.47	8,438.87	8,389.67	49.20	171.519		
9,000.00	6,027.00	5,387.59	5,336.90	62.50	21.83	-75.64	10,849.72	-4,268.98	8,344.80	8,295.66	49.14	169.824		
9,100.00	6,027.00	5,390.66	5,339.92	64.01	21.85	-75.70	10,849.82	-4,269.49	8,250.86	8,201.77	49.10	168.051		
9,200.00	6,027.00	5,393.73	5,342.95	65.53	21.86	-75.76	10,849.91	-4,269.99	8,157.07	8,107.99	49.08	166.194		
9,300.00	6,027.00	5,396.80	5,345.97	67.06	21.87	-75.82	10,850.01	-4,270.50	8,063.43	8,014.34	49.09	164.252		
9,400.00	6,027.00	5,399.87	5,349.00	68.61	21.89	-75.88	10,850.10	-4,271.01	7,969.94	7,920.81	49.13	162.222		
9,500.00	6,027.00	5,402.93	5,352.02	70.17	21.90	-75.94	10,850.19	-4,271.51	7,876.61	7,827.42	49.20	160.100		
9,600.00	6,027.00	5,406.00	5,355.05	71.73	21.92	-76.01	10,850.29	-4,272.02	7,783.45	7,734.15	49.30	157.885		
9,700.00	6,027.00	5,409.07	5,358.07	73.31	21.93	-76.07	10,850.38	-4,272.53	7,690.45	7,641.02	49.43	155.576		
9,800.00	6,027.00	5,412.14	5,361.10	74.90	21.94	-76.13	10,850.48	-4,273.03	7,597.64	7,548.03	49.60	153.173		
9,900.00	6,027.00	5,415.21	5,364.12	76.50	21.96	-76.19	10,850.57	-4,273.54	7,505.00	7,455.19	49.81	150.676		
10,000.00	6,027.00	5,418.28	5,367.15	78.10	21.97	-76.25	10,850.66	-4,274.05	7,412.56	7,362.50	50.06	148.086		
10,100.00	6,027.00	5,421.35	5,370.18	79.71	21.99	-76.31	10,850.76	-4,274.55	7,320.31	7,269.97	50.34	145.406		
10,200.00	6,027.00	5,424.42	5,373.20	81.33	22.00	-76.38	10,850.85	-4,275.06	7,228.27	7,177.59	50.68	142.639		
10,300.00	6,027.00	5,427.49	5,376.23	82.96	22.01	-76.44	10,850.95	-4,275.57	7,136.44	7,085.39	51.05	139.788		
10,400.00	6,027.00	5,430.55	5,379.25	84.59	22.03	-76.50	10,851.04	-4,276.07	7,044.83	6,993.35	51.47	136.859		
10,500.00	6,027.00	5,433.62	5,382.28	86.23	22.04	-76.56	10,851.13	-4,276.58	6,953.45	6,901.50	51.95	133.858		
10,600.00	6,027.00	5,436.69	5,385.30	87.87	22.06	-76.62	10,851.23	-4,277.09	6,862.31	6,809.84	52.47	130.791		
10,700.00	6,027.00	5,439.76	5,388.33	89.52	22.07	-76.68	10,851.32	-4,277.60	6,771.42	6,718.38	53.04	127.665		
10,800.00	6,027.00	5,442.83	5,391.35	91.17	22.08	-76.75	10,851.42	-4,278.10	6,680.79	6,627.12	53.67	124.488		
10,900.00	6,027.00	5,445.90	5,394.38	92.83	22.10	-76.81	10,851.51	-4,278.61	6,590.43	6,536.08	54.35	121.268		
11,000.00	6,027.00	5,448.97	5,397.40	94.49	22.11	-76.87	10,851.61	-4,279.12	6,500.35	6,445.27	55.08	118.014		
11,100.00	6,027.00	5,452.04	5,400.43	96.16	22.13	-76.93	10,851.70	-4,279.62	6,410.56	6,354.68	55.87	114.735		
11,200.00	6,027.00	5,455.10	5,403.45	97.83	22.14	-76.99	10,851.79	-4,280.13	6,321.07	6,264.35	56.72	111.438		
11,300.00	6,027.00	5,458.17	5,406.48	99.50	22.15	-77.05	10,851.89	-4,280.64	6,231.91	6,174.28	57.63	108.134		
11,400.00	6,027.00	5,461.24	5,409.50	101.18	22.17	-77.12	10,851.98	-4,281.14	6,143.07	6,084.47	58.60	104.830		
11,500.00	6,027.00	5,464.31	5,412.53	102.86	22.18	-77.18	10,852.08	-4,281.65	6,054.59	5,994.96	59.63	101.535		
11,600.00	6,027.00	5,467.38	5,415.55	104.54	22.19	-77.24	10,852.17	-4,282.16	5,966.46	5,905.74	60.72	98.257		
11,700.00	6,027.00	5,470.45	5,418.58	106.23	22.21	-77.30	10,852.26	-4,282.66	5,878.72	5,816.84	61.88	95.003		
11,800.00	6,027.00	5,473.52	5,421.60	107.92	22.22	-77.36	10,852.36	-4,283.17	5,791.37	5,728.27	63.10	91.781		
11,900.00	6,027.00	5,476.59	5,424.63	109.61	22.24	-77.43	10,852.45	-4,283.68	5,704.43	5,640.05	64.39	88.597		
12,000.00	6,027.00	5,479.66	5,427.65	111.31	22.25	-77.49	10,852.55	-4,284.18	5,617.93	5,552.19	65.74	85.457		
12,100.00	6,027.00	5,482.72	5,430.68	113.00	22.26	-77.55	10,852.64	-4,284.69	5,531.88	5,464.72	67.16	82.367		
12,200.00	6,027.00	5,485.79	5,433.71	114.71	22.28	-77.61	10,852.73	-4,285.20	5,446.30	5,377.65	68.65	79.332		
12,300.00	6,027.00	5,488.86	5,436.73	116.41	22.29	-77.67	10,852.83	-4,285.70	5,361.22	5,291.01	70.21	76.355		
12,400.00	6,027.00	5,491.93	5,439.76	118.11	22.31	-77.73	10,852.92	-4,286.21	5,276.67	5,204.82	71.85	73.442		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL 2		Offset Site Error: 0.00 usft	
Survey Program:		147-MWD OWSG, 1635-MWD OWSG											Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
12,500.00	6,027.00	5,495.00	5,442.78	119.82	22.32	-77.80	10,853.02	-4,286.72	5,192.66	5,119.10	73.56	70.595				
12,600.00	6,027.00	5,498.07	5,445.81	121.53	22.33	-77.86	10,853.11	-4,287.22	5,109.22	5,033.89	75.34	67.817				
12,700.00	6,027.00	5,501.14	5,448.83	123.24	22.35	-77.92	10,853.20	-4,287.73	5,026.39	4,949.19	77.20	65.110				
12,800.00	6,027.00	5,504.21	5,451.86	124.95	22.36	-77.98	10,853.30	-4,288.24	4,944.19	4,865.06	79.14	62.477				
12,900.00	6,027.00	5,507.27	5,454.88	126.66	22.38	-78.04	10,853.39	-4,288.74	4,862.66	4,781.51	81.15	59.919				
13,000.00	6,027.00	5,510.34	5,457.91	128.38	22.39	-78.11	10,853.49	-4,289.25	4,781.82	4,698.57	83.25	57.438				
13,100.00	6,027.00	5,513.41	5,460.93	130.10	22.40	-78.17	10,853.58	-4,289.76	4,701.72	4,616.29	85.43	55.033				
13,200.00	6,027.00	5,516.48	5,463.96	131.82	22.42	-78.23	10,853.67	-4,290.26	4,622.40	4,534.70	87.70	52.706				
13,300.00	6,027.00	5,519.55	5,466.98	133.54	22.43	-78.29	10,853.77	-4,290.77	4,543.89	4,453.83	90.05	50.457				
13,400.00	6,027.00	5,522.62	5,470.01	135.26	22.45	-78.35	10,853.86	-4,291.28	4,466.23	4,373.73	92.50	48.286				
13,500.00	6,027.00	5,525.69	5,473.03	136.98	22.46	-78.41	10,853.96	-4,291.79	4,389.48	4,294.45	95.03	46.192				
13,600.00	6,027.00	5,528.76	5,476.06	138.71	22.47	-78.48	10,854.05	-4,292.29	4,313.67	4,216.02	97.65	44.176				
13,700.00	6,027.00	5,531.83	5,479.08	140.43	22.49	-78.54	10,854.15	-4,292.80	4,238.87	4,138.51	100.36	42.236				
13,800.00	6,027.00	5,534.89	5,482.11	142.16	22.50	-78.60	10,854.24	-4,293.31	4,165.13	4,061.96	103.17	40.371				
13,900.00	6,027.00	5,537.96	5,485.13	143.89	22.52	-78.66	10,854.33	-4,293.81	4,092.49	3,986.42	106.07	38.582				
14,000.00	6,027.00	5,541.03	5,488.16	145.62	22.53	-78.72	10,854.43	-4,294.32	4,021.03	3,911.96	109.07	36.867				
14,100.00	6,027.00	5,544.10	5,491.18	147.35	22.54	-78.79	10,854.52	-4,294.83	3,950.81	3,838.64	112.16	35.224				
14,200.00	6,027.00	5,547.17	5,494.21	149.08	22.56	-78.85	10,854.62	-4,295.33	3,881.89	3,766.54	115.35	33.653				
14,300.00	6,027.00	5,550.24	5,497.23	150.81	22.57	-78.91	10,854.71	-4,295.84	3,814.34	3,695.71	118.63	32.152				
14,400.00	6,027.00	5,553.31	5,500.26	152.54	22.59	-78.97	10,854.80	-4,296.35	3,748.24	3,626.23	122.01	30.721				
14,500.00	6,027.00	5,556.38	5,503.29	154.28	22.60	-79.03	10,854.90	-4,296.85	3,683.67	3,558.19	125.48	29.357				
14,600.00	6,027.00	5,559.44	5,506.31	156.01	22.61	-79.10	10,854.99	-4,297.36	3,620.70	3,491.67	129.04	28.060				
14,700.00	6,027.00	5,562.51	5,509.34	157.75	22.63	-79.16	10,855.09	-4,297.87	3,559.43	3,426.75	132.68	26.827				
14,800.00	6,027.00	5,565.58	5,512.36	159.49	22.64	-79.22	10,855.18	-4,298.37	3,499.94	3,363.54	136.41	25.658				
14,900.00	6,027.00	5,568.65	5,515.39	161.22	22.66	-79.28	10,855.27	-4,298.88	3,442.33	3,302.12	140.21	24.551				
15,000.00	6,027.00	5,571.72	5,518.41	162.96	22.67	-79.34	10,855.37	-4,299.39	3,386.69	3,242.60	144.09	23.504				
15,100.00	6,027.00	5,574.79	5,521.44	164.70	22.68	-79.41	10,855.46	-4,299.89	3,333.11	3,185.08	148.03	22.516				
15,200.00	6,027.00	5,577.86	5,524.46	166.44	22.70	-79.47	10,855.56	-4,300.40	3,281.71	3,129.68	152.03	21.586				
15,300.00	6,027.00	5,580.93	5,527.49	168.18	22.71	-79.53	10,855.65	-4,300.91	3,232.58	3,076.51	156.07	20.713				
15,400.00	6,027.00	5,584.00	5,530.51	169.93	22.73	-79.59	10,855.74	-4,301.41	3,185.83	3,025.69	160.14	19.894				
15,500.00	6,027.00	5,587.06	5,533.54	171.67	22.74	-79.65	10,855.84	-4,301.92	3,141.56	2,977.33	164.24	19.128				
15,600.00	6,027.00	5,588.46	5,534.92	173.41	22.75	-79.68	10,855.88	-4,302.15	3,099.89	2,931.56	168.33	18.416				
15,700.00	6,027.00	5,588.46	5,534.92	175.15	22.75	-79.68	10,855.88	-4,302.15	3,060.92	2,888.52	172.40	17.755				
15,800.00	6,027.00	5,588.46	5,534.92	176.90	22.75	-79.68	10,855.88	-4,302.15	3,024.75	2,848.31	176.44	17.143				
15,900.00	6,027.00	5,592.58	5,538.98	178.64	22.77	-79.76	10,856.02	-4,302.83	2,991.49	2,811.01	180.48	16.576				
16,000.00	6,027.00	5,594.12	5,540.49	180.39	22.77	-79.80	10,856.08	-4,303.09	2,961.22	2,776.80	184.43	16.056				
16,100.00	6,027.00	5,595.88	5,542.23	182.13	22.78	-79.83	10,856.16	-4,303.38	2,934.06	2,745.76	188.30	15.582				
16,200.00	6,027.00	5,600.00	5,546.29	183.88	22.80	-79.91	10,856.35	-4,304.06	2,910.08	2,717.98	192.09	15.149				
16,300.00	6,027.00	5,600.00	5,546.29	185.63	22.80	-79.91	10,856.35	-4,304.06	2,889.35	2,693.62	195.73	14.762				
16,400.00	6,027.00	5,600.00	5,546.29	187.38	22.80	-79.91	10,856.35	-4,304.06	2,871.96	2,672.74	199.22	14.416				
16,500.00	6,027.00	5,600.00	5,546.29	189.12	22.80	-79.91	10,856.35	-4,304.06	2,857.96	2,655.41	202.55	14.110				
16,600.00	6,027.00	5,611.23	5,557.34	190.87	22.85	-80.14	10,857.03	-4,305.91	2,847.38	2,641.56	205.83	13.834				
16,700.00	6,027.00	5,616.86	5,562.88	192.62	22.88	-80.25	10,857.45	-4,306.83	2,840.28	2,631.43	208.85	13.600				
16,795.97	6,027.00	5,623.98	5,569.88	194.30	22.91	-80.40	10,858.07	-4,308.00	2,836.76	2,625.18	211.58	13.408 CC, ES, SF				



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-04 - OWB - SURFACE													Offset Site Error:	0.00 usft
Survey Program: 147-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,000.00	6,027.00	1,698.00	1,695.88	48.57	5.76	-26.63	10,742.03	-3,691.46	9,998.82	9,963.46	35.36	282.784		
8,100.00	6,027.00	1,698.00	1,695.88	49.84	5.76	-26.63	10,742.03	-3,691.46	9,911.56	9,876.26	35.30	280.800		
8,200.00	6,027.00	1,698.00	1,695.88	51.15	5.76	-26.63	10,742.03	-3,691.46	9,824.55	9,789.30	35.25	278.708		
8,300.00	6,027.00	1,698.00	1,695.88	52.48	5.76	-26.63	10,742.03	-3,691.46	9,737.78	9,702.56	35.22	276.500		
8,400.00	6,027.00	1,698.00	1,695.88	53.85	5.76	-26.63	10,742.03	-3,691.46	9,651.27	9,616.07	35.20	274.175		
8,500.00	6,027.00	1,698.00	1,695.88	55.24	5.76	-26.63	10,742.03	-3,691.46	9,565.03	9,529.83	35.20	271.729		
8,600.00	6,027.00	1,698.00	1,695.88	56.65	5.76	-26.63	10,742.03	-3,691.46	9,479.05	9,443.84	35.22	269.158		
8,700.00	6,027.00	1,698.00	1,695.88	58.08	5.76	-26.63	10,742.03	-3,691.46	9,393.36	9,358.11	35.25	266.460		
8,800.00	6,027.00	1,698.00	1,695.88	59.54	5.76	-26.63	10,742.03	-3,691.46	9,307.95	9,272.64	35.31	263.634		
8,900.00	6,027.00	1,698.00	1,695.88	61.01	5.76	-26.63	10,742.03	-3,691.46	9,222.83	9,187.45	35.38	260.677		
9,000.00	6,027.00	1,698.00	1,695.88	62.50	5.76	-26.63	10,742.03	-3,691.46	9,138.01	9,102.54	35.47	257.590		
9,100.00	6,027.00	1,698.00	1,695.88	64.01	5.76	-26.63	10,742.03	-3,691.46	9,053.51	9,017.91	35.59	254.373		
9,200.00	6,027.00	1,698.00	1,695.88	65.53	5.76	-26.63	10,742.03	-3,691.46	8,969.32	8,933.59	35.73	251.027		
9,300.00	6,027.00	1,698.00	1,695.88	67.06	5.76	-26.63	10,742.03	-3,691.46	8,885.46	8,849.56	35.89	247.555		
9,400.00	6,027.00	1,698.00	1,695.88	68.61	5.76	-26.63	10,742.03	-3,691.46	8,801.93	8,765.85	36.08	243.959		
9,500.00	6,027.00	1,698.00	1,695.88	70.17	5.76	-26.63	10,742.03	-3,691.46	8,718.76	8,682.47	36.29	240.243		
9,600.00	6,027.00	1,698.00	1,695.88	71.73	5.76	-26.63	10,742.03	-3,691.46	8,635.94	8,599.41	36.53	236.412		
9,700.00	6,027.00	1,698.00	1,695.88	73.31	5.76	-26.63	10,742.03	-3,691.46	8,553.49	8,516.69	36.79	232.472		
9,800.00	6,027.00	1,698.00	1,695.88	74.90	5.76	-26.63	10,742.03	-3,691.46	8,471.41	8,434.33	37.09	228.429		
9,900.00	6,027.00	1,698.00	1,695.88	76.50	5.76	-26.63	10,742.03	-3,691.46	8,389.73	8,352.32	37.41	224.291		
10,000.00	6,027.00	1,698.00	1,695.88	78.10	5.76	-26.63	10,742.03	-3,691.46	8,308.44	8,270.69	37.75	220.065		
10,100.00	6,027.00	1,698.00	1,695.88	79.71	5.76	-26.63	10,742.03	-3,691.46	8,227.57	8,189.44	38.13	215.761		
10,200.00	6,027.00	1,698.00	1,695.88	81.33	5.76	-26.63	10,742.03	-3,691.46	8,147.12	8,108.58	38.54	211.387		
10,300.00	6,027.00	1,698.00	1,695.88	82.96	5.76	-26.63	10,742.03	-3,691.46	8,067.11	8,028.13	38.98	206.954		
10,400.00	6,027.00	1,698.00	1,695.88	84.59	5.76	-26.63	10,742.03	-3,691.46	7,987.55	7,948.10	39.45	202.471		
10,500.00	6,027.00	1,698.00	1,695.88	86.23	5.76	-26.63	10,742.03	-3,691.46	7,908.46	7,868.51	39.95	197.948		
10,600.00	6,027.00	1,698.00	1,695.88	87.87	5.76	-26.63	10,742.03	-3,691.46	7,829.84	7,789.35	40.49	193.397		
10,700.00	6,027.00	1,698.00	1,695.88	89.52	5.76	-26.63	10,742.03	-3,691.46	7,751.72	7,710.66	41.05	188.826		
10,800.00	6,027.00	1,698.00	1,695.88	91.17	5.76	-26.63	10,742.03	-3,691.46	7,674.10	7,632.45	41.65	184.247		
10,900.00	6,027.00	1,698.00	1,695.88	92.83	5.76	-26.63	10,742.03	-3,691.46	7,597.00	7,554.72	42.28	179.670		
11,000.00	6,027.00	1,698.00	1,695.88	94.49	5.76	-26.63	10,742.03	-3,691.46	7,520.45	7,477.50	42.95	175.103		
11,100.00	6,027.00	1,698.00	1,695.88	96.16	5.76	-26.63	10,742.03	-3,691.46	7,444.45	7,400.80	43.65	170.558		
11,200.00	6,027.00	1,698.00	1,695.88	97.83	5.76	-26.63	10,742.03	-3,691.46	7,369.03	7,324.65	44.38	166.041		
11,300.00	6,027.00	1,698.00	1,695.88	99.50	5.76	-26.63	10,742.03	-3,691.46	7,294.19	7,249.05	45.15	161.564		
11,400.00	6,027.00	1,698.00	1,695.88	101.18	5.76	-26.63	10,742.03	-3,691.46	7,219.97	7,174.02	45.95	157.132		
11,500.00	6,027.00	1,698.00	1,695.88	102.86	5.76	-26.63	10,742.03	-3,691.46	7,146.37	7,099.59	46.78	152.754		
11,600.00	6,027.00	1,698.00	1,695.88	104.54	5.76	-26.63	10,742.03	-3,691.46	7,073.43	7,025.77	47.65	148.436		
11,700.00	6,027.00	1,698.00	1,695.88	106.23	5.76	-26.63	10,742.03	-3,691.46	7,001.15	6,952.59	48.56	144.184		
11,800.00	6,027.00	1,698.00	1,695.88	107.92	5.76	-26.63	10,742.03	-3,691.46	6,929.56	6,880.06	49.50	140.005		
11,900.00	6,027.00	1,698.00	1,695.88	109.61	5.76	-26.63	10,742.03	-3,691.46	6,858.68	6,808.21	50.47	135.903		
12,000.00	6,027.00	1,698.00	1,695.88	111.31	5.76	-26.63	10,742.03	-3,691.46	6,788.53	6,737.06	51.47	131.882		
12,100.00	6,027.00	1,698.00	1,695.88	113.00	5.76	-26.63	10,742.03	-3,691.46	6,719.14	6,666.62	52.51	127.947		
12,200.00	6,027.00	1,698.00	1,695.88	114.71	5.76	-26.63	10,742.03	-3,691.46	6,650.53	6,596.94	53.59	124.101		
12,300.00	6,027.00	1,698.00	1,695.88	116.41	5.76	-26.63	10,742.03	-3,691.46	6,582.72	6,528.02	54.70	120.345		
12,400.00	6,027.00	1,698.00	1,695.88	118.11	5.76	-26.63	10,742.03	-3,691.46	6,515.74	6,459.90	55.84	116.684		
12,500.00	6,027.00	1,698.00	1,695.88	119.82	5.76	-26.63	10,742.03	-3,691.46	6,449.62	6,392.60	57.02	113.118		
12,600.00	6,027.00	1,698.00	1,695.88	121.53	5.76	-26.63	10,742.03	-3,691.46	6,384.38	6,326.15	58.23	109.649		
12,700.00	6,027.00	1,698.00	1,695.88	123.24	5.76	-26.63	10,742.03	-3,691.46	6,320.05	6,260.58	59.47	106.277		
12,800.00	6,027.00	1,698.00	1,695.88	124.95	5.76	-26.63	10,742.03	-3,691.46	6,256.65	6,195.91	60.74	103.004		
12,900.00	6,027.00	1,698.00	1,695.88	126.66	5.76	-26.63	10,742.03	-3,691.46	6,194.22	6,132.18	62.05	99.829		
13,000.00	6,027.00	1,698.00	1,695.88	128.38	5.76	-26.63	10,742.03	-3,691.46	6,132.79	6,069.40	63.39	96.753		
13,100.00	6,027.00	1,698.00	1,695.88	130.10	5.76	-26.63	10,742.03	-3,691.46	6,072.38	6,007.62	64.75	93.775		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-04 - OWB - SURFACE													Offset Site Error:	0.00 usft
Survey Program: 147-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,200.00	6,027.00	1,698.00	1,695.88	131.82	5.76	-26.63	10,742.03	-3,691.46	6,013.03	5,946.87	66.15	90.894		
13,300.00	6,027.00	1,698.00	1,695.88	133.54	5.76	-26.63	10,742.03	-3,691.46	5,954.76	5,887.18	67.58	88.110		
13,400.00	6,027.00	1,698.00	1,695.88	135.26	5.76	-26.63	10,742.03	-3,691.46	5,897.62	5,828.58	69.04	85.422		
13,500.00	6,027.00	1,698.00	1,695.88	136.98	5.76	-26.63	10,742.03	-3,691.46	5,841.62	5,771.10	70.53	82.829		
13,600.00	6,027.00	1,698.00	1,695.88	138.71	5.76	-26.63	10,742.03	-3,691.46	5,786.82	5,714.78	72.04	80.328		
13,700.00	6,027.00	1,698.00	1,695.88	140.43	5.76	-26.63	10,742.03	-3,691.46	5,733.23	5,659.66	73.58	77.920		
13,800.00	6,027.00	1,698.00	1,695.88	142.16	5.76	-26.63	10,742.03	-3,691.46	5,680.90	5,605.76	75.14	75.601		
13,900.00	6,027.00	1,698.00	1,695.88	143.89	5.76	-26.63	10,742.03	-3,691.46	5,629.86	5,553.13	76.73	73.371		
14,000.00	6,027.00	1,698.00	1,695.88	145.62	5.76	-26.63	10,742.03	-3,691.46	5,580.15	5,501.81	78.34	71.228		
14,100.00	6,027.00	1,698.00	1,695.88	147.35	5.76	-26.63	10,742.03	-3,691.46	5,531.79	5,451.82	79.97	69.170		
14,200.00	6,027.00	1,698.00	1,695.88	149.08	5.76	-26.63	10,742.03	-3,691.46	5,484.84	5,403.21	81.62	67.196		
14,300.00	6,027.00	1,698.00	1,695.88	150.81	5.76	-26.63	10,742.03	-3,691.46	5,439.31	5,356.02	83.29	65.302		
14,400.00	6,027.00	1,698.00	1,695.88	152.54	5.76	-26.63	10,742.03	-3,691.46	5,395.26	5,310.28	84.98	63.489		
14,500.00	6,027.00	1,698.00	1,695.88	154.28	5.76	-26.63	10,742.03	-3,691.46	5,352.71	5,266.03	86.68	61.753		
14,600.00	6,027.00	1,698.00	1,695.88	156.01	5.76	-26.63	10,742.03	-3,691.46	5,311.71	5,223.31	88.39	60.092		
14,700.00	6,027.00	1,698.00	1,695.88	157.75	5.76	-26.63	10,742.03	-3,691.46	5,272.28	5,182.16	90.12	58.506		
14,800.00	6,027.00	1,698.00	1,695.88	159.49	5.76	-26.63	10,742.03	-3,691.46	5,234.47	5,142.62	91.85	56.991		
14,900.00	6,027.00	1,698.00	1,695.88	161.22	5.76	-26.63	10,742.03	-3,691.46	5,198.30	5,104.72	93.58	55.547		
15,000.00	6,027.00	1,698.00	1,695.88	162.96	5.76	-26.63	10,742.03	-3,691.46	5,163.82	5,068.49	95.32	54.171		
15,100.00	6,027.00	1,698.00	1,695.88	164.70	5.76	-26.63	10,742.03	-3,691.46	5,131.05	5,033.99	97.07	52.861		
15,200.00	6,027.00	1,698.00	1,695.88	166.44	5.76	-26.63	10,742.03	-3,691.46	5,100.04	5,001.23	98.81	51.617		
15,300.00	6,027.00	1,698.00	1,695.88	168.18	5.76	-26.63	10,742.03	-3,691.46	5,070.81	4,970.27	100.54	50.434		
15,400.00	6,027.00	1,698.00	1,695.88	169.93	5.76	-26.63	10,742.03	-3,691.46	5,043.39	4,941.12	102.27	49.314		
15,500.00	6,027.00	1,698.00	1,695.88	171.67	5.76	-26.63	10,742.03	-3,691.46	5,017.82	4,913.83	103.99	48.252		
15,600.00	6,027.00	1,698.00	1,695.88	173.41	5.76	-26.63	10,742.03	-3,691.46	4,994.12	4,888.42	105.70	47.248		
15,700.00	6,027.00	1,698.00	1,695.88	175.15	5.76	-26.63	10,742.03	-3,691.46	4,972.31	4,864.92	107.39	46.301		
15,800.00	6,027.00	1,698.00	1,695.88	176.90	5.76	-26.63	10,742.03	-3,691.46	4,952.43	4,843.37	109.07	45.407		
15,900.00	6,027.00	1,698.00	1,695.88	178.64	5.76	-26.63	10,742.03	-3,691.46	4,934.50	4,823.78	110.72	44.567		
16,000.00	6,027.00	1,698.00	1,695.88	180.39	5.76	-26.63	10,742.03	-3,691.46	4,918.53	4,806.18	112.35	43.778		
16,100.00	6,027.00	1,698.00	1,695.88	182.13	5.76	-26.63	10,742.03	-3,691.46	4,904.56	4,790.60	113.96	43.039		
16,200.00	6,027.00	1,698.00	1,695.88	183.88	5.76	-26.63	10,742.03	-3,691.46	4,892.58	4,777.05	115.53	42.349		
16,300.00	6,027.00	1,698.00	1,695.88	185.63	5.76	-26.63	10,742.03	-3,691.46	4,882.63	4,765.55	117.08	41.705		
16,400.00	6,027.00	1,698.00	1,695.88	187.38	5.76	-26.63	10,742.03	-3,691.46	4,874.71	4,756.12	118.59	41.107		
16,500.00	6,027.00	1,698.00	1,695.88	189.12	5.76	-26.63	10,742.03	-3,691.46	4,868.82	4,748.77	120.06	40.554		
16,600.00	6,027.00	1,698.00	1,695.88	190.87	5.76	-26.63	10,742.03	-3,691.46	4,864.99	4,743.50	121.49	40.043		
16,700.00	6,027.00	1,698.00	1,695.88	192.62	5.76	-26.63	10,742.03	-3,691.46	4,863.21	4,740.33	122.89	39.575		
16,736.56	6,027.00	1,698.00	1,695.88	193.26	5.76	-26.63	10,742.03	-3,691.46	4,863.08	4,739.69	123.39	39.413 CC		
16,795.97	6,027.00	1,698.00	1,695.88	194.30	5.76	-26.63	10,742.03	-3,691.46	4,863.44	4,739.26	124.18	39.163 ES, SF		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,100.00	6,027.00	5,533.77	5,528.66	39.21	20.05	-77.34	10,855.35	-3,801.69	10,028.42	9,976.44	51.98	192.927		
7,200.00	6,027.00	5,533.77	5,528.66	40.02	20.05	-77.34	10,855.35	-3,801.69	9,931.23	9,879.48	51.75	191.916		
7,300.00	6,027.00	5,533.77	5,528.66	40.89	20.05	-77.34	10,855.35	-3,801.69	9,834.09	9,782.57	51.52	190.893		
7,400.00	6,027.00	5,541.66	5,536.55	41.83	20.08	-77.53	10,855.66	-3,801.94	9,736.95	9,685.64	51.31	189.755		
7,500.00	6,027.00	5,541.93	5,536.81	42.83	20.08	-77.54	10,855.68	-3,801.95	9,639.93	9,588.84	51.09	188.701		
7,600.00	6,027.00	5,542.20	5,537.08	43.88	20.08	-77.54	10,855.69	-3,801.95	9,542.96	9,492.10	50.86	187.630		
7,700.00	6,027.00	5,550.00	5,544.87	44.99	20.11	-77.73	10,856.11	-3,802.20	9,446.11	9,395.45	50.66	186.448		
7,800.00	6,027.00	5,550.00	5,544.87	46.14	20.11	-77.73	10,856.11	-3,802.20	9,349.28	9,298.83	50.44	185.343		
7,900.00	6,027.00	5,550.00	5,544.87	47.33	20.11	-77.73	10,856.11	-3,802.20	9,252.50	9,202.28	50.23	184.217		
8,000.00	6,027.00	5,550.00	5,544.87	48.57	20.11	-77.73	10,856.11	-3,802.20	9,155.80	9,105.79	50.01	183.067		
8,100.00	6,027.00	5,550.00	5,544.87	49.84	20.11	-77.73	10,856.11	-3,802.20	9,059.17	9,009.37	49.81	181.892		
8,200.00	6,027.00	5,550.00	5,544.87	51.15	20.11	-77.73	10,856.11	-3,802.20	8,962.61	8,913.01	49.60	180.688		
8,300.00	6,027.00	5,550.00	5,544.87	52.48	20.11	-77.73	10,856.11	-3,802.20	8,866.13	8,816.73	49.41	179.455		
8,400.00	6,027.00	5,550.00	5,544.87	53.85	20.11	-77.73	10,856.11	-3,802.20	8,769.73	8,720.52	49.22	178.189		
8,500.00	6,027.00	5,550.00	5,544.87	55.24	20.11	-77.73	10,856.11	-3,802.20	8,673.41	8,624.38	49.03	176.887		
8,600.00	6,027.00	5,550.00	5,544.87	56.65	20.11	-77.73	10,856.11	-3,802.20	8,577.18	8,528.32	48.86	175.547		
8,700.00	6,027.00	5,550.00	5,544.87	58.08	20.11	-77.73	10,856.11	-3,802.20	8,481.03	8,432.33	48.70	174.166		
8,800.00	6,027.00	5,550.00	5,544.87	59.54	20.11	-77.73	10,856.11	-3,802.20	8,384.97	8,336.43	48.54	172.740		
8,900.00	6,027.00	5,550.00	5,544.87	61.01	20.11	-77.73	10,856.11	-3,802.20	8,289.00	8,240.61	48.40	171.267		
9,000.00	6,027.00	5,550.00	5,544.87	62.50	20.11	-77.73	10,856.11	-3,802.20	8,193.13	8,144.87	48.27	169.743		
9,100.00	6,027.00	5,550.00	5,544.87	64.01	20.11	-77.73	10,856.11	-3,802.20	8,097.37	8,049.21	48.15	168.164		
9,200.00	6,027.00	5,550.00	5,544.87	65.53	20.11	-77.73	10,856.11	-3,802.20	8,001.70	7,953.65	48.05	166.527		
9,300.00	6,027.00	5,550.00	5,544.87	67.06	20.11	-77.73	10,856.11	-3,802.20	7,906.14	7,858.18	47.97	164.829		
9,400.00	6,027.00	5,550.00	5,544.87	68.61	20.11	-77.73	10,856.11	-3,802.20	7,810.69	7,762.80	47.90	163.066		
9,500.00	6,027.00	5,550.00	5,544.87	70.17	20.11	-77.73	10,856.11	-3,802.20	7,715.36	7,667.51	47.85	161.235		
9,600.00	6,027.00	5,550.00	5,544.87	71.73	20.11	-77.73	10,856.11	-3,802.20	7,620.15	7,572.33	47.83	159.333		
9,700.00	6,027.00	5,550.00	5,544.87	73.31	20.11	-77.73	10,856.11	-3,802.20	7,525.06	7,477.24	47.82	157.355		
9,800.00	6,027.00	5,550.00	5,544.87	74.90	20.11	-77.73	10,856.11	-3,802.20	7,430.10	7,382.26	47.84	155.301		
9,900.00	6,027.00	5,550.00	5,544.87	76.50	20.11	-77.73	10,856.11	-3,802.20	7,335.28	7,287.39	47.89	153.166		
10,000.00	6,027.00	5,550.00	5,544.87	78.10	20.11	-77.73	10,856.11	-3,802.20	7,240.59	7,192.63	47.97	150.949		
10,100.00	6,027.00	5,550.00	5,544.87	79.71	20.11	-77.73	10,856.11	-3,802.20	7,146.05	7,097.98	48.07	148.649		
10,200.00	6,027.00	5,550.00	5,544.87	81.33	20.11	-77.73	10,856.11	-3,802.20	7,051.66	7,003.45	48.21	146.264		
10,300.00	6,027.00	5,550.00	5,544.87	82.96	20.11	-77.73	10,856.11	-3,802.20	6,957.43	6,909.05	48.38	143.795		
10,400.00	6,027.00	5,550.00	5,544.87	84.59	20.11	-77.73	10,856.11	-3,802.20	6,863.36	6,814.77	48.59	141.240		
10,500.00	6,027.00	5,550.00	5,544.87	86.23	20.11	-77.73	10,856.11	-3,802.20	6,769.46	6,720.62	48.84	138.602		
10,600.00	6,027.00	5,550.00	5,544.87	87.87	20.11	-77.73	10,856.11	-3,802.20	6,675.74	6,626.61	49.13	135.882		
10,700.00	6,027.00	5,550.00	5,544.87	89.52	20.11	-77.73	10,856.11	-3,802.20	6,582.20	6,532.74	49.46	133.083		
10,800.00	6,027.00	5,550.00	5,544.87	91.17	20.11	-77.73	10,856.11	-3,802.20	6,488.85	6,439.02	49.83	130.208		
10,900.00	6,027.00	5,550.00	5,544.87	92.83	20.11	-77.73	10,856.11	-3,802.20	6,395.71	6,345.45	50.26	127.262		
11,000.00	6,027.00	5,550.00	5,544.87	94.49	20.11	-77.73	10,856.11	-3,802.20	6,302.77	6,252.05	50.73	124.250		
11,100.00	6,027.00	5,550.00	5,544.87	96.16	20.11	-77.73	10,856.11	-3,802.20	6,210.06	6,158.81	51.25	121.178		
11,200.00	6,027.00	5,550.00	5,544.87	97.83	20.11	-77.73	10,856.11	-3,802.20	6,117.57	6,065.75	51.82	118.052		
11,300.00	6,027.00	5,550.00	5,544.87	99.50	20.11	-77.73	10,856.11	-3,802.20	6,025.33	5,972.88	52.45	114.879		
11,400.00	6,027.00	5,550.00	5,544.87	101.18	20.11	-77.73	10,856.11	-3,802.20	5,933.33	5,880.20	53.13	111.668		
11,500.00	6,027.00	5,550.00	5,544.87	102.86	20.11	-77.73	10,856.11	-3,802.20	5,841.60	5,787.73	53.88	108.426		
11,600.00	6,027.00	5,550.00	5,544.87	104.54	20.11	-77.73	10,856.11	-3,802.20	5,750.15	5,695.47	54.68	105.161		
11,700.00	6,027.00	5,550.00	5,544.87	106.23	20.11	-77.73	10,856.11	-3,802.20	5,658.98	5,603.44	55.54	101.882		
11,800.00	6,027.00	5,550.00	5,544.87	107.92	20.11	-77.73	10,856.11	-3,802.20	5,568.12	5,511.65	56.47	98.598		
11,900.00	6,027.00	5,550.00	5,544.87	109.61	20.11	-77.73	10,856.11	-3,802.20	5,477.58	5,420.11	57.47	95.316		
12,000.00	6,027.00	5,550.00	5,544.87	111.31	20.11	-77.73	10,856.11	-3,802.20	5,387.37	5,328.84	58.53	92.045		
12,100.00	6,027.00	5,550.00	5,544.87	113.00	20.11	-77.73	10,856.11	-3,802.20	5,297.51	5,237.85	59.66	88.793		
12,200.00	6,027.00	5,550.00	5,544.87	114.71	20.11	-77.73	10,856.11	-3,802.20	5,208.02	5,147.16	60.86	85.568		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,300.00	6,027.00	5,550.00	5,544.87	116.41	20.11	-77.73	10,856.11	-3,802.20	5,118.92	5,056.78	62.14	82.377		
12,400.00	6,027.00	5,550.00	5,544.87	118.11	20.11	-77.73	10,856.11	-3,802.20	5,030.23	4,966.74	63.49	79.227		
12,500.00	6,027.00	5,550.00	5,544.87	119.82	20.11	-77.73	10,856.11	-3,802.20	4,941.97	4,877.05	64.92	76.123		
12,600.00	6,027.00	5,550.00	5,544.87	121.53	20.11	-77.73	10,856.11	-3,802.20	4,854.17	4,787.74	66.43	73.073		
12,700.00	6,027.00	5,550.00	5,544.87	123.24	20.11	-77.73	10,856.11	-3,802.20	4,766.85	4,698.83	68.02	70.080		
12,800.00	6,027.00	5,572.31	5,567.09	124.95	20.19	-78.27	10,857.89	-3,802.90	4,679.60	4,609.87	69.73	67.111		
12,900.00	6,027.00	5,573.56	5,568.34	126.66	20.19	-78.30	10,858.01	-3,802.93	4,593.28	4,521.78	71.49	64.247		
13,000.00	6,027.00	5,574.87	5,569.64	128.38	20.20	-78.33	10,858.15	-3,802.98	4,507.51	4,434.17	73.35	61.454		
13,100.00	6,027.00	5,576.24	5,571.00	130.10	20.20	-78.36	10,858.29	-3,803.02	4,422.34	4,347.05	75.29	58.735		
13,200.00	6,027.00	5,577.67	5,572.43	131.82	20.21	-78.40	10,858.44	-3,803.06	4,337.81	4,260.47	77.33	56.092		
13,300.00	6,027.00	5,600.00	5,594.56	133.54	20.29	-78.93	10,861.30	-3,803.75	4,254.30	4,174.81	79.49	53.518		
13,400.00	6,027.00	5,600.00	5,594.56	135.26	20.29	-78.93	10,861.30	-3,803.75	4,171.08	4,089.35	81.73	51.034		
13,500.00	6,027.00	5,600.00	5,594.56	136.98	20.29	-78.93	10,861.30	-3,803.75	4,088.61	4,004.54	84.07	48.631		
13,600.00	6,027.00	5,600.00	5,594.56	138.71	20.29	-78.93	10,861.30	-3,803.75	4,006.94	3,920.42	86.52	46.310		
13,700.00	6,027.00	5,600.00	5,594.56	140.43	20.29	-78.93	10,861.30	-3,803.75	3,926.12	3,837.04	89.08	44.072		
13,800.00	6,027.00	5,600.00	5,594.56	142.16	20.29	-78.93	10,861.30	-3,803.75	3,846.20	3,754.44	91.76	41.916		
13,900.00	6,027.00	5,600.00	5,594.56	143.89	20.29	-78.93	10,861.30	-3,803.75	3,767.24	3,672.69	94.55	39.844		
14,000.00	6,027.00	5,600.00	5,594.56	145.62	20.29	-78.93	10,861.30	-3,803.75	3,689.30	3,591.84	97.46	37.854		
14,100.00	6,027.00	5,600.00	5,594.56	147.35	20.29	-78.93	10,861.30	-3,803.75	3,612.45	3,511.95	100.49	35.947		
14,200.00	6,027.00	5,600.00	5,594.56	149.08	20.29	-78.93	10,861.30	-3,803.75	3,536.75	3,433.10	103.65	34.122		
14,300.00	6,027.00	5,600.00	5,594.56	150.81	20.29	-78.93	10,861.30	-3,803.75	3,462.29	3,355.35	106.94	32.377		
14,400.00	6,027.00	5,600.00	5,594.56	152.54	20.29	-78.93	10,861.30	-3,803.75	3,389.14	3,278.79	110.35	30.713		
14,500.00	6,027.00	5,600.00	5,594.56	154.28	20.29	-78.93	10,861.30	-3,803.75	3,317.40	3,203.50	113.89	29.127		
14,600.00	6,027.00	5,600.00	5,594.56	156.01	20.29	-78.93	10,861.30	-3,803.75	3,247.15	3,129.58	117.57	27.620		
14,700.00	6,027.00	5,600.00	5,594.56	157.75	20.29	-78.93	10,861.30	-3,803.75	3,178.49	3,057.12	121.37	26.189		
14,800.00	6,027.00	5,600.00	5,594.56	159.49	20.29	-78.93	10,861.30	-3,803.75	3,111.53	2,986.23	125.30	24.833		
14,900.00	6,027.00	5,600.00	5,594.56	161.22	20.29	-78.93	10,861.30	-3,803.75	3,046.39	2,917.03	129.36	23.551		
15,000.00	6,027.00	5,623.28	5,617.50	162.96	20.38	-79.49	10,865.19	-3,804.46	2,982.78	2,849.22	133.56	22.333		
15,100.00	6,027.00	5,627.83	5,621.96	164.70	20.40	-79.60	10,866.06	-3,804.60	2,921.46	2,783.61	137.86	21.192		
15,200.00	6,027.00	5,650.00	5,643.61	166.44	20.49	-80.12	10,870.81	-3,805.27	2,862.50	2,720.24	142.26	20.122		
15,300.00	6,027.00	5,650.00	5,643.61	168.18	20.49	-80.12	10,870.81	-3,805.27	2,805.50	2,658.73	146.77	19.115		
15,400.00	6,027.00	5,650.00	5,643.61	169.93	20.49	-80.12	10,870.81	-3,805.27	2,750.96	2,599.60	151.36	18.175		
15,500.00	6,027.00	5,650.00	5,643.61	171.67	20.49	-80.12	10,870.81	-3,805.27	2,699.02	2,543.00	156.03	17.298		
15,600.00	6,027.00	5,650.00	5,643.61	173.41	20.49	-80.12	10,870.81	-3,805.27	2,649.84	2,489.10	160.74	16.485		
15,700.00	6,027.00	5,650.00	5,643.61	175.15	20.49	-80.12	10,870.81	-3,805.27	2,603.57	2,438.09	165.49	15.733		
15,800.00	6,027.00	5,674.49	5,667.28	176.90	20.58	-80.70	10,877.02	-3,805.99	2,560.03	2,389.78	170.26	15.036		
15,900.00	6,027.00	5,700.00	5,691.64	178.64	20.69	-81.30	10,884.55	-3,806.74	2,519.89	2,344.90	174.99	14.400		
16,000.00	6,027.00	5,700.00	5,691.64	180.39	20.69	-81.30	10,884.55	-3,806.74	2,482.75	2,303.04	179.71	13.815		
16,100.00	6,027.00	5,700.00	5,691.64	182.13	20.69	-81.30	10,884.55	-3,806.74	2,449.13	2,264.78	184.35	13.286		
16,200.00	6,027.00	5,722.96	5,713.25	183.88	20.78	-81.83	10,892.26	-3,807.39	2,418.93	2,230.06	188.88	12.807		
16,300.00	6,027.00	5,750.00	5,738.29	185.63	20.89	-82.44	10,902.44	-3,808.15	2,392.38	2,199.12	193.26	12.379		
16,400.00	6,027.00	5,750.00	5,738.29	187.38	20.89	-82.44	10,902.44	-3,808.15	2,369.41	2,171.90	197.51	11.996		
16,500.00	6,027.00	5,782.61	5,767.81	189.12	21.03	-83.17	10,916.27	-3,809.03	2,350.07	2,148.52	201.54	11.660		
16,600.00	6,027.00	5,810.18	5,792.12	190.87	21.15	-83.77	10,929.25	-3,809.76	2,334.40	2,129.03	205.36	11.367		
16,700.00	6,027.00	5,850.00	5,826.06	192.62	21.32	-84.61	10,950.04	-3,810.75	2,322.30	2,113.37	208.93	11.115		
16,795.97	6,027.00	5,882.10	5,852.31	194.30	21.47	-85.26	10,968.48	-3,811.52	2,313.87	2,101.72	212.15	10.907 CC, ES, SF		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-06 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,000.00	6,027.00	5,550.00	5,534.68	38.47	20.83	-73.98	10,855.29	-3,281.85	10,020.42	9,966.65	53.77	186.371		
7,100.00	6,027.00	5,550.00	5,534.68	39.21	20.83	-73.98	10,855.29	-3,281.85	9,922.14	9,868.56	53.58	185.188		
7,200.00	6,027.00	5,550.00	5,534.68	40.02	20.83	-73.98	10,855.29	-3,281.85	9,823.89	9,770.50	53.39	183.999		
7,300.00	6,027.00	5,550.00	5,534.68	40.89	20.83	-73.98	10,855.29	-3,281.85	9,725.68	9,672.48	53.20	182.804		
7,400.00	6,027.00	5,550.00	5,534.68	41.83	20.83	-73.98	10,855.29	-3,281.85	9,627.51	9,574.50	53.01	181.600		
7,500.00	6,027.00	5,550.00	5,534.68	42.83	20.83	-73.98	10,855.29	-3,281.85	9,529.38	9,476.55	52.83	180.389		
7,600.00	6,027.00	5,550.00	5,534.68	43.88	20.83	-73.98	10,855.29	-3,281.85	9,431.28	9,378.65	52.64	179.169		
7,700.00	6,027.00	5,550.00	5,534.68	44.99	20.83	-73.98	10,855.29	-3,281.85	9,333.23	9,280.78	52.45	177.940		
7,800.00	6,027.00	5,550.00	5,534.68	46.14	20.83	-73.98	10,855.29	-3,281.85	9,235.22	9,182.95	52.26	176.700		
7,900.00	6,027.00	5,550.00	5,534.68	47.33	20.83	-73.98	10,855.29	-3,281.85	9,137.25	9,085.17	52.08	175.450		
8,000.00	6,027.00	5,550.00	5,534.68	48.57	20.83	-73.98	10,855.29	-3,281.85	9,039.32	8,987.43	51.89	174.188		
8,100.00	6,027.00	5,550.00	5,534.68	49.84	20.83	-73.98	10,855.29	-3,281.85	8,941.44	8,889.73	51.71	172.913		
8,200.00	6,027.00	5,550.00	5,534.68	51.15	20.83	-73.98	10,855.29	-3,281.85	8,843.61	8,792.08	51.53	171.624		
8,300.00	6,027.00	5,550.00	5,534.68	52.48	20.83	-73.98	10,855.29	-3,281.85	8,745.83	8,694.48	51.35	170.321		
8,400.00	6,027.00	5,550.00	5,534.68	53.85	20.83	-73.98	10,855.29	-3,281.85	8,648.10	8,596.93	51.17	169.002		
8,500.00	6,027.00	5,550.00	5,534.68	55.24	20.83	-73.98	10,855.29	-3,281.85	8,550.42	8,499.42	51.00	167.665		
8,600.00	6,027.00	5,550.00	5,534.68	56.65	20.83	-73.98	10,855.29	-3,281.85	8,452.80	8,401.97	50.83	166.310		
8,700.00	6,027.00	5,550.00	5,534.68	58.08	20.83	-73.98	10,855.29	-3,281.85	8,355.23	8,304.57	50.66	164.935		
8,800.00	6,027.00	5,550.00	5,534.68	59.54	20.83	-73.98	10,855.29	-3,281.85	8,257.72	8,207.22	50.49	163.539		
8,900.00	6,027.00	5,550.00	5,534.68	61.01	20.83	-73.98	10,855.29	-3,281.85	8,160.27	8,109.93	50.33	162.119		
9,000.00	6,027.00	5,550.00	5,534.68	62.50	20.83	-73.98	10,855.29	-3,281.85	8,062.88	8,012.70	50.18	160.675		
9,100.00	6,027.00	5,550.00	5,534.68	64.01	20.83	-73.98	10,855.29	-3,281.85	7,965.55	7,915.52	50.03	159.204		
9,200.00	6,027.00	5,550.00	5,534.68	65.53	20.83	-73.98	10,855.29	-3,281.85	7,868.30	7,818.41	49.89	157.704		
9,300.00	6,027.00	5,550.00	5,534.68	67.06	20.83	-73.98	10,855.29	-3,281.85	7,771.11	7,721.35	49.76	156.174		
9,400.00	6,027.00	5,573.30	5,557.88	68.61	20.92	-74.66	10,856.70	-3,280.25	7,673.50	7,623.79	49.71	154.351		
9,500.00	6,027.00	5,573.88	5,558.46	70.17	20.93	-74.68	10,856.75	-3,280.21	7,576.44	7,526.84	49.60	152.751		
9,600.00	6,027.00	5,574.48	5,559.06	71.73	20.93	-74.70	10,856.80	-3,280.17	7,479.45	7,429.95	49.50	151.115		
9,700.00	6,027.00	5,575.10	5,559.67	73.31	20.93	-74.71	10,856.85	-3,280.13	7,382.54	7,333.14	49.40	149.439		
9,800.00	6,027.00	5,575.73	5,560.29	74.90	20.93	-74.73	10,856.90	-3,280.08	7,285.72	7,236.40	49.32	147.722		
9,900.00	6,027.00	5,576.38	5,560.94	76.50	20.94	-74.75	10,856.96	-3,280.04	7,188.98	7,139.72	49.25	145.961		
10,000.00	6,027.00	5,600.00	5,584.37	78.10	21.03	-75.45	10,859.49	-3,278.42	7,092.81	7,043.54	49.27	143.953		
10,100.00	6,027.00	5,600.00	5,584.37	79.71	21.03	-75.45	10,859.49	-3,278.42	6,996.23	6,946.99	49.23	142.108		
10,200.00	6,027.00	5,600.00	5,584.37	81.33	21.03	-75.45	10,859.49	-3,278.42	6,899.74	6,850.53	49.21	140.212		
10,300.00	6,027.00	5,600.00	5,584.37	82.96	21.03	-75.45	10,859.49	-3,278.42	6,803.35	6,754.15	49.21	138.263		
10,400.00	6,027.00	5,600.00	5,584.37	84.59	21.03	-75.45	10,859.49	-3,278.42	6,707.07	6,657.85	49.22	136.257		
10,500.00	6,027.00	5,600.00	5,584.37	86.23	21.03	-75.45	10,859.49	-3,278.42	6,610.91	6,561.64	49.26	134.193		
10,600.00	6,027.00	5,600.00	5,584.37	87.87	21.03	-75.45	10,859.49	-3,278.42	6,514.85	6,465.52	49.33	132.068		
10,700.00	6,027.00	5,600.00	5,584.37	89.52	21.03	-75.45	10,859.49	-3,278.42	6,418.92	6,369.50	49.42	129.882		
10,800.00	6,027.00	5,600.00	5,584.37	91.17	21.03	-75.45	10,859.49	-3,278.42	6,323.11	6,273.57	49.54	127.632		
10,900.00	6,027.00	5,600.00	5,584.37	92.83	21.03	-75.45	10,859.49	-3,278.42	6,227.44	6,177.74	49.69	125.318		
11,000.00	6,027.00	5,600.00	5,584.37	94.49	21.03	-75.45	10,859.49	-3,278.42	6,131.90	6,082.02	49.88	122.940		
11,100.00	6,027.00	5,600.00	5,584.37	96.16	21.03	-75.45	10,859.49	-3,278.42	6,036.51	5,986.41	50.10	120.496		
11,200.00	6,027.00	5,600.00	5,584.37	97.83	21.03	-75.45	10,859.49	-3,278.42	5,941.26	5,890.91	50.35	117.989		
11,300.00	6,027.00	5,600.00	5,584.37	99.50	21.03	-75.45	10,859.49	-3,278.42	5,846.18	5,795.53	50.65	115.418		
11,400.00	6,027.00	5,600.00	5,584.37	101.18	21.03	-75.45	10,859.49	-3,278.42	5,751.27	5,700.27	50.99	112.785		
11,500.00	6,027.00	5,600.00	5,584.37	102.86	21.03	-75.45	10,859.49	-3,278.42	5,656.53	5,605.15	51.38	110.094		
11,600.00	6,027.00	5,600.00	5,584.37	104.54	21.03	-75.45	10,859.49	-3,278.42	5,561.97	5,510.16	51.81	107.347		
11,700.00	6,027.00	5,600.00	5,584.37	106.23	21.03	-75.45	10,859.49	-3,278.42	5,467.61	5,415.31	52.30	104.548		
11,800.00	6,027.00	5,600.00	5,584.37	107.92	21.03	-75.45	10,859.49	-3,278.42	5,373.45	5,320.61	52.84	101.701		
11,900.00	6,027.00	5,600.00	5,584.37	109.61	21.03	-75.45	10,859.49	-3,278.42	5,279.50	5,226.07	53.43	98.812		
12,000.00	6,027.00	5,600.00	5,584.37	111.31	21.03	-75.45	10,859.49	-3,278.42	5,185.79	5,131.70	54.08	95.885		
12,100.00	6,027.00	5,600.00	5,584.37	113.00	21.03	-75.45	10,859.49	-3,278.42	5,092.31	5,037.51	54.80	92.928		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-06 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,200.00	6,027.00	5,600.00	5,584.37	114.71	21.03	-75.45	10,859.49	-3,278.42	4,999.08	4,943.51	55.58	89.947		
12,300.00	6,027.00	5,600.00	5,584.37	116.41	21.03	-75.45	10,859.49	-3,278.42	4,906.12	4,849.70	56.43	86.949		
12,400.00	6,027.00	5,600.00	5,584.37	118.11	21.03	-75.45	10,859.49	-3,278.42	4,813.45	4,756.10	57.34	83.940		
12,500.00	6,027.00	5,600.00	5,584.37	119.82	21.03	-75.45	10,859.49	-3,278.42	4,721.07	4,662.73	58.34	80.930		
12,600.00	6,027.00	5,600.00	5,584.37	121.53	21.03	-75.45	10,859.49	-3,278.42	4,629.01	4,569.60	59.40	77.924		
12,700.00	6,027.00	5,600.00	5,584.37	123.24	21.03	-75.45	10,859.49	-3,278.42	4,537.28	4,476.73	60.55	74.930		
12,800.00	6,027.00	5,600.00	5,584.37	124.95	21.03	-75.45	10,859.49	-3,278.42	4,445.92	4,384.13	61.79	71.957		
12,900.00	6,027.00	5,600.00	5,584.37	126.66	21.03	-75.45	10,859.49	-3,278.42	4,354.93	4,291.82	63.11	69.010		
13,000.00	6,027.00	5,600.00	5,584.37	128.38	21.03	-75.45	10,859.49	-3,278.42	4,264.34	4,199.83	64.52	66.097		
13,100.00	6,027.00	5,600.00	5,584.37	130.10	21.03	-75.45	10,859.49	-3,278.42	4,174.19	4,108.16	66.02	63.224		
13,200.00	6,027.00	5,600.00	5,584.37	131.82	21.03	-75.45	10,859.49	-3,278.42	4,084.49	4,016.86	67.63	60.399		
13,300.00	6,027.00	5,600.00	5,584.37	133.54	21.03	-75.45	10,859.49	-3,278.42	3,995.28	3,925.95	69.33	57.625		
13,400.00	6,027.00	5,600.00	5,584.37	135.26	21.03	-75.45	10,859.49	-3,278.42	3,906.60	3,835.45	71.15	54.909		
13,500.00	6,027.00	5,600.00	5,584.37	136.98	21.03	-75.45	10,859.49	-3,278.42	3,818.47	3,745.40	73.07	52.256		
13,600.00	6,027.00	5,623.75	5,607.80	138.71	21.12	-76.15	10,863.00	-3,276.79	3,730.43	3,655.36	75.07	49.690		
13,700.00	6,027.00	5,626.31	5,610.32	140.43	21.13	-76.23	10,863.44	-3,276.62	3,643.43	3,566.20	77.23	47.176		
13,800.00	6,027.00	5,650.00	5,633.50	142.16	21.23	-76.93	10,868.01	-3,275.00	3,557.50	3,478.05	79.46	44.774		
13,900.00	6,027.00	5,650.00	5,633.50	143.89	21.23	-76.93	10,868.01	-3,275.00	3,471.79	3,389.92	81.87	42.404		
14,000.00	6,027.00	5,650.00	5,633.50	145.62	21.23	-76.93	10,868.01	-3,275.00	3,386.86	3,302.43	84.43	40.113		
14,100.00	6,027.00	5,650.00	5,633.50	147.35	21.23	-76.93	10,868.01	-3,275.00	3,302.78	3,215.64	87.14	37.902		
14,200.00	6,027.00	5,650.00	5,633.50	149.08	21.23	-76.93	10,868.01	-3,275.00	3,219.61	3,129.61	90.00	35.775		
14,300.00	6,027.00	5,650.00	5,633.50	150.81	21.23	-76.93	10,868.01	-3,275.00	3,137.42	3,044.41	93.01	33.731		
14,400.00	6,027.00	5,650.00	5,633.50	152.54	21.23	-76.93	10,868.01	-3,275.00	3,056.29	2,960.10	96.19	31.772		
14,500.00	6,027.00	5,650.00	5,633.50	154.28	21.23	-76.93	10,868.01	-3,275.00	2,976.31	2,876.76	99.55	29.898		
14,600.00	6,027.00	5,650.00	5,633.50	156.01	21.23	-76.93	10,868.01	-3,275.00	2,897.58	2,794.50	103.08	28.111		
14,700.00	6,027.00	5,650.00	5,633.50	157.75	21.23	-76.93	10,868.01	-3,275.00	2,820.19	2,713.40	106.79	26.409		
14,800.00	6,027.00	5,650.00	5,633.50	159.49	21.23	-76.93	10,868.01	-3,275.00	2,744.26	2,633.57	110.69	24.792		
14,900.00	6,027.00	5,672.08	5,654.92	161.22	21.32	-77.58	10,873.14	-3,273.51	2,669.51	2,554.83	114.69	23.277		
15,000.00	6,027.00	5,677.82	5,660.46	162.96	21.34	-77.75	10,874.61	-3,273.12	2,596.66	2,477.71	118.94	21.831		
15,100.00	6,027.00	5,700.00	5,681.71	164.70	21.43	-78.40	10,880.80	-3,271.64	2,525.82	2,402.52	123.30	20.486		
15,200.00	6,027.00	5,700.00	5,681.71	166.44	21.43	-78.40	10,880.80	-3,271.64	2,456.56	2,328.58	127.98	19.195		
15,300.00	6,027.00	5,700.00	5,681.71	168.18	21.43	-78.40	10,880.80	-3,271.64	2,389.49	2,256.63	132.86	17.985		
15,400.00	6,027.00	5,700.00	5,681.71	169.93	21.43	-78.40	10,880.80	-3,271.64	2,324.79	2,186.86	137.93	16.855		
15,500.00	6,027.00	5,700.00	5,681.71	171.67	21.43	-78.40	10,880.80	-3,271.64	2,262.65	2,119.49	143.16	15.805		
15,600.00	6,027.00	5,724.30	5,704.69	173.41	21.53	-79.11	10,888.52	-3,270.03	2,202.85	2,054.45	148.41	14.843		
15,700.00	6,027.00	5,750.00	5,728.61	175.15	21.64	-79.85	10,897.75	-3,268.35	2,146.24	1,992.50	153.75	13.960		
15,800.00	6,027.00	5,750.00	5,728.61	176.90	21.64	-79.85	10,897.75	-3,268.35	2,092.35	1,932.93	159.42	13.125		
15,900.00	6,027.00	5,750.00	5,728.61	178.64	21.64	-79.85	10,897.75	-3,268.35	2,041.93	1,876.77	165.16	12.363		
16,000.00	6,027.00	5,774.05	5,750.61	180.39	21.74	-80.54	10,907.34	-3,266.80	1,994.87	1,824.10	170.76	11.682		
16,100.00	6,027.00	5,800.00	5,773.87	182.13	21.85	-81.27	10,918.73	-3,265.16	1,951.59	1,775.27	176.32	11.068		
16,200.00	6,027.00	5,800.00	5,773.87	183.88	21.85	-81.27	10,918.73	-3,265.16	1,912.08	1,730.01	182.07	10.502		
16,300.00	6,027.00	5,829.77	5,799.89	185.63	21.98	-82.10	10,933.07	-3,263.32	1,876.55	1,689.10	187.45	10.011		
16,400.00	6,027.00	5,850.00	5,817.13	187.38	22.07	-82.65	10,943.58	-3,262.09	1,845.20	1,652.46	192.74	9.573		
16,500.00	6,027.00	5,881.27	5,843.02	189.12	22.21	-83.48	10,961.02	-3,260.25	1,818.04	1,620.31	197.72	9.195		
16,600.00	6,027.00	5,913.11	5,868.36	190.87	22.35	-84.29	10,980.19	-3,258.44	1,795.08	1,592.65	202.43	8.868		
16,700.00	6,027.00	5,950.00	5,896.35	192.62	22.53	-85.20	11,004.13	-3,256.43	1,776.26	1,569.47	206.79	8.590		
16,795.97	6,027.00	6,000.00	5,931.71	194.30	22.78	-86.35	11,039.37	-3,253.87	1,761.95	1,551.42	210.52	8.369 CC, ES, SF		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,900.00	6,027.00	5,650.00	5,572.99	37.80	25.40	-69.30	10,856.89	-2,755.72	10,039.67	9,980.54	59.14	169.770		
7,000.00	6,027.00	5,650.00	5,572.99	38.47	25.40	-69.30	10,856.89	-2,755.72	9,940.56	9,881.56	59.00	168.478		
7,100.00	6,027.00	5,650.00	5,572.99	39.21	25.40	-69.30	10,856.89	-2,755.72	9,841.47	9,782.60	58.87	167.182		
7,200.00	6,027.00	5,650.00	5,572.99	40.02	25.40	-69.30	10,856.89	-2,755.72	9,742.40	9,683.67	58.73	165.884		
7,300.00	6,027.00	5,650.00	5,572.99	40.89	25.40	-69.30	10,856.89	-2,755.72	9,643.34	9,584.75	58.59	164.582		
7,400.00	6,027.00	5,650.00	5,572.99	41.83	25.40	-69.30	10,856.89	-2,755.72	9,544.31	9,485.85	58.45	163.276		
7,500.00	6,027.00	5,650.00	5,572.99	42.83	25.40	-69.30	10,856.89	-2,755.72	9,445.30	9,386.98	58.32	161.967		
7,600.00	6,027.00	5,650.00	5,572.99	43.88	25.40	-69.30	10,856.89	-2,755.72	9,346.30	9,288.13	58.18	160.655		
7,700.00	6,027.00	5,650.00	5,572.99	44.99	25.40	-69.30	10,856.89	-2,755.72	9,247.33	9,189.30	58.04	159.338		
7,800.00	6,027.00	5,650.00	5,572.99	46.14	25.40	-69.30	10,856.89	-2,755.72	9,148.38	9,090.49	57.89	158.017		
7,900.00	6,027.00	5,650.00	5,572.99	47.33	25.40	-69.30	10,856.89	-2,755.72	9,049.46	8,991.70	57.75	156.691		
8,000.00	6,027.00	5,650.00	5,572.99	48.57	25.40	-69.30	10,856.89	-2,755.72	8,950.55	8,892.94	57.61	155.361		
8,100.00	6,027.00	5,650.00	5,572.99	49.84	25.40	-69.30	10,856.89	-2,755.72	8,851.68	8,794.21	57.47	154.027		
8,200.00	6,027.00	5,650.00	5,572.99	51.15	25.40	-69.30	10,856.89	-2,755.72	8,752.82	8,695.50	57.33	152.687		
8,300.00	6,027.00	5,650.00	5,572.99	52.48	25.40	-69.30	10,856.89	-2,755.72	8,654.00	8,596.82	57.18	151.341		
8,400.00	6,027.00	5,650.00	5,572.99	53.85	25.40	-69.30	10,856.89	-2,755.72	8,555.20	8,498.16	57.04	149.990		
8,500.00	6,027.00	5,650.00	5,572.99	55.24	25.40	-69.30	10,856.89	-2,755.72	8,456.43	8,399.54	56.90	148.632		
8,600.00	6,027.00	5,650.00	5,572.99	56.65	25.40	-69.30	10,856.89	-2,755.72	8,357.69	8,300.94	56.75	147.268		
8,700.00	6,027.00	5,650.00	5,572.99	58.08	25.40	-69.30	10,856.89	-2,755.72	8,258.98	8,202.37	56.61	145.897		
8,800.00	6,027.00	5,650.00	5,572.99	59.54	25.40	-69.30	10,856.89	-2,755.72	8,160.30	8,103.84	56.47	144.519		
8,900.00	6,027.00	5,650.00	5,572.99	61.01	25.40	-69.30	10,856.89	-2,755.72	8,061.65	8,005.33	56.32	143.133		
9,000.00	6,027.00	5,650.00	5,572.99	62.50	25.40	-69.30	10,856.89	-2,755.72	7,963.04	7,906.86	56.18	141.738		
9,100.00	6,027.00	5,650.00	5,572.99	64.01	25.40	-69.30	10,856.89	-2,755.72	7,864.46	7,808.42	56.04	140.335		
9,200.00	6,027.00	5,650.00	5,572.99	65.53	25.40	-69.30	10,856.89	-2,755.72	7,765.92	7,710.02	55.90	138.922		
9,300.00	6,027.00	5,650.00	5,572.99	67.06	25.40	-69.30	10,856.89	-2,755.72	7,667.42	7,611.66	55.76	137.499		
9,400.00	6,027.00	5,650.00	5,572.99	68.61	25.40	-69.30	10,856.89	-2,755.72	7,568.96	7,513.33	55.63	136.065		
9,500.00	6,027.00	5,650.00	5,572.99	70.17	25.40	-69.30	10,856.89	-2,755.72	7,470.53	7,415.04	55.49	134.620		
9,600.00	6,027.00	5,650.00	5,572.99	71.73	25.40	-69.30	10,856.89	-2,755.72	7,372.15	7,316.79	55.36	133.162		
9,700.00	6,027.00	5,650.00	5,572.99	73.31	25.40	-69.30	10,856.89	-2,755.72	7,273.81	7,218.58	55.23	131.691		
9,800.00	6,027.00	5,650.00	5,572.99	74.90	25.40	-69.30	10,856.89	-2,755.72	7,175.52	7,120.41	55.11	130.206		
9,900.00	6,027.00	5,650.00	5,572.99	76.50	25.40	-69.30	10,856.89	-2,755.72	7,077.28	7,022.29	54.99	128.705		
10,000.00	6,027.00	5,650.00	5,572.99	78.10	25.40	-69.30	10,856.89	-2,755.72	6,979.09	6,924.22	54.87	127.189		
10,100.00	6,027.00	5,650.00	5,572.99	79.71	25.40	-69.30	10,856.89	-2,755.72	6,880.95	6,826.19	54.76	125.655		
10,200.00	6,027.00	5,650.00	5,572.99	81.33	25.40	-69.30	10,856.89	-2,755.72	6,782.86	6,728.20	54.65	124.103		
10,300.00	6,027.00	5,650.00	5,572.99	82.96	25.40	-69.30	10,856.89	-2,755.72	6,684.83	6,630.27	54.56	122.532		
10,400.00	6,027.00	5,650.00	5,572.99	84.59	25.40	-69.30	10,856.89	-2,755.72	6,586.86	6,532.39	54.46	120.939		
10,500.00	6,027.00	5,650.00	5,572.99	86.23	25.40	-69.30	10,856.89	-2,755.72	6,488.95	6,434.57	54.38	119.325		
10,600.00	6,027.00	5,650.00	5,572.99	87.87	25.40	-69.30	10,856.89	-2,755.72	6,391.11	6,336.80	54.31	117.686		
10,700.00	6,027.00	5,650.00	5,572.99	89.52	25.40	-69.30	10,856.89	-2,755.72	6,293.33	6,239.09	54.24	116.022		
10,800.00	6,027.00	5,650.00	5,572.99	91.17	25.40	-69.30	10,856.89	-2,755.72	6,195.62	6,141.43	54.19	114.332		
10,900.00	6,027.00	5,650.00	5,572.99	92.83	25.40	-69.30	10,856.89	-2,755.72	6,097.99	6,043.84	54.15	112.613		
11,000.00	6,027.00	5,650.00	5,572.99	94.49	25.40	-69.30	10,856.89	-2,755.72	6,000.44	5,946.32	54.12	110.864		
11,100.00	6,027.00	5,650.00	5,572.99	96.16	25.40	-69.30	10,856.89	-2,755.72	5,902.97	5,848.85	54.11	109.084		
11,200.00	6,027.00	5,650.00	5,572.99	97.83	25.40	-69.30	10,856.89	-2,755.72	5,805.58	5,751.46	54.12	107.271		
11,300.00	6,027.00	5,650.00	5,572.99	99.50	25.40	-69.30	10,856.89	-2,755.72	5,708.29	5,654.14	54.15	105.422		
11,400.00	6,027.00	5,650.00	5,572.99	101.18	25.40	-69.30	10,856.89	-2,755.72	5,611.09	5,556.90	54.19	103.538		
11,500.00	6,027.00	5,650.00	5,572.99	102.86	25.40	-69.30	10,856.89	-2,755.72	5,513.99	5,459.73	54.26	101.615		
11,600.00	6,027.00	5,650.00	5,572.99	104.54	25.40	-69.30	10,856.89	-2,755.72	5,417.00	5,362.64	54.36	99.653		
11,700.00	6,027.00	5,650.00	5,572.99	106.23	25.40	-69.30	10,856.89	-2,755.72	5,320.11	5,265.63	54.48	97.651		
11,800.00	6,027.00	5,650.00	5,572.99	107.92	25.40	-69.30	10,856.89	-2,755.72	5,223.35	5,168.72	54.63	95.607		
11,900.00	6,027.00	5,650.00	5,572.99	109.61	25.40	-69.30	10,856.89	-2,755.72	5,126.71	5,071.89	54.82	93.520		
12,000.00	6,027.00	5,650.00	5,572.99	111.31	25.40	-69.30	10,856.89	-2,755.72	5,030.20	4,975.16	55.04	91.391		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,100.00	6,027.00	5,672.42	5,594.94	113.00	25.51	-70.14	10,859.50	-2,751.99	4,933.35	4,878.01	55.34	89.144		
12,200.00	6,027.00	5,673.89	5,596.37	114.71	25.52	-70.19	10,859.70	-2,751.75	4,837.06	4,781.42	55.64	86.936		
12,300.00	6,027.00	5,675.42	5,597.87	116.41	25.52	-70.25	10,859.91	-2,751.49	4,740.92	4,684.94	55.98	84.687		
12,400.00	6,027.00	5,677.01	5,599.42	118.11	25.53	-70.31	10,860.14	-2,751.23	4,644.94	4,588.57	56.37	82.398		
12,500.00	6,027.00	5,700.00	5,621.78	119.82	25.64	-71.18	10,863.89	-2,747.43	4,549.56	4,492.74	56.83	80.060		
12,600.00	6,027.00	5,700.00	5,621.78	121.53	25.64	-71.18	10,863.89	-2,747.43	4,453.86	4,396.55	57.32	77.706		
12,700.00	6,027.00	5,700.00	5,621.78	123.24	25.64	-71.18	10,863.89	-2,747.43	4,358.36	4,300.49	57.87	75.317		
12,800.00	6,027.00	5,700.00	5,621.78	124.95	25.64	-71.18	10,863.89	-2,747.43	4,263.05	4,204.57	58.48	72.895		
12,900.00	6,027.00	5,700.00	5,621.78	126.66	25.64	-71.18	10,863.89	-2,747.43	4,167.97	4,108.81	59.17	70.445		
13,000.00	6,027.00	5,700.00	5,621.78	128.38	25.64	-71.18	10,863.89	-2,747.43	4,073.13	4,013.20	59.93	67.970		
13,100.00	6,027.00	5,700.00	5,621.78	130.10	25.64	-71.18	10,863.89	-2,747.43	3,978.53	3,917.77	60.76	65.475		
13,200.00	6,027.00	5,700.00	5,621.78	131.82	25.64	-71.18	10,863.89	-2,747.43	3,884.21	3,822.52	61.69	62.966		
13,300.00	6,027.00	5,700.00	5,621.78	133.54	25.64	-71.18	10,863.89	-2,747.43	3,790.18	3,727.48	62.70	60.448		
13,400.00	6,027.00	5,700.00	5,621.78	135.26	25.64	-71.18	10,863.89	-2,747.43	3,696.46	3,632.65	63.81	57.927		
13,500.00	6,027.00	5,700.00	5,621.78	136.98	25.64	-71.18	10,863.89	-2,747.43	3,603.08	3,538.05	65.03	55.410		
13,600.00	6,027.00	5,700.00	5,621.78	138.71	25.64	-71.18	10,863.89	-2,747.43	3,510.06	3,443.71	66.35	52.904		
13,700.00	6,027.00	5,700.00	5,621.78	140.43	25.64	-71.18	10,863.89	-2,747.43	3,417.44	3,349.65	67.79	50.414		
13,800.00	6,027.00	5,700.00	5,621.78	142.16	25.64	-71.18	10,863.89	-2,747.43	3,325.25	3,255.90	69.35	47.949		
13,900.00	6,027.00	5,700.00	5,621.78	143.89	25.64	-71.18	10,863.89	-2,747.43	3,233.52	3,162.47	71.05	45.513		
14,000.00	6,027.00	5,700.00	5,621.78	145.62	25.64	-71.18	10,863.89	-2,747.43	3,142.29	3,069.41	72.88	43.115		
14,100.00	6,027.00	5,700.00	5,621.78	147.35	25.64	-71.18	10,863.89	-2,747.43	3,051.62	2,976.75	74.87	40.761		
14,200.00	6,027.00	5,721.87	5,642.90	149.08	25.74	-72.01	10,868.30	-2,743.83	2,961.08	2,884.21	76.87	38.522		
14,300.00	6,027.00	5,725.82	5,646.68	150.81	25.76	-72.16	10,869.18	-2,743.19	2,871.47	2,792.33	79.14	36.282		
14,400.00	6,027.00	5,750.00	5,669.78	152.54	25.88	-73.09	10,875.17	-2,739.25	2,782.94	2,701.51	81.43	34.177		
14,500.00	6,027.00	5,750.00	5,669.78	154.28	25.88	-73.09	10,875.17	-2,739.25	2,694.60	2,610.50	84.10	32.042		
14,600.00	6,027.00	5,750.00	5,669.78	156.01	25.88	-73.09	10,875.17	-2,739.25	2,607.10	2,520.13	86.97	29.977		
14,700.00	6,027.00	5,750.00	5,669.78	157.75	25.88	-73.09	10,875.17	-2,739.25	2,520.53	2,430.46	90.07	27.985		
14,800.00	6,027.00	5,750.00	5,669.78	159.49	25.88	-73.09	10,875.17	-2,739.25	2,434.99	2,341.59	93.40	26.070		
14,900.00	6,027.00	5,750.00	5,669.78	161.22	25.88	-73.09	10,875.17	-2,739.25	2,350.59	2,253.60	96.99	24.236		
15,000.00	6,027.00	5,750.00	5,669.78	162.96	25.88	-73.09	10,875.17	-2,739.25	2,267.46	2,166.62	100.84	22.486		
15,100.00	6,027.00	5,750.00	5,669.78	164.70	25.88	-73.09	10,875.17	-2,739.25	2,185.75	2,080.77	104.98	20.821		
15,200.00	6,027.00	5,776.05	5,694.36	166.44	26.00	-74.09	10,882.72	-2,735.06	2,104.96	1,995.87	109.09	19.296		
15,300.00	6,027.00	5,800.00	5,716.63	168.18	26.12	-75.02	10,890.65	-2,731.26	2,026.37	1,912.89	113.48	17.856		
15,400.00	6,027.00	5,800.00	5,716.63	169.93	26.12	-75.02	10,890.65	-2,731.26	1,949.15	1,830.60	118.55	16.441		
15,500.00	6,027.00	5,800.00	5,716.63	171.67	26.12	-75.02	10,890.65	-2,731.26	1,874.09	1,750.12	123.97	15.118		
15,600.00	6,027.00	5,800.00	5,716.63	173.41	26.12	-75.02	10,890.65	-2,731.26	1,801.45	1,671.72	129.73	13.886		
15,700.00	6,027.00	5,823.95	5,738.56	175.15	26.23	-75.94	10,899.52	-2,727.51	1,731.00	1,595.56	135.45	12.780		
15,800.00	6,027.00	5,850.00	5,761.97	176.90	26.36	-76.94	10,910.21	-2,723.50	1,663.64	1,522.21	141.42	11.764		
15,900.00	6,027.00	5,850.00	5,761.97	178.64	26.36	-76.94	10,910.21	-2,723.50	1,598.99	1,450.78	148.21	10.788		
16,000.00	6,027.00	5,866.05	5,776.14	180.39	26.44	-77.56	10,917.33	-2,721.07	1,537.91	1,382.92	154.99	9.923		
16,100.00	6,027.00	5,883.43	5,791.26	182.13	26.52	-78.22	10,925.50	-2,718.48	1,480.56	1,318.58	161.98	9.141		
16,200.00	6,027.00	5,900.00	5,805.45	183.88	26.60	-78.84	10,933.71	-2,716.05	1,427.29	1,258.14	169.15	8.438		
16,300.00	6,027.00	5,924.99	5,826.39	185.63	26.72	-79.77	10,946.88	-2,712.45	1,378.45	1,202.20	176.24	7.821		
16,400.00	6,027.00	5,950.00	5,846.75	187.38	26.84	-80.69	10,960.96	-2,708.95	1,334.36	1,151.05	183.31	7.279		
16,500.00	6,027.00	5,978.46	5,869.16	189.12	26.97	-81.71	10,978.08	-2,705.10	1,295.31	1,105.13	190.18	6.811		
16,600.00	6,027.00	6,000.00	5,885.54	190.87	27.08	-82.47	10,991.77	-2,702.27	1,261.57	1,064.63	196.94	6.406		
16,700.00	6,027.00	6,050.00	5,921.54	192.62	27.32	-84.14	11,025.88	-2,696.05	1,232.96	1,030.28	202.68	6.083		
16,795.97	6,027.00	6,089.30	5,947.69	194.30	27.51	-85.38	11,054.85	-2,691.51	1,210.53	1,002.57	207.96	5.821	CC, ES, SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,900.00	6,027.00	5,750.00	5,560.16	37.80	32.46	-56.43	10,854.42	-2,239.17	9,986.85	9,920.11	66.75	149.626		
7,000.00	6,027.00	5,750.00	5,560.16	38.47	32.46	-56.43	10,854.42	-2,239.17	9,887.24	9,820.57	66.67	148.307		
7,100.00	6,027.00	5,750.00	5,560.16	39.21	32.46	-56.43	10,854.42	-2,239.17	9,787.64	9,721.05	66.59	146.986		
7,200.00	6,027.00	5,750.00	5,560.16	40.02	32.46	-56.43	10,854.42	-2,239.17	9,688.04	9,621.53	66.51	145.664		
7,300.00	6,027.00	5,750.00	5,560.16	40.89	32.46	-56.43	10,854.42	-2,239.17	9,588.45	9,522.02	66.43	144.340		
7,400.00	6,027.00	5,750.00	5,560.16	41.83	32.46	-56.43	10,854.42	-2,239.17	9,488.87	9,422.52	66.35	143.015		
7,500.00	6,027.00	5,750.00	5,560.16	42.83	32.46	-56.43	10,854.42	-2,239.17	9,389.30	9,323.03	66.27	141.688		
7,600.00	6,027.00	5,750.00	5,560.16	43.88	32.46	-56.43	10,854.42	-2,239.17	9,289.74	9,223.55	66.19	140.359		
7,700.00	6,027.00	5,750.00	5,560.16	44.99	32.46	-56.43	10,854.42	-2,239.17	9,190.18	9,124.08	66.10	139.029		
7,800.00	6,027.00	5,750.00	5,560.16	46.14	32.46	-56.43	10,854.42	-2,239.17	9,090.64	9,024.62	66.02	137.697		
7,900.00	6,027.00	5,750.00	5,560.16	47.33	32.46	-56.43	10,854.42	-2,239.17	8,991.11	8,925.17	65.93	136.364		
8,000.00	6,027.00	5,750.00	5,560.16	48.57	32.46	-56.43	10,854.42	-2,239.17	8,891.59	8,825.74	65.85	135.028		
8,100.00	6,027.00	5,750.00	5,560.16	49.84	32.46	-56.43	10,854.42	-2,239.17	8,792.08	8,726.31	65.76	133.691		
8,200.00	6,027.00	5,750.00	5,560.16	51.15	32.46	-56.43	10,854.42	-2,239.17	8,692.58	8,626.90	65.68	132.353		
8,300.00	6,027.00	5,750.00	5,560.16	52.48	32.46	-56.43	10,854.42	-2,239.17	8,593.09	8,527.50	65.59	131.012		
8,400.00	6,027.00	5,750.00	5,560.16	53.85	32.46	-56.43	10,854.42	-2,239.17	8,493.61	8,428.11	65.50	129.670		
8,500.00	6,027.00	5,750.00	5,560.16	55.24	32.46	-56.43	10,854.42	-2,239.17	8,394.15	8,328.73	65.41	128.326		
8,600.00	6,027.00	5,750.00	5,560.16	56.65	32.46	-56.43	10,854.42	-2,239.17	8,294.70	8,229.37	65.32	126.980		
8,700.00	6,027.00	5,750.00	5,560.16	58.08	32.46	-56.43	10,854.42	-2,239.17	8,195.26	8,130.03	65.23	125.632		
8,800.00	6,027.00	5,750.00	5,560.16	59.54	32.46	-56.43	10,854.42	-2,239.17	8,095.84	8,030.69	65.14	124.282		
8,900.00	6,027.00	5,750.00	5,560.16	61.01	32.46	-56.43	10,854.42	-2,239.17	7,996.43	7,931.38	65.05	122.930		
9,000.00	6,027.00	5,750.00	5,560.16	62.50	32.46	-56.43	10,854.42	-2,239.17	7,897.03	7,832.08	64.96	121.575		
9,100.00	6,027.00	5,750.00	5,560.16	64.01	32.46	-56.43	10,854.42	-2,239.17	7,797.65	7,732.79	64.86	120.219		
9,200.00	6,027.00	5,750.00	5,560.16	65.53	32.46	-56.43	10,854.42	-2,239.17	7,698.29	7,633.52	64.77	118.860		
9,300.00	6,027.00	5,750.00	5,560.16	67.06	32.46	-56.43	10,854.42	-2,239.17	7,598.94	7,534.27	64.67	117.499		
9,400.00	6,027.00	5,750.00	5,560.16	68.61	32.46	-56.43	10,854.42	-2,239.17	7,499.62	7,435.04	64.58	116.135		
9,500.00	6,027.00	5,750.00	5,560.16	70.17	32.46	-56.43	10,854.42	-2,239.17	7,400.30	7,335.82	64.48	114.769		
9,600.00	6,027.00	5,750.00	5,560.16	71.73	32.46	-56.43	10,854.42	-2,239.17	7,301.01	7,236.63	64.38	113.400		
9,700.00	6,027.00	5,750.00	5,560.16	73.31	32.46	-56.43	10,854.42	-2,239.17	7,201.74	7,137.46	64.29	112.028		
9,800.00	6,027.00	5,750.00	5,560.16	74.90	32.46	-56.43	10,854.42	-2,239.17	7,102.49	7,038.30	64.19	110.653		
9,900.00	6,027.00	5,750.00	5,560.16	76.50	32.46	-56.43	10,854.42	-2,239.17	7,003.26	6,939.17	64.09	109.275		
10,000.00	6,027.00	5,773.18	5,582.44	78.10	32.60	-57.45	10,856.09	-2,233.00	6,903.54	6,839.39	64.15	107.612		
10,100.00	6,027.00	5,773.90	5,583.13	79.71	32.60	-57.48	10,856.16	-2,232.81	6,804.33	6,740.27	64.06	106.222		
10,200.00	6,027.00	5,774.64	5,583.84	81.33	32.61	-57.51	10,856.23	-2,232.61	6,705.13	6,641.17	63.96	104.827		
10,300.00	6,027.00	5,775.41	5,584.57	82.96	32.61	-57.55	10,856.31	-2,232.41	6,605.96	6,542.09	63.87	103.429		
10,400.00	6,027.00	5,776.19	5,585.32	84.59	32.62	-57.58	10,856.38	-2,232.20	6,506.81	6,443.04	63.78	102.027		
10,500.00	6,027.00	5,776.99	5,586.10	86.23	32.62	-57.62	10,856.46	-2,231.99	6,407.69	6,344.01	63.68	100.621		
10,600.00	6,027.00	5,800.00	5,608.11	87.87	32.76	-58.67	10,859.20	-2,225.89	6,309.06	6,245.31	63.74	98.976		
10,700.00	6,027.00	5,800.00	5,608.11	89.52	32.76	-58.67	10,859.20	-2,225.89	6,209.95	6,146.31	63.64	97.573		
10,800.00	6,027.00	5,800.00	5,608.11	91.17	32.76	-58.67	10,859.20	-2,225.89	6,110.88	6,047.33	63.55	96.165		
10,900.00	6,027.00	5,800.00	5,608.11	92.83	32.76	-58.67	10,859.20	-2,225.89	6,011.84	5,948.39	63.45	94.751		
11,000.00	6,027.00	5,800.00	5,608.11	94.49	32.76	-58.67	10,859.20	-2,225.89	5,912.83	5,849.47	63.35	93.332		
11,100.00	6,027.00	5,800.00	5,608.11	96.16	32.76	-58.67	10,859.20	-2,225.89	5,813.85	5,750.59	63.26	91.907		
11,200.00	6,027.00	5,800.00	5,608.11	97.83	32.76	-58.67	10,859.20	-2,225.89	5,714.91	5,651.74	63.17	90.475		
11,300.00	6,027.00	5,800.00	5,608.11	99.50	32.76	-58.67	10,859.20	-2,225.89	5,616.00	5,552.93	63.08	89.037		
11,400.00	6,027.00	5,800.00	5,608.11	101.18	32.76	-58.67	10,859.20	-2,225.89	5,517.14	5,454.15	62.99	87.590		
11,500.00	6,027.00	5,800.00	5,608.11	102.86	32.76	-58.67	10,859.20	-2,225.89	5,418.31	5,355.41	62.90	86.136		
11,600.00	6,027.00	5,800.00	5,608.11	104.54	32.76	-58.67	10,859.20	-2,225.89	5,319.53	5,256.71	62.82	84.673		
11,700.00	6,027.00	5,800.00	5,608.11	106.23	32.76	-58.67	10,859.20	-2,225.89	5,220.80	5,158.05	62.75	83.201		
11,800.00	6,027.00	5,800.00	5,608.11	107.92	32.76	-58.67	10,859.20	-2,225.89	5,122.12	5,059.44	62.68	81.718		
11,900.00	6,027.00	5,800.00	5,608.11	109.61	32.76	-58.67	10,859.20	-2,225.89	5,023.49	4,960.87	62.62	80.225		
12,000.00	6,027.00	5,800.00	5,608.11	111.31	32.76	-58.67	10,859.20	-2,225.89	4,924.91	4,862.35	62.56	78.720		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,100.00	6,027.00	5,800.00	5,608.11	113.00	32.76	-58.67	10,859.20	-2,225.89	4,826.39	4,763.88	62.52	77.203		
12,200.00	6,027.00	5,800.00	5,608.11	114.71	32.76	-58.67	10,859.20	-2,225.89	4,727.94	4,665.46	62.48	75.672		
12,300.00	6,027.00	5,800.00	5,608.11	116.41	32.76	-58.67	10,859.20	-2,225.89	4,629.55	4,567.09	62.45	74.127		
12,400.00	6,027.00	5,800.00	5,608.11	118.11	32.76	-58.67	10,859.20	-2,225.89	4,531.23	4,468.79	62.44	72.566		
12,500.00	6,027.00	5,800.00	5,608.11	119.82	32.76	-58.67	10,859.20	-2,225.89	4,432.98	4,370.54	62.45	70.989		
12,600.00	6,027.00	5,800.00	5,608.11	121.53	32.76	-58.67	10,859.20	-2,225.89	4,334.82	4,272.35	62.47	69.393		
12,700.00	6,027.00	5,800.00	5,608.11	123.24	32.76	-58.67	10,859.20	-2,225.89	4,236.74	4,174.24	62.51	67.779		
12,800.00	6,027.00	5,800.00	5,608.11	124.95	32.76	-58.67	10,859.20	-2,225.89	4,138.76	4,076.19	62.57	66.145		
12,900.00	6,027.00	5,800.00	5,608.11	126.66	32.76	-58.67	10,859.20	-2,225.89	4,040.87	3,978.21	62.66	64.489		
13,000.00	6,027.00	5,800.00	5,608.11	128.38	32.76	-58.67	10,859.20	-2,225.89	3,943.09	3,880.31	62.78	62.811		
13,100.00	6,027.00	5,800.00	5,608.11	130.10	32.76	-58.67	10,859.20	-2,225.89	3,845.42	3,782.50	62.93	61.109		
13,200.00	6,027.00	5,800.00	5,608.11	131.82	32.76	-58.67	10,859.20	-2,225.89	3,747.88	3,684.77	63.11	59.382		
13,300.00	6,027.00	5,800.00	5,608.11	133.54	32.76	-58.67	10,859.20	-2,225.89	3,650.47	3,587.13	63.34	57.630		
13,400.00	6,027.00	5,800.00	5,608.11	135.26	32.76	-58.67	10,859.20	-2,225.89	3,553.20	3,489.58	63.62	55.851		
13,500.00	6,027.00	5,800.00	5,608.11	136.98	32.76	-58.67	10,859.20	-2,225.89	3,456.09	3,392.14	63.95	54.045		
13,600.00	6,027.00	5,822.42	5,629.44	138.71	32.90	-59.72	10,862.75	-2,219.97	3,358.65	3,294.33	64.32	52.218		
13,700.00	6,027.00	5,825.11	5,631.99	140.43	32.91	-59.85	10,863.24	-2,219.26	3,261.76	3,197.01	64.75	50.372		
13,800.00	6,027.00	5,827.95	5,634.67	142.16	32.93	-59.99	10,863.76	-2,218.52	3,165.05	3,099.79	65.25	48.503		
13,900.00	6,027.00	5,850.00	5,655.47	143.89	33.06	-61.07	10,868.30	-2,212.75	3,068.90	3,003.13	65.77	46.661		
14,000.00	6,027.00	5,850.00	5,655.47	145.62	33.06	-61.07	10,868.30	-2,212.75	2,972.48	2,906.06	66.43	44.747		
14,100.00	6,027.00	5,850.00	5,655.47	147.35	33.06	-61.07	10,868.30	-2,212.75	2,876.31	2,809.12	67.19	42.810		
14,200.00	6,027.00	5,850.00	5,655.47	149.08	33.06	-61.07	10,868.30	-2,212.75	2,780.41	2,712.35	68.06	40.853		
14,300.00	6,027.00	5,850.00	5,655.47	150.81	33.06	-61.07	10,868.30	-2,212.75	2,684.80	2,615.75	69.06	38.878		
14,400.00	6,027.00	5,850.00	5,655.47	152.54	33.06	-61.07	10,868.30	-2,212.75	2,589.53	2,519.34	70.20	36.890		
14,500.00	6,027.00	5,850.00	5,655.47	154.28	33.06	-61.07	10,868.30	-2,212.75	2,494.63	2,423.14	71.49	34.895		
14,600.00	6,027.00	5,850.00	5,655.47	156.01	33.06	-61.07	10,868.30	-2,212.75	2,400.14	2,327.18	72.96	32.897		
14,700.00	6,027.00	5,850.00	5,655.47	157.75	33.06	-61.07	10,868.30	-2,212.75	2,306.12	2,231.50	74.62	30.904		
14,800.00	6,027.00	5,850.00	5,655.47	159.49	33.06	-61.07	10,868.30	-2,212.75	2,212.62	2,136.12	76.50	28.923		
14,900.00	6,027.00	5,873.16	5,677.10	161.22	33.20	-62.24	10,873.97	-2,206.74	2,119.14	2,040.89	78.25	27.083		
15,000.00	6,027.00	5,879.17	5,682.68	162.96	33.24	-62.55	10,875.58	-2,205.19	2,026.56	1,946.08	80.49	25.178		
15,100.00	6,027.00	5,900.00	5,701.88	164.70	33.36	-63.64	10,881.66	-2,199.85	1,934.86	1,852.15	82.71	23.393		
15,200.00	6,027.00	5,900.00	5,701.88	166.44	33.36	-63.64	10,881.66	-2,199.85	1,843.51	1,757.87	85.64	21.526		
15,300.00	6,027.00	5,900.00	5,701.88	168.18	33.36	-63.64	10,881.66	-2,199.85	1,753.10	1,664.16	88.94	19.710		
15,400.00	6,027.00	5,900.00	5,701.88	169.93	33.36	-63.64	10,881.66	-2,199.85	1,663.79	1,571.13	92.66	17.956		
15,500.00	6,027.00	5,900.00	5,701.88	171.67	33.36	-63.64	10,881.66	-2,199.85	1,575.76	1,478.92	96.84	16.272		
15,600.00	6,027.00	5,927.67	5,727.02	173.41	33.53	-65.12	10,890.84	-2,192.86	1,488.38	1,387.64	100.73	14.776		
15,700.00	6,027.00	5,950.00	5,746.98	175.15	33.66	-66.34	10,899.16	-2,187.31	1,402.96	1,297.72	105.24	13.331		
15,800.00	6,027.00	5,950.00	5,746.98	176.90	33.66	-66.34	10,899.16	-2,187.31	1,318.95	1,207.86	111.09	11.873		
15,900.00	6,027.00	5,950.00	5,746.98	178.64	33.66	-66.34	10,899.16	-2,187.31	1,237.32	1,119.67	117.65	10.517		
16,000.00	6,027.00	5,979.24	5,772.62	180.39	33.83	-67.98	10,911.26	-2,180.17	1,157.56	1,033.67	123.89	9.344		
16,100.00	6,027.00	6,000.00	5,790.45	182.13	33.95	-69.17	10,920.67	-2,175.20	1,080.81	949.62	131.19	8.238		
16,200.00	6,027.00	6,015.03	5,803.14	183.88	34.04	-70.03	10,927.90	-2,171.66	1,007.29	867.69	139.60	7.216		
16,300.00	6,027.00	6,050.00	5,831.93	185.63	34.24	-72.06	10,946.03	-2,163.63	937.86	789.95	147.91	6.341		
16,400.00	6,027.00	6,050.00	5,831.93	187.38	34.24	-72.06	10,946.03	-2,163.63	872.67	713.87	158.80	5.495		
16,500.00	6,027.00	6,100.00	5,871.13	189.12	34.51	-74.99	10,975.05	-2,152.68	812.85	644.97	167.87	4.842		
16,600.00	6,027.00	6,121.06	5,886.88	190.87	34.63	-76.22	10,988.32	-2,148.28	758.98	579.99	178.98	4.240		
16,700.00	6,027.00	6,150.00	5,907.74	192.62	34.79	-77.90	11,007.51	-2,142.44	712.23	522.41	189.82	3.752		
16,795.97	6,027.00	6,200.00	5,941.47	194.30	35.05	-80.72	11,043.16	-2,132.97	674.29	475.55	198.74	3.393 CC, ES, SF		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT PRONGHORN 31-8 (GYRO) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	60.00	60.00	0.27	0.19	-34.99	4,984.04	-3,488.79	6,083.77	6,083.32	0.46	N/A		
200.00	200.00	160.00	160.00	0.63	0.53	-34.99	4,984.04	-3,488.79	6,083.77	6,082.62	1.16	5,254.309		
300.00	300.00	260.00	260.00	0.99	0.89	-34.99	4,984.04	-3,488.79	6,083.77	6,081.90	1.87	3,245.014		
400.00	400.00	360.00	360.00	1.34	1.25	-34.99	4,984.04	-3,488.79	6,083.77	6,081.18	2.59	2,347.361		
500.00	500.00	460.00	460.00	1.70	1.61	-34.99	4,984.04	-3,488.79	6,083.77	6,080.46	3.31	1,838.724		
600.00	600.00	560.00	560.00	2.06	1.96	-34.99	4,984.04	-3,488.79	6,083.77	6,079.75	4.03	1,511.258		
700.00	700.00	660.00	660.00	2.42	2.32	-34.99	4,984.04	-3,488.79	6,083.77	6,079.03	4.74	1,282.799		
800.00	800.00	760.00	760.00	2.78	2.68	-34.99	4,984.04	-3,488.79	6,083.77	6,078.31	5.46	1,114.342		
900.00	900.00	860.00	860.00	3.14	3.04	-34.99	4,984.04	-3,488.79	6,083.77	6,077.60	6.18	984.993		
1,000.00	999.98	959.98	959.98	3.49	3.40	54.29	4,984.04	-3,488.79	6,082.75	6,075.87	6.89	883.453		
1,100.00	1,099.84	1,059.84	1,059.84	3.83	3.76	54.38	4,984.04	-3,488.79	6,079.70	6,072.11	7.59	801.070		
1,200.00	1,199.45	1,159.45	1,159.45	4.19	4.11	54.53	4,984.04	-3,488.79	6,074.62	6,066.32	8.30	731.934		
1,300.00	1,298.70	1,258.70	1,258.70	4.55	4.47	54.74	4,984.04	-3,488.79	6,067.53	6,058.52	9.02	672.902		
1,400.00	1,397.47	1,357.47	1,357.47	4.94	4.82	55.01	4,984.04	-3,488.79	6,058.46	6,048.71	9.74	621.700		
1,500.00	1,495.62	1,455.62	1,455.62	5.34	5.17	55.34	4,984.04	-3,488.79	6,047.42	6,036.94	10.49	576.657		
1,600.00	1,593.06	1,553.06	1,553.06	5.78	5.52	55.73	4,984.04	-3,488.79	6,034.47	6,023.22	11.25	536.533		
1,700.00	1,689.64	1,649.64	1,649.64	6.24	5.87	56.18	4,984.04	-3,488.79	6,019.63	6,007.60	12.03	500.394		
1,800.00	1,785.27	1,745.27	1,745.27	6.75	6.21	56.67	4,984.04	-3,488.79	6,002.96	5,990.12	12.84	467.496		
1,900.00	1,880.44	1,840.44	1,840.44	7.30	6.55	56.90	4,984.04	-3,488.79	5,985.55	5,971.88	13.67	437.788		
2,000.00	1,975.60	1,935.60	1,935.60	7.86	6.90	57.14	4,984.04	-3,488.79	5,968.25	5,953.73	14.52	411.005		
2,100.00	2,070.77	2,030.77	2,030.77	8.43	7.24	57.38	4,984.04	-3,488.79	5,951.05	5,935.67	15.38	386.824		
2,200.00	2,165.93	2,125.93	2,125.93	9.02	7.58	57.62	4,984.04	-3,488.79	5,933.97	5,917.71	16.26	364.945		
2,300.00	2,261.10	2,221.10	2,221.10	9.62	7.92	57.87	4,984.04	-3,488.79	5,916.99	5,899.84	17.15	345.097		
2,400.00	2,356.26	2,316.26	2,316.26	10.23	8.26	58.11	4,984.04	-3,488.79	5,900.12	5,882.08	18.04	327.042		
2,500.00	2,451.43	2,411.43	2,411.43	10.84	8.60	58.36	4,984.04	-3,488.79	5,883.37	5,864.43	18.94	310.569		
2,600.00	2,546.59	2,506.59	2,506.59	11.46	8.94	58.60	4,984.04	-3,488.79	5,866.73	5,846.87	19.85	295.496		
2,700.00	2,641.76	2,601.76	2,601.76	12.09	9.28	58.85	4,984.04	-3,488.79	5,850.20	5,829.43	20.77	281.665		
2,800.00	2,736.92	2,696.92	2,696.92	12.72	9.62	59.10	4,984.04	-3,488.79	5,833.79	5,812.10	21.69	268.938		
2,900.00	2,832.09	2,792.09	2,792.09	13.35	9.97	59.35	4,984.04	-3,488.79	5,817.49	5,794.88	22.62	257.194		
3,000.00	2,927.25	2,887.25	2,887.25	13.99	10.31	59.60	4,984.04	-3,488.79	5,801.32	5,777.76	23.55	246.332		
3,100.00	3,022.42	2,982.42	2,982.42	14.63	10.65	59.85	4,984.04	-3,488.79	5,785.25	5,760.77	24.49	236.258		
3,200.00	3,117.58	3,077.58	3,077.58	15.27	10.99	60.11	4,984.04	-3,488.79	5,769.31	5,743.88	25.43	226.895		
3,300.00	3,212.75	3,172.75	3,172.75	15.91	11.33	60.36	4,984.04	-3,488.79	5,753.49	5,727.12	26.37	218.173		
3,400.00	3,307.91	3,267.91	3,267.91	16.56	11.67	60.62	4,984.04	-3,488.79	5,737.79	5,710.47	27.32	210.031		
3,500.00	3,403.08	3,363.08	3,363.08	17.20	12.01	60.88	4,984.04	-3,488.79	5,722.21	5,693.94	28.27	202.415		
3,600.00	3,498.24	3,458.24	3,458.24	17.85	12.35	61.14	4,984.04	-3,488.79	5,706.75	5,677.53	29.22	195.277		
3,700.00	3,593.41	3,553.41	3,553.41	18.50	12.69	61.40	4,984.04	-3,488.79	5,691.42	5,661.24	30.18	188.576		
3,800.00	3,688.57	3,648.57	3,648.57	19.15	13.04	61.66	4,984.04	-3,488.79	5,676.21	5,645.07	31.14	182.274		
3,900.00	3,783.74	3,743.74	3,743.74	19.81	13.38	61.92	4,984.04	-3,488.79	5,661.13	5,629.02	32.10	176.337		
4,000.00	3,878.90	3,838.90	3,838.90	20.46	13.72	62.19	4,984.04	-3,488.79	5,646.17	5,613.10	33.07	170.735		
4,100.00	3,974.07	3,934.07	3,934.07	21.11	14.06	62.46	4,984.04	-3,488.79	5,631.34	5,597.31	34.04	165.443		
4,200.00	4,069.23	4,029.23	4,029.23	21.77	14.40	62.72	4,984.04	-3,488.79	5,616.64	5,581.64	35.01	160.435		
4,300.00	4,164.40	4,124.40	4,124.40	22.42	14.74	62.99	4,984.04	-3,488.79	5,602.08	5,566.09	35.98	155.691		
4,400.00	4,259.56	4,219.56	4,219.56	23.08	15.08	63.26	4,984.04	-3,488.79	5,587.64	5,550.68	36.96	151.190		
4,500.00	4,354.73	4,314.73	4,314.73	23.74	15.42	63.53	4,984.04	-3,488.79	5,573.33	5,535.40	37.94	146.916		
4,600.00	4,449.89	4,409.89	4,409.89	24.39	15.77	63.80	4,984.04	-3,488.79	5,559.16	5,520.24	38.92	142.851		
4,700.00	4,545.06	4,505.06	4,505.06	25.05	16.11	64.08	4,984.04	-3,488.79	5,545.12	5,505.22	39.90	138.982		
4,800.00	4,640.22	4,600.22	4,600.22	25.71	16.45	64.35	4,984.04	-3,488.79	5,531.21	5,490.33	40.88	135.295		
4,900.00	4,735.39	4,695.39	4,695.39	26.37	16.79	64.63	4,984.04	-3,488.79	5,517.45	5,475.58	41.87	131.778		
5,000.00	4,830.55	4,790.55	4,790.55	27.03	17.13	64.91	4,984.04	-3,488.79	5,503.81	5,460.96	42.86	128.421		
5,100.00	4,925.72	4,885.72	4,885.72	27.69	17.47	65.19	4,984.04	-3,488.79	5,490.32	5,446.47	43.85	125.212		
5,200.00	5,020.88	4,980.88	4,980.88	28.35	17.81	65.47	4,984.04	-3,488.79	5,476.97	5,432.13	44.84	122.142		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,076.05	5,076.05	29.01	18.15	65.75	4,984.04	-3,488.79	5,463.75	5,417.92	45.84	119.204		
5,400.00	5,211.21	5,171.21	5,171.21	29.67	18.49	66.03	4,984.04	-3,488.79	5,450.68	5,403.85	46.83	116.389		
5,500.00	5,306.38	5,266.38	5,266.38	30.33	18.84	66.31	4,984.04	-3,488.79	5,437.75	5,389.92	47.83	113.690		
5,600.00	5,401.54	5,361.54	5,361.54	30.99	19.18	66.60	4,984.04	-3,488.79	5,424.96	5,376.13	48.83	111.100		
5,700.00	5,496.71	5,456.71	5,456.71	31.65	19.52	62.67	4,984.04	-3,488.79	5,412.17	5,362.34	49.83	108.611		
5,800.00	5,591.13	5,551.13	5,551.13	32.30	19.86	35.02	4,984.04	-3,488.79	5,389.63	5,338.86	50.77	106.160		
5,900.00	5,682.22	5,642.22	5,642.22	32.92	20.18	16.69	4,984.04	-3,488.79	5,351.90	5,300.32	51.58	103.764		
6,000.00	5,767.23	5,727.23	5,727.23	33.50	20.49	4.51	4,984.04	-3,488.79	5,300.06	5,247.83	52.23	101.471		
6,100.00	5,843.56	5,803.56	5,803.56	34.04	20.76	-5.34	4,984.04	-3,488.79	5,235.65	5,182.94	52.72	99.319		
6,200.00	5,908.90	5,868.90	5,868.90	34.53	21.00	-15.49	4,984.04	-3,488.79	5,160.64	5,107.63	53.01	97.345		
6,300.00	5,961.25	5,921.25	5,921.25	34.99	21.18	-28.38	4,984.04	-3,488.79	5,077.34	5,024.22	53.12	95.579		
6,400.00	5,999.04	5,959.04	5,959.04	35.42	21.32	-46.58	4,984.04	-3,488.79	4,988.37	4,935.33	53.04	94.049		
6,500.00	6,021.11	5,981.11	5,981.11	35.83	21.40	-70.27	4,984.04	-3,488.79	4,896.53	4,843.75	52.78	92.773		
6,600.00	6,027.00	5,987.00	5,987.00	36.24	21.42	-90.00	4,984.04	-3,488.79	4,804.74	4,752.38	52.36	91.762		
6,700.00	6,027.00	5,987.00	5,987.00	36.68	21.42	-90.00	4,984.04	-3,488.79	4,713.79	4,661.90	51.89	90.836		
6,800.00	6,027.00	5,987.00	5,987.00	37.20	21.42	-90.00	4,984.04	-3,488.79	4,623.22	4,571.79	51.43	89.895		
6,900.00	6,027.00	5,987.00	5,987.00	37.80	21.42	-90.00	4,984.04	-3,488.79	4,533.04	4,482.07	50.97	88.935		
7,000.00	6,027.00	5,987.00	5,987.00	38.47	21.42	-90.00	4,984.04	-3,488.79	4,443.28	4,392.76	50.52	87.952		
7,100.00	6,027.00	5,987.00	5,987.00	39.21	21.42	-90.00	4,984.04	-3,488.79	4,353.97	4,303.89	50.08	86.938		
7,200.00	6,027.00	5,987.00	5,987.00	40.02	21.42	-90.00	4,984.04	-3,488.79	4,265.13	4,215.47	49.66	85.887		
7,300.00	6,027.00	5,987.00	5,987.00	40.89	21.42	-90.00	4,984.04	-3,488.79	4,176.80	4,127.54	49.26	84.790		
7,400.00	6,027.00	5,987.00	5,987.00	41.83	21.42	-90.00	4,984.04	-3,488.79	4,089.00	4,040.11	48.89	83.637		
7,500.00	6,027.00	5,987.00	5,987.00	42.83	21.42	-90.00	4,984.04	-3,488.79	4,001.78	3,953.23	48.55	82.418		
7,600.00	6,027.00	5,987.00	5,987.00	43.88	21.42	-90.00	4,984.04	-3,488.79	3,915.17	3,866.91	48.26	81.120		
7,700.00	6,027.00	5,987.00	5,987.00	44.99	21.42	-90.00	4,984.04	-3,488.79	3,829.21	3,781.18	48.03	79.732		
7,800.00	6,027.00	5,987.00	5,987.00	46.14	21.42	-90.00	4,984.04	-3,488.79	3,743.95	3,696.10	47.85	78.239		
7,900.00	6,027.00	5,987.00	5,987.00	47.33	21.42	-90.00	4,984.04	-3,488.79	3,659.43	3,611.68	47.75	76.630		
8,000.00	6,027.00	5,987.00	5,987.00	48.57	21.42	-90.00	4,984.04	-3,488.79	3,575.72	3,527.97	47.74	74.893		
8,100.00	6,027.00	5,987.00	5,987.00	49.84	21.42	-90.00	4,984.04	-3,488.79	3,492.86	3,445.02	47.84	73.018		
8,200.00	6,027.00	5,987.00	5,987.00	51.15	21.42	-90.00	4,984.04	-3,488.79	3,410.92	3,362.88	48.04	70.999		
8,300.00	6,027.00	5,987.00	5,987.00	52.48	21.42	-90.00	4,984.04	-3,488.79	3,329.97	3,281.59	48.38	68.835		
8,400.00	6,027.00	5,987.00	5,987.00	53.85	21.42	-90.00	4,984.04	-3,488.79	3,250.07	3,201.22	48.85	66.528		
8,500.00	6,027.00	5,987.00	5,987.00	55.24	21.42	-90.00	4,984.04	-3,488.79	3,171.32	3,121.84	49.48	64.089		
8,600.00	6,027.00	5,987.00	5,987.00	56.65	21.42	-90.00	4,984.04	-3,488.79	3,093.80	3,043.52	50.28	61.534		
8,700.00	6,027.00	5,987.00	5,987.00	58.08	21.42	-90.00	4,984.04	-3,488.79	3,017.59	2,966.35	51.25	58.882		
8,800.00	6,027.00	5,987.00	5,987.00	59.54	21.42	-90.00	4,984.04	-3,488.79	2,942.82	2,890.42	52.40	56.161		
8,900.00	6,027.00	5,987.00	5,987.00	61.01	21.42	-90.00	4,984.04	-3,488.79	2,869.58	2,815.84	53.74	53.398		
9,000.00	6,027.00	5,987.00	5,987.00	62.50	21.42	-90.00	4,984.04	-3,488.79	2,798.00	2,742.73	55.27	50.624		
9,100.00	6,027.00	5,987.00	5,987.00	64.01	21.42	-90.00	4,984.04	-3,488.79	2,728.20	2,671.21	56.99	47.868		
9,200.00	6,027.00	5,987.00	5,987.00	65.53	21.42	-90.00	4,984.04	-3,488.79	2,660.34	2,601.42	58.91	45.158		
9,300.00	6,027.00	5,987.00	5,987.00	67.06	21.42	-90.00	4,984.04	-3,488.79	2,594.55	2,533.53	61.02	42.519		
9,400.00	6,027.00	5,987.00	5,987.00	68.61	21.42	-90.00	4,984.04	-3,488.79	2,531.01	2,467.69	63.32	39.974		
9,500.00	6,027.00	5,987.00	5,987.00	70.17	21.42	-90.00	4,984.04	-3,488.79	2,469.88	2,404.08	65.80	37.539		
9,600.00	6,027.00	5,987.00	5,987.00	71.73	21.42	-90.00	4,984.04	-3,488.79	2,411.35	2,342.90	68.45	35.228		
9,700.00	6,027.00	5,987.00	5,987.00	73.31	21.42	-90.00	4,984.04	-3,488.79	2,355.61	2,284.34	71.27	33.053		
9,800.00	6,027.00	5,987.00	5,987.00	74.90	21.42	-90.00	4,984.04	-3,488.79	2,302.87	2,228.63	74.24	31.019		
9,900.00	6,027.00	5,987.00	5,987.00	76.50	21.42	-90.00	4,984.04	-3,488.79	2,253.33	2,175.98	77.35	29.131		
10,000.00	6,027.00	5,987.00	5,987.00	78.10	21.42	-90.00	4,984.04	-3,488.79	2,207.22	2,126.63	80.58	27.391		
10,100.00	6,027.00	5,987.00	5,987.00	79.71	21.42	-90.00	4,984.04	-3,488.79	2,164.74	2,080.83	83.91	25.798		
10,200.00	6,027.00	5,987.00	5,987.00	81.33	21.42	-90.00	4,984.04	-3,488.79	2,126.12	2,038.81	87.32	24.350		
10,300.00	6,027.00	5,987.00	5,987.00	82.96	21.42	-90.00	4,984.04	-3,488.79	2,091.58	2,000.81	90.77	23.044		
10,400.00	6,027.00	5,987.00	5,987.00	84.59	21.42	-90.00	4,984.04	-3,488.79	2,061.31	1,967.08	94.23	21.875		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT PRONGHORN 31-8 (GYRO) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,500.00	6,027.00	5,987.00	5,987.00	86.23	21.42	-90.00	4,984.04	-3,488.79	2,035.51	1,937.83	97.68	20.838		
10,600.00	6,027.00	5,987.00	5,987.00	87.87	21.42	-90.00	4,984.04	-3,488.79	2,014.35	1,913.27	101.08	19.929		
10,700.00	6,027.00	5,987.00	5,987.00	89.52	21.42	-90.00	4,984.04	-3,488.79	1,997.98	1,893.59	104.39	19.140		
10,800.00	6,027.00	5,987.00	5,987.00	91.17	21.42	-90.00	4,984.04	-3,488.79	1,986.51	1,878.93	107.57	18.466		
10,900.00	6,027.00	5,987.00	5,987.00	92.83	21.42	-90.00	4,984.04	-3,488.79	1,980.03	1,869.42	110.61	17.902		
10,978.49	6,027.00	5,987.00	5,987.00	94.13	21.42	-90.00	4,984.04	-3,488.79	1,978.47	1,865.62	112.86	17.531	CC	
11,000.00	6,027.00	5,987.00	5,987.00	94.49	21.42	-90.00	4,984.04	-3,488.79	1,978.59	1,865.14	113.45	17.440	ES	
11,100.00	6,027.00	5,987.00	5,987.00	96.16	21.42	-90.00	4,984.04	-3,488.79	1,982.20	1,866.11	116.09	17.075		
11,200.00	6,027.00	5,987.00	5,987.00	97.83	21.42	-90.00	4,984.04	-3,488.79	1,990.84	1,872.34	118.50	16.801		
11,300.00	6,027.00	5,987.00	5,987.00	99.50	21.42	-90.00	4,984.04	-3,488.79	2,004.43	1,883.77	120.66	16.612		
11,400.00	6,027.00	5,987.00	5,987.00	101.18	21.42	-90.00	4,984.04	-3,488.79	2,022.88	1,900.30	122.57	16.503		
11,500.00	6,027.00	5,987.00	5,987.00	102.86	21.42	-90.00	4,984.04	-3,488.79	2,046.05	1,921.82	124.23	16.469	SF	
11,600.00	6,027.00	5,987.00	5,987.00	104.54	21.42	-90.00	4,984.04	-3,488.79	2,073.80	1,948.15	125.64	16.505		
11,700.00	6,027.00	5,987.00	5,987.00	106.23	21.42	-90.00	4,984.04	-3,488.79	2,105.93	1,979.12	126.81	16.607		
11,800.00	6,027.00	5,987.00	5,987.00	107.92	21.42	-90.00	4,984.04	-3,488.79	2,142.25	2,014.50	127.75	16.769		
11,900.00	6,027.00	5,987.00	5,987.00	109.61	21.42	-90.00	4,984.04	-3,488.79	2,182.55	2,054.07	128.48	16.987		
12,000.00	6,027.00	5,987.00	5,987.00	111.31	21.42	-90.00	4,984.04	-3,488.79	2,226.62	2,097.61	129.01	17.259		
12,100.00	6,027.00	5,987.00	5,987.00	113.00	21.42	-90.00	4,984.04	-3,488.79	2,274.23	2,144.87	129.37	17.579		
12,200.00	6,027.00	5,987.00	5,987.00	114.71	21.42	-90.00	4,984.04	-3,488.79	2,325.18	2,195.61	129.56	17.946		
12,300.00	6,027.00	5,987.00	5,987.00	116.41	21.42	-90.00	4,984.04	-3,488.79	2,379.23	2,249.61	129.62	18.355		
12,400.00	6,027.00	5,987.00	5,987.00	118.11	21.42	-90.00	4,984.04	-3,488.79	2,436.20	2,306.64	129.55	18.805		
12,500.00	6,027.00	5,987.00	5,987.00	119.82	21.42	-90.00	4,984.04	-3,488.79	2,495.87	2,366.49	129.38	19.291		
12,600.00	6,027.00	5,987.00	5,987.00	121.53	21.42	-90.00	4,984.04	-3,488.79	2,558.06	2,428.94	129.12	19.812		
12,700.00	6,027.00	5,987.00	5,987.00	123.24	21.42	-90.00	4,984.04	-3,488.79	2,622.59	2,493.81	128.78	20.365		
12,800.00	6,027.00	5,987.00	5,987.00	124.95	21.42	-90.00	4,984.04	-3,488.79	2,689.29	2,560.91	128.38	20.948		
12,900.00	6,027.00	5,987.00	5,987.00	126.66	21.42	-90.00	4,984.04	-3,488.79	2,758.00	2,630.07	127.93	21.559		
13,000.00	6,027.00	5,987.00	5,987.00	128.38	21.42	-90.00	4,984.04	-3,488.79	2,828.58	2,701.15	127.43	22.197		
13,100.00	6,027.00	5,987.00	5,987.00	130.10	21.42	-90.00	4,984.04	-3,488.79	2,900.89	2,773.99	126.90	22.859		
13,200.00	6,027.00	5,987.00	5,987.00	131.82	21.42	-90.00	4,984.04	-3,488.79	2,974.81	2,848.46	126.35	23.545		
13,300.00	6,027.00	5,987.00	5,987.00	133.54	21.42	-90.00	4,984.04	-3,488.79	3,050.21	2,924.43	125.77	24.252		
13,400.00	6,027.00	5,987.00	5,987.00	135.26	21.42	-90.00	4,984.04	-3,488.79	3,126.99	3,001.80	125.19	24.979		
13,500.00	6,027.00	5,987.00	5,987.00	136.98	21.42	-90.00	4,984.04	-3,488.79	3,205.05	3,080.46	124.59	25.725		
13,600.00	6,027.00	5,987.00	5,987.00	138.71	21.42	-90.00	4,984.04	-3,488.79	3,284.31	3,160.32	123.99	26.488		
13,700.00	6,027.00	5,987.00	5,987.00	140.43	21.42	-90.00	4,984.04	-3,488.79	3,364.67	3,241.28	123.39	27.269		
13,800.00	6,027.00	5,987.00	5,987.00	142.16	21.42	-90.00	4,984.04	-3,488.79	3,446.05	3,323.26	122.79	28.065		
13,900.00	6,027.00	5,987.00	5,987.00	143.89	21.42	-90.00	4,984.04	-3,488.79	3,528.40	3,406.20	122.19	28.875		
14,000.00	6,027.00	5,987.00	5,987.00	145.62	21.42	-90.00	4,984.04	-3,488.79	3,611.63	3,490.03	121.60	29.700		
14,100.00	6,027.00	5,987.00	5,987.00	147.35	21.42	-90.00	4,984.04	-3,488.79	3,695.70	3,574.68	121.02	30.537		
14,200.00	6,027.00	5,987.00	5,987.00	149.08	21.42	-90.00	4,984.04	-3,488.79	3,780.54	3,660.09	120.45	31.387		
14,300.00	6,027.00	5,987.00	5,987.00	150.81	21.42	-90.00	4,984.04	-3,488.79	3,866.11	3,746.22	119.89	32.248		
14,400.00	6,027.00	5,987.00	5,987.00	152.54	21.42	-90.00	4,984.04	-3,488.79	3,952.35	3,833.02	119.33	33.121		
14,500.00	6,027.00	5,987.00	5,987.00	154.28	21.42	-90.00	4,984.04	-3,488.79	4,039.23	3,920.44	118.79	34.003		
14,600.00	6,027.00	5,987.00	5,987.00	156.01	21.42	-90.00	4,984.04	-3,488.79	4,126.70	4,008.44	118.26	34.895		
14,700.00	6,027.00	5,987.00	5,987.00	157.75	21.42	-90.00	4,984.04	-3,488.79	4,214.74	4,096.99	117.74	35.796		
14,800.00	6,027.00	5,987.00	5,987.00	159.49	21.42	-90.00	4,984.04	-3,488.79	4,303.29	4,186.05	117.24	36.706		
14,900.00	6,027.00	5,987.00	5,987.00	161.22	21.42	-90.00	4,984.04	-3,488.79	4,392.33	4,275.59	116.74	37.624		
15,000.00	6,027.00	5,987.00	5,987.00	162.96	21.42	-90.00	4,984.04	-3,488.79	4,481.84	4,365.58	116.26	38.550		
15,100.00	6,027.00	5,987.00	5,987.00	164.70	21.42	-90.00	4,984.04	-3,488.79	4,571.78	4,455.99	115.79	39.483		
15,200.00	6,027.00	5,987.00	5,987.00	166.44	21.42	-90.00	4,984.04	-3,488.79	4,662.14	4,546.80	115.33	40.423		
15,300.00	6,027.00	5,987.00	5,987.00	168.18	21.42	-90.00	4,984.04	-3,488.79	4,752.87	4,637.99	114.89	41.370		
15,400.00	6,027.00	5,987.00	5,987.00	169.93	21.42	-90.00	4,984.04	-3,488.79	4,843.98	4,729.52	114.45	42.323		
15,500.00	6,027.00	5,987.00	5,987.00	171.67	21.42	-90.00	4,984.04	-3,488.79	4,935.42	4,821.39	114.03	43.281		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 8-T5N-R61W - ABND VERT PRONGHORN 31-8 (GYRO) - OWB - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	5,987.00	5,987.00	173.41	21.42	-90.00	4,984.04	-3,488.79	5,027.20	4,913.58	113.62	44.245	
15,700.00	6,027.00	5,987.00	5,987.00	175.15	21.42	-90.00	4,984.04	-3,488.79	5,119.28	5,006.06	113.22	45.214	
15,800.00	6,027.00	5,987.00	5,987.00	176.90	21.42	-90.00	4,984.04	-3,488.79	5,211.65	5,098.82	112.83	46.189	
15,900.00	6,027.00	5,987.00	5,987.00	178.64	21.42	-90.00	4,984.04	-3,488.79	5,304.30	5,191.85	112.46	47.168	
16,000.00	6,027.00	5,987.00	5,987.00	180.39	21.42	-90.00	4,984.04	-3,488.79	5,397.21	5,285.13	112.09	48.151	
16,100.00	6,027.00	5,987.00	5,987.00	182.13	21.42	-90.00	4,984.04	-3,488.79	5,490.38	5,378.64	111.73	49.139	
16,200.00	6,027.00	5,987.00	5,987.00	183.88	21.42	-90.00	4,984.04	-3,488.79	5,583.77	5,472.39	111.38	50.130	
16,300.00	6,027.00	5,987.00	5,987.00	185.63	21.42	-90.00	4,984.04	-3,488.79	5,677.40	5,566.35	111.05	51.126	
16,400.00	6,027.00	5,987.00	5,987.00	187.38	21.42	-90.00	4,984.04	-3,488.79	5,771.23	5,660.51	110.72	52.125	
16,500.00	6,027.00	5,987.00	5,987.00	189.12	21.42	-90.00	4,984.04	-3,488.79	5,865.27	5,754.87	110.40	53.127	
16,600.00	6,027.00	5,987.00	5,987.00	190.87	21.42	-90.00	4,984.04	-3,488.79	5,959.51	5,849.42	110.09	54.133	
16,700.00	6,027.00	5,987.00	5,987.00	192.62	21.42	-90.00	4,984.04	-3,488.79	6,053.93	5,944.14	109.79	55.141	
16,795.97	6,027.00	5,987.00	5,987.00	194.30	21.42	-90.00	4,984.04	-3,488.79	6,144.71	6,035.20	109.51	56.112	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT PRONGHORN 31-8 (GYRO) - OWB - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 50-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	68.88	68.88	0.27	0.13	-34.99	4,984.06	-3,488.70	6,083.75	6,083.35	0.40	N/A		
156.72	156.72	116.72	116.72	0.47	0.30	-34.99	4,984.03	-3,488.58	6,083.65	6,082.88	0.77	7,881.095		
200.00	200.00	150.00	150.00	0.63	0.42	-34.99	4,984.06	-3,488.72	6,083.76	6,082.71	1.04	5,831.791		
300.00	300.00	293.22	293.22	0.99	0.92	-34.99	4,984.25	-3,488.59	6,083.92	6,082.02	1.90	3,198.933		
400.00	400.00	416.83	416.82	1.34	1.35	-34.99	4,983.09	-3,488.43	6,083.05	6,080.36	2.69	2,258.704		
500.00	500.00	546.98	546.96	1.70	1.81	-35.00	4,981.34	-3,488.27	6,081.88	6,078.37	3.51	1,733.767		
600.00	600.00	620.58	620.55	2.06	2.07	-35.01	4,980.24	-3,488.16	6,080.60	6,076.48	4.12	1,474.308		
700.00	700.00	726.86	726.82	2.42	2.44	-35.01	4,979.22	-3,488.03	6,079.76	6,074.90	4.86	1,252.264		
800.00	800.00	807.30	807.26	2.78	2.72	-35.02	4,978.29	-3,487.94	6,078.76	6,073.26	5.50	1,106.171		
900.00	900.00	895.38	895.34	3.14	3.03	-35.02	4,977.59	-3,487.89	6,078.08	6,071.91	6.16	986.358		
1,000.00	999.98	985.19	985.14	3.49	3.34	54.27	4,976.91	-3,488.07	6,076.55	6,069.73	6.83	890.114		
1,100.00	1,099.84	1,100.00	1,099.95	3.83	3.74	54.36	4,975.74	-3,488.54	6,072.89	6,065.32	7.57	801.707		
1,200.00	1,199.45	1,187.62	1,187.56	4.19	4.05	54.51	4,974.97	-3,488.83	6,067.27	6,059.04	8.23	736.835		
1,300.00	1,298.70	1,269.44	1,269.39	4.55	4.33	54.70	4,974.51	-3,489.06	6,059.87	6,050.99	8.88	682.286		
1,400.00	1,397.47	1,334.66	1,334.60	4.94	4.56	54.92	4,974.32	-3,489.32	6,050.81	6,041.33	9.48	638.094		
1,500.00	1,495.62	1,513.00	1,512.94	5.34	5.19	55.37	4,973.28	-3,489.58	6,039.28	6,028.78	10.50	575.385		
1,600.00	1,593.06	1,572.45	1,572.38	5.78	5.39	55.70	4,972.65	-3,489.78	6,025.66	6,014.54	11.11	542.123		
1,700.00	1,689.64	1,646.07	1,646.00	6.24	5.65	56.10	4,972.36	-3,490.20	6,010.76	5,998.96	11.81	509.043		
1,800.00	1,785.27	1,739.62	1,739.55	6.75	5.98	56.57	4,971.99	-3,490.77	5,994.08	5,981.48	12.60	475.645		
1,900.00	1,880.44	1,841.22	1,841.14	7.30	6.34	56.82	4,971.26	-3,491.66	5,976.52	5,963.07	13.45	444.459		
2,000.00	1,975.60	1,928.56	1,928.47	7.86	6.64	57.02	4,970.61	-3,492.81	5,959.26	5,945.00	14.26	417.917		
2,100.00	2,070.77	2,032.37	2,032.26	8.43	7.00	57.27	4,969.78	-3,494.22	5,942.10	5,926.96	15.14	392.385		
2,200.00	2,165.93	2,148.99	2,148.85	9.02	7.41	57.54	4,967.98	-3,496.57	5,924.78	5,908.69	16.09	368.340		
2,300.00	2,261.10	2,244.00	2,243.83	9.62	7.75	57.76	4,966.35	-3,498.41	5,907.36	5,890.40	16.96	348.265		
2,400.00	2,356.26	2,333.96	2,333.75	10.23	8.06	57.97	4,964.79	-3,500.16	5,890.03	5,872.20	17.83	330.326		
2,500.00	2,451.43	2,421.23	2,421.00	10.84	8.37	58.17	4,963.46	-3,502.03	5,873.06	5,854.36	18.70	314.094		
2,600.00	2,546.59	2,527.75	2,527.44	11.46	8.74	58.41	4,961.02	-3,504.99	5,855.85	5,836.21	19.64	298.167		
2,700.00	2,641.76	2,600.00	2,599.67	12.09	9.00	58.58	4,960.03	-3,506.40	5,839.08	5,818.61	20.47	285.268		
2,800.00	2,736.92	2,699.10	2,698.73	12.72	9.35	58.81	4,958.49	-3,508.90	5,822.55	5,801.16	21.39	272.147		
2,900.00	2,832.09	2,750.00	2,749.61	13.35	9.52	58.93	4,957.89	-3,510.12	5,806.40	5,784.24	22.16	261.994		
3,000.00	2,927.25	2,825.33	2,824.92	13.99	9.79	59.11	4,957.77	-3,511.79	5,791.03	5,768.01	23.02	251.606		
3,100.00	3,022.42	2,911.14	2,910.71	14.63	10.09	59.33	4,957.70	-3,513.75	5,775.87	5,751.96	23.91	241.569		
3,200.00	3,117.58	3,009.17	3,008.73	15.27	10.43	59.57	4,958.04	-3,515.45	5,760.90	5,736.05	24.85	231.841		
3,300.00	3,212.75	3,090.59	3,090.13	15.91	10.71	59.78	4,958.39	-3,516.85	5,746.10	5,720.37	25.73	223.282		
3,400.00	3,307.91	3,158.87	3,158.40	16.56	10.95	59.96	4,959.05	-3,518.04	5,731.85	5,705.27	26.58	215.645		
3,500.00	3,403.08	3,266.08	3,265.58	17.20	11.33	60.23	4,960.20	-3,520.00	5,717.86	5,690.30	27.56	207.466		
3,600.00	3,498.24	3,350.00	3,349.49	17.85	11.62	60.45	4,961.11	-3,521.39	5,703.91	5,675.44	28.47	200.380		
3,700.00	3,593.41	3,435.51	3,434.97	18.50	11.92	60.68	4,962.22	-3,523.19	5,690.44	5,661.06	29.38	193.692		
3,800.00	3,688.57	3,561.86	3,561.30	19.15	12.36	61.01	4,963.27	-3,525.09	5,676.32	5,645.89	30.43	186.518		
3,900.00	3,783.74	3,661.22	3,660.64	19.81	12.71	61.27	4,964.28	-3,526.82	5,662.71	5,631.31	31.40	180.347		
4,000.00	3,878.90	3,800.00	3,799.41	20.46	13.19	61.65	4,965.56	-3,527.75	5,648.64	5,616.14	32.50	173.808		
4,100.00	3,974.07	3,863.39	3,862.79	21.11	13.41	61.84	4,966.44	-3,527.43	5,634.54	5,601.19	33.35	168.942		
4,200.00	4,069.23	3,950.00	3,949.39	21.77	13.71	62.09	4,968.01	-3,526.85	5,620.87	5,586.58	34.29	163.945		
4,300.00	4,164.40	4,071.04	4,070.39	22.42	14.13	62.45	4,970.62	-3,525.89	5,607.65	5,572.32	35.34	158.693		
4,400.00	4,259.56	4,192.77	4,192.09	23.08	14.55	62.82	4,972.66	-3,523.95	5,593.75	5,557.35	36.39	153.704		
4,500.00	4,354.73	4,267.22	4,266.51	23.74	14.81	63.05	4,974.06	-3,522.45	5,579.95	5,542.66	37.30	149.616		
4,600.00	4,449.89	4,390.40	4,389.64	24.39	15.24	63.43	4,976.13	-3,519.93	5,566.15	5,527.79	38.36	145.097		
4,700.00	4,545.06	4,492.55	4,491.77	25.05	15.59	63.75	4,977.64	-3,517.93	5,552.39	5,513.03	39.36	141.067		
4,800.00	4,640.22	4,605.48	4,604.67	25.71	15.99	64.10	4,978.94	-3,515.69	5,538.50	5,498.11	40.40	137.107		
4,900.00	4,735.39	4,672.99	4,672.15	26.37	16.22	64.31	4,979.78	-3,514.19	5,524.75	5,483.46	41.28	133.821		
5,000.00	4,830.55	4,767.86	4,766.99	27.03	16.56	64.62	4,981.43	-3,511.95	5,511.51	5,469.25	42.27	130.399		
5,100.00	4,925.72	4,870.44	4,869.54	27.69	16.91	64.94	4,982.86	-3,509.84	5,498.26	5,454.99	43.27	127.054		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT PRONGHORN 31-8 (GYRO) - OWB - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 50-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	4,978.88	4,977.96	28.35	17.29	65.28	4,983.83	-3,508.34	5,485.03	5,440.73	44.30	123.807		
5,300.00	5,116.05	5,050.00	5,049.08	29.01	17.54	65.49	4,984.01	-3,508.14	5,471.87	5,426.66	45.21	121.032		
5,400.00	5,211.21	5,137.79	5,136.87	29.67	17.85	65.75	4,984.53	-3,508.29	5,459.29	5,413.11	46.17	118.237		
5,500.00	5,306.38	5,200.00	5,199.07	30.33	18.06	65.93	4,985.10	-3,508.57	5,447.21	5,400.16	47.05	115.768		
5,600.00	5,401.54	5,295.86	5,294.91	30.99	18.40	66.22	4,986.33	-3,509.56	5,435.85	5,387.80	48.04	113.141		
5,700.00	5,496.71	5,360.30	5,359.35	31.65	18.62	62.20	4,987.05	-3,510.33	5,424.40	5,375.47	48.93	110.853		
5,800.00	5,591.13	5,438.73	5,437.76	32.30	18.90	34.55	4,988.18	-3,511.50	5,403.59	5,353.79	49.81	108.489		
5,900.00	5,682.22	5,543.13	5,542.14	32.92	19.26	16.29	4,989.63	-3,513.07	5,367.50	5,316.85	50.65	105.970		
6,000.00	5,767.23	5,618.19	5,617.18	33.50	19.52	4.17	4,990.64	-3,514.34	5,317.27	5,266.00	51.26	103.724		
6,100.00	5,843.56	5,675.51	5,674.49	34.04	19.72	-5.53	4,991.58	-3,515.55	5,254.65	5,202.97	51.68	101.683		
6,200.00	5,908.90	5,734.67	5,733.62	34.53	19.93	-15.36	4,992.67	-3,516.77	5,181.34	5,129.39	51.95	99.737		
6,300.00	5,961.25	5,772.19	5,771.12	34.99	20.06	-27.46	4,993.45	-3,517.56	5,099.59	5,047.58	52.01	98.055		
6,400.00	5,999.04	5,800.00	5,798.92	35.42	20.16	-44.14	4,994.14	-3,518.16	5,011.94	4,960.05	51.89	96.579		
6,500.00	6,021.11	5,818.31	5,817.22	35.83	20.22	-66.07	4,994.61	-3,518.58	4,921.04	4,869.41	51.63	95.322		
6,600.00	6,027.00	5,826.16	5,825.06	36.24	20.25	-85.39	4,994.82	-3,518.77	4,829.68	4,778.46	51.22	94.295		
6,700.00	6,027.00	5,828.54	5,827.44	36.68	20.26	-85.46	4,994.88	-3,518.82	4,738.98	4,688.22	50.77	93.351		
6,800.00	6,027.00	5,830.91	5,829.81	37.20	20.27	-85.53	4,994.94	-3,518.88	4,648.66	4,598.35	50.32	92.390		
6,900.00	6,027.00	5,833.28	5,832.18	37.80	20.27	-85.59	4,995.00	-3,518.94	4,558.75	4,508.88	49.87	91.408		
7,000.00	6,027.00	5,835.64	5,834.54	38.47	20.28	-85.66	4,995.06	-3,519.00	4,469.26	4,419.82	49.44	90.400		
7,100.00	6,027.00	5,837.99	5,836.89	39.21	20.29	-85.73	4,995.12	-3,519.06	4,380.23	4,331.21	49.02	89.357		
7,200.00	6,027.00	5,840.34	5,839.23	40.02	20.30	-85.79	4,995.18	-3,519.12	4,291.67	4,243.06	48.62	88.273		
7,300.00	6,027.00	5,842.68	5,841.57	40.89	20.31	-85.86	4,995.24	-3,519.18	4,203.63	4,155.39	48.24	87.139		
7,400.00	6,027.00	5,845.01	5,843.91	41.83	20.32	-85.93	4,995.30	-3,519.24	4,116.14	4,068.24	47.89	85.943		
7,500.00	6,027.00	5,847.34	5,846.23	42.83	20.32	-85.99	4,995.36	-3,519.29	4,029.22	3,981.64	47.58	84.676		
7,600.00	6,027.00	5,850.00	5,848.89	43.88	20.33	-86.07	4,995.43	-3,519.36	3,942.93	3,895.60	47.32	83.322		
7,700.00	6,027.00	5,850.00	5,848.89	44.99	20.33	-86.07	4,995.43	-3,519.36	3,857.29	3,810.18	47.11	81.882		
7,800.00	6,027.00	5,850.00	5,848.89	46.14	20.33	-86.07	4,995.43	-3,519.36	3,772.36	3,725.40	46.96	80.329		
7,900.00	6,027.00	5,850.00	5,848.89	47.33	20.33	-86.07	4,995.43	-3,519.36	3,688.19	3,641.30	46.89	78.652		
8,000.00	6,027.00	5,850.00	5,848.89	48.57	20.33	-86.07	4,995.43	-3,519.36	3,604.82	3,557.91	46.91	76.840		
8,100.00	6,027.00	5,850.00	5,848.89	49.84	20.33	-86.07	4,995.43	-3,519.36	3,522.33	3,475.29	47.04	74.884		
8,200.00	6,027.00	5,859.61	5,858.49	51.15	20.37	-86.34	4,995.68	-3,519.61	3,440.73	3,393.44	47.29	72.756		
8,300.00	6,027.00	5,861.38	5,860.26	52.48	20.37	-86.39	4,995.73	-3,519.66	3,360.15	3,312.49	47.66	70.500		
8,400.00	6,027.00	5,863.19	5,862.07	53.85	20.38	-86.44	4,995.78	-3,519.71	3,280.64	3,232.46	48.17	68.101		
8,500.00	6,027.00	5,865.05	5,863.92	55.24	20.39	-86.50	4,995.83	-3,519.76	3,202.27	3,153.43	48.84	65.571		
8,600.00	6,027.00	5,866.95	5,865.82	56.65	20.39	-86.55	4,995.89	-3,519.81	3,125.13	3,075.47	49.66	62.926		
8,700.00	6,027.00	5,868.89	5,867.77	58.08	20.40	-86.60	4,995.94	-3,519.86	3,049.33	2,998.66	50.66	60.189		
8,800.00	6,027.00	5,870.89	5,869.76	59.54	20.41	-86.66	4,996.00	-3,519.91	2,974.95	2,923.11	51.84	57.387		
8,900.00	6,027.00	5,872.93	5,871.80	61.01	20.41	-86.72	4,996.06	-3,519.96	2,902.10	2,848.90	53.20	54.550		
9,000.00	6,027.00	5,875.03	5,873.90	62.50	20.42	-86.78	4,996.12	-3,520.02	2,830.92	2,776.17	54.75	51.707		
9,100.00	6,027.00	5,877.18	5,876.04	64.01	20.43	-86.84	4,996.19	-3,520.08	2,761.52	2,705.03	56.49	48.889		
9,200.00	6,027.00	5,879.38	5,878.25	65.53	20.44	-86.90	4,996.25	-3,520.14	2,694.04	2,635.63	58.41	46.122		
9,300.00	6,027.00	5,881.65	5,880.51	67.06	20.44	-86.97	4,996.32	-3,520.20	2,628.63	2,568.11	60.52	43.433		
9,400.00	6,027.00	5,883.97	5,882.83	68.61	20.45	-87.03	4,996.40	-3,520.26	2,565.45	2,502.63	62.82	40.841		
9,500.00	6,027.00	5,886.36	5,885.22	70.17	20.46	-87.10	4,996.47	-3,520.32	2,504.67	2,439.38	65.29	38.364		
9,600.00	6,027.00	5,888.81	5,887.67	71.73	20.47	-87.17	4,996.55	-3,520.39	2,446.46	2,378.53	67.93	36.015		
9,700.00	6,027.00	5,891.33	5,890.18	73.31	20.48	-87.24	4,996.63	-3,520.46	2,391.01	2,320.28	70.73	33.805		
9,800.00	6,027.00	5,893.92	5,892.77	74.90	20.49	-87.32	4,996.72	-3,520.53	2,338.53	2,264.85	73.68	31.739		
9,900.00	6,027.00	5,900.13	5,898.97	76.50	20.51	-87.49	4,996.93	-3,520.70	2,289.21	2,212.44	76.77	29.820		
10,000.00	6,027.00	5,901.06	5,899.91	78.10	20.51	-87.52	4,996.96	-3,520.72	2,243.26	2,163.29	79.97	28.052		
10,100.00	6,027.00	5,901.06	5,899.91	79.71	20.51	-87.52	4,996.96	-3,520.72	2,200.89	2,117.63	83.26	26.433		
10,200.00	6,027.00	5,901.06	5,899.91	81.33	20.51	-87.52	4,996.96	-3,520.72	2,162.32	2,075.69	86.63	24.960		
10,300.00	6,027.00	5,901.06	5,899.91	82.96	20.51	-87.52	4,996.96	-3,520.72	2,127.76	2,037.71	90.05	23.630		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT PRONGHORN 31-8 (GYRO) - OWB - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 50-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,901.06	5,899.91	84.59	20.51	-87.52	4,996.96	-3,520.72	2,097.40	2,003.92	93.48	22.438		
10,500.00	6,027.00	5,901.06	5,899.91	86.23	20.51	-87.52	4,996.96	-3,520.72	2,071.42	1,974.53	96.89	21.379		
10,600.00	6,027.00	5,901.06	5,899.91	87.87	20.51	-87.52	4,996.96	-3,520.72	2,050.00	1,949.75	100.26	20.447		
10,700.00	6,027.00	5,901.06	5,899.91	89.52	20.51	-87.52	4,996.96	-3,520.72	2,033.28	1,929.74	103.54	19.637		
10,800.00	6,027.00	5,901.06	5,899.91	91.17	20.51	-87.52	4,996.96	-3,520.72	2,021.37	1,914.66	106.71	18.943		
10,900.00	6,027.00	5,901.06	5,899.91	92.83	20.51	-87.52	4,996.96	-3,520.72	2,014.36	1,904.63	109.73	18.357		
10,991.42	6,027.00	5,901.06	5,899.91	94.35	20.51	-87.52	4,996.96	-3,520.72	2,012.29	1,899.95	112.34	17.912 CC		
11,000.00	6,027.00	5,901.06	5,899.91	94.49	20.51	-87.52	4,996.96	-3,520.72	2,012.31	1,899.73	112.58	17.875 ES		
11,100.00	6,027.00	5,901.06	5,899.91	96.16	20.51	-87.52	4,996.96	-3,520.72	2,015.22	1,900.00	115.22	17.490		
11,200.00	6,027.00	5,901.06	5,899.91	97.83	20.51	-87.52	4,996.96	-3,520.72	2,023.07	1,905.43	117.65	17.196		
11,300.00	6,027.00	5,901.06	5,899.91	99.50	20.51	-87.52	4,996.96	-3,520.72	2,035.81	1,915.98	119.83	16.989		
11,400.00	6,027.00	5,901.06	5,899.91	101.18	20.51	-87.52	4,996.96	-3,520.72	2,053.35	1,931.57	121.78	16.861		
11,500.00	6,027.00	5,901.06	5,899.91	102.86	20.51	-87.52	4,996.96	-3,520.72	2,075.56	1,952.08	123.48	16.809 SF		
11,600.00	6,027.00	5,901.06	5,899.91	104.54	20.51	-87.52	4,996.96	-3,520.72	2,102.30	1,977.37	124.94	16.827		
11,700.00	6,027.00	5,901.06	5,899.91	106.23	20.51	-87.52	4,996.96	-3,520.72	2,133.40	2,007.24	126.16	16.910		
11,800.00	6,027.00	5,901.06	5,899.91	107.92	20.51	-87.52	4,996.96	-3,520.72	2,168.67	2,041.51	127.15	17.056		
11,900.00	6,027.00	5,901.06	5,899.91	109.61	20.51	-87.52	4,996.96	-3,520.72	2,207.90	2,079.97	127.94	17.258		
12,000.00	6,027.00	5,901.06	5,899.91	111.31	20.51	-87.52	4,996.96	-3,520.72	2,250.90	2,122.37	128.53	17.513		
12,100.00	6,027.00	5,901.06	5,899.91	113.00	20.51	-87.52	4,996.96	-3,520.72	2,297.45	2,168.51	128.94	17.819		
12,200.00	6,027.00	5,901.06	5,899.91	114.71	20.51	-87.52	4,996.96	-3,520.72	2,347.34	2,218.15	129.18	18.170		
12,300.00	6,027.00	5,901.06	5,899.91	116.41	20.51	-87.52	4,996.96	-3,520.72	2,400.35	2,271.06	129.29	18.565		
12,400.00	6,027.00	5,901.06	5,899.91	118.11	20.51	-87.52	4,996.96	-3,520.72	2,456.30	2,327.03	129.27	19.001		
12,500.00	6,027.00	5,901.06	5,899.91	119.82	20.51	-87.52	4,996.96	-3,520.72	2,514.98	2,385.83	129.15	19.474		
12,600.00	6,027.00	5,901.06	5,899.91	121.53	20.51	-87.52	4,996.96	-3,520.72	2,576.21	2,447.28	128.93	19.982		
12,700.00	6,027.00	5,901.06	5,899.91	123.24	20.51	-87.52	4,996.96	-3,520.72	2,639.80	2,511.18	128.63	20.523		
12,800.00	6,027.00	5,901.06	5,899.91	124.95	20.51	-87.52	4,996.96	-3,520.72	2,705.60	2,577.34	128.26	21.094		
12,900.00	6,027.00	5,901.06	5,899.91	126.66	20.51	-87.52	4,996.96	-3,520.72	2,773.45	2,645.61	127.84	21.695		
13,000.00	6,027.00	5,901.06	5,899.91	128.38	20.51	-87.52	4,996.96	-3,520.72	2,843.19	2,715.81	127.37	22.322		
13,100.00	6,027.00	5,901.06	5,899.91	130.10	20.51	-87.52	4,996.96	-3,520.72	2,914.69	2,787.82	126.87	22.974		
13,200.00	6,027.00	5,901.06	5,899.91	131.82	20.51	-87.52	4,996.96	-3,520.72	2,987.83	2,861.50	126.34	23.649		
13,300.00	6,027.00	5,901.06	5,899.91	133.54	20.51	-87.52	4,996.96	-3,520.72	3,062.49	2,936.71	125.78	24.347		
13,400.00	6,027.00	5,901.06	5,899.91	135.26	20.51	-87.52	4,996.96	-3,520.72	3,138.56	3,013.35	125.22	25.065		
13,500.00	6,027.00	5,901.06	5,899.91	136.98	20.51	-87.52	4,996.96	-3,520.72	3,215.95	3,091.31	124.63	25.803		
13,600.00	6,027.00	5,901.06	5,899.91	138.71	20.51	-87.52	4,996.96	-3,520.72	3,294.54	3,170.50	124.05	26.559		
13,700.00	6,027.00	5,901.06	5,899.91	140.43	20.51	-87.52	4,996.96	-3,520.72	3,374.28	3,250.82	123.46	27.332		
13,800.00	6,027.00	5,901.06	5,899.91	142.16	20.51	-87.52	4,996.96	-3,520.72	3,455.06	3,332.20	122.87	28.120		
13,900.00	6,027.00	5,901.06	5,899.91	143.89	20.51	-87.52	4,996.96	-3,520.72	3,536.83	3,414.55	122.28	28.924		
14,000.00	6,027.00	5,901.06	5,899.91	145.62	20.51	-87.52	4,996.96	-3,520.72	3,619.51	3,497.82	121.69	29.743		
14,100.00	6,027.00	5,901.06	5,899.91	147.35	20.51	-87.52	4,996.96	-3,520.72	3,703.05	3,581.94	121.12	30.574		
14,200.00	6,027.00	5,901.06	5,899.91	149.08	20.51	-87.52	4,996.96	-3,520.72	3,787.39	3,666.84	120.55	31.418		
14,300.00	6,027.00	5,901.06	5,899.91	150.81	20.51	-87.52	4,996.96	-3,520.72	3,872.47	3,752.49	119.99	32.274		
14,400.00	6,027.00	5,901.06	5,899.91	152.54	20.51	-87.52	4,996.96	-3,520.72	3,958.25	3,838.82	119.43	33.142		
14,500.00	6,027.00	5,901.06	5,899.91	154.28	20.51	-87.52	4,996.96	-3,520.72	4,044.68	3,925.79	118.89	34.019		
14,600.00	6,027.00	5,901.06	5,899.91	156.01	20.51	-87.52	4,996.96	-3,520.72	4,131.73	4,013.37	118.36	34.907		
14,700.00	6,027.00	5,901.06	5,899.91	157.75	20.51	-87.52	4,996.96	-3,520.72	4,219.35	4,101.51	117.84	35.805		
14,800.00	6,027.00	5,901.06	5,899.91	159.49	20.51	-87.52	4,996.96	-3,520.72	4,307.51	4,190.17	117.34	36.711		
14,900.00	6,027.00	5,901.06	5,899.91	161.22	20.51	-87.52	4,996.96	-3,520.72	4,396.17	4,279.33	116.84	37.625		
15,000.00	6,027.00	5,901.06	5,899.91	162.96	20.51	-87.52	4,996.96	-3,520.72	4,485.32	4,368.96	116.36	38.548		
15,100.00	6,027.00	5,901.06	5,899.91	164.70	20.51	-87.52	4,996.96	-3,520.72	4,574.91	4,459.02	115.88	39.478		
15,200.00	6,027.00	5,901.06	5,899.91	166.44	20.51	-87.52	4,996.96	-3,520.72	4,664.92	4,549.50	115.42	40.415		
15,300.00	6,027.00	5,901.06	5,899.91	168.18	20.51	-87.52	4,996.96	-3,520.72	4,755.33	4,640.36	114.98	41.359		
15,400.00	6,027.00	5,901.06	5,899.91	169.93	20.51	-87.52	4,996.96	-3,520.72	4,846.12	4,731.59	114.54	42.310		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 50-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.00	6,027.00	5,901.06	5,899.91	171.67	20.51	-87.52	4,996.96	-3,520.72	4,937.27	4,823.16	114.11	43.266		
15,600.00	6,027.00	5,901.06	5,899.91	173.41	20.51	-87.52	4,996.96	-3,520.72	5,028.75	4,915.05	113.70	44.228		
15,700.00	6,027.00	5,901.06	5,899.91	175.15	20.51	-87.52	4,996.96	-3,520.72	5,120.55	5,007.26	113.30	45.196		
15,800.00	6,027.00	5,901.06	5,899.91	176.90	20.51	-87.52	4,996.96	-3,520.72	5,212.66	5,099.75	112.90	46.169		
15,900.00	6,027.00	5,901.06	5,899.91	178.64	20.51	-87.52	4,996.96	-3,520.72	5,305.05	5,192.52	112.52	47.147		
16,000.00	6,027.00	5,901.06	5,899.91	180.39	20.51	-87.52	4,996.96	-3,520.72	5,397.71	5,285.55	112.15	48.129		
16,100.00	6,027.00	5,901.06	5,899.91	182.13	20.51	-87.52	4,996.96	-3,520.72	5,490.62	5,378.83	111.79	49.116		
16,200.00	6,027.00	5,901.06	5,899.91	183.88	20.51	-87.52	4,996.96	-3,520.72	5,583.79	5,472.35	111.44	50.107		
16,300.00	6,027.00	5,901.06	5,899.91	185.63	20.51	-87.52	4,996.96	-3,520.72	5,677.18	5,566.08	111.10	51.101		
16,400.00	6,027.00	5,901.06	5,899.91	187.38	20.51	-87.52	4,996.96	-3,520.72	5,770.80	5,660.03	110.76	52.100		
16,500.00	6,027.00	5,901.06	5,899.91	189.12	20.51	-87.52	4,996.96	-3,520.72	5,864.62	5,754.18	110.44	53.102		
16,600.00	6,027.00	5,901.06	5,899.91	190.87	20.51	-87.52	4,996.96	-3,520.72	5,958.65	5,848.53	110.13	54.108		
16,700.00	6,027.00	5,901.06	5,899.91	192.62	20.51	-87.52	4,996.96	-3,520.72	6,052.87	5,943.05	109.82	55.116		
16,795.97	6,027.00	5,901.06	5,899.91	194.30	20.51	-87.52	4,996.96	-3,520.72	6,143.46	6,033.93	109.53	56.087		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT PRONGHORN 32-8 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	62.00	62.00	0.27	0.19	-43.37	3,749.03	-3,541.87	5,157.52	5,157.06	0.46	N/A		
200.00	200.00	162.00	162.00	0.63	0.53	-43.37	3,749.03	-3,541.87	5,157.52	5,156.37	1.16	4,462.796		
300.00	300.00	262.00	262.00	0.99	0.88	-43.37	3,749.03	-3,541.87	5,157.52	5,155.66	1.86	2,766.853		
400.00	400.00	362.00	362.00	1.34	1.23	-43.37	3,749.03	-3,541.87	5,157.52	5,154.95	2.57	2,004.939		
500.00	500.00	462.00	462.00	1.70	1.58	-43.37	3,749.03	-3,541.87	5,157.52	5,154.24	3.28	1,572.043		
600.00	600.00	562.00	562.00	2.06	1.93	-43.37	3,749.03	-3,541.87	5,157.52	5,153.53	3.99	1,292.889		
700.00	700.00	662.00	662.00	2.42	2.28	-43.37	3,749.03	-3,541.87	5,157.52	5,152.82	4.70	1,097.926		
800.00	800.00	762.00	762.00	2.78	2.63	-43.37	3,749.03	-3,541.87	5,157.52	5,152.12	5.41	954.057		
900.00	900.00	862.00	862.00	3.14	2.98	-43.37	3,749.03	-3,541.87	5,157.52	5,151.41	6.11	843.525		
1,000.00	999.98	961.98	961.98	3.49	3.33	45.91	3,749.03	-3,541.87	5,156.31	5,149.49	6.81	756.683		
1,100.00	1,099.84	1,061.84	1,061.84	3.83	3.68	46.01	3,749.03	-3,541.87	5,152.67	5,145.16	7.51	686.120		
1,200.00	1,199.45	1,161.45	1,161.45	4.19	4.03	46.17	3,749.03	-3,541.87	5,146.61	5,138.40	8.21	626.841		
1,300.00	1,298.70	1,260.70	1,260.70	4.55	4.38	46.39	3,749.03	-3,541.87	5,138.15	5,129.24	8.92	576.203		
1,400.00	1,397.47	1,359.47	1,359.47	4.94	4.73	46.67	3,749.03	-3,541.87	5,127.32	5,117.69	9.63	532.286		
1,500.00	1,495.62	1,457.62	1,457.62	5.34	5.07	47.02	3,749.03	-3,541.87	5,114.14	5,103.78	10.36	493.677		
1,600.00	1,593.06	1,555.06	1,555.06	5.78	5.41	47.43	3,749.03	-3,541.87	5,098.65	5,087.55	11.10	459.318		
1,700.00	1,689.64	1,651.64	1,651.64	6.24	5.75	47.91	3,749.03	-3,541.87	5,080.89	5,069.03	11.86	428.411		
1,800.00	1,785.27	1,747.27	1,747.27	6.75	6.09	48.44	3,749.03	-3,541.87	5,060.92	5,048.28	12.64	400.294		
1,900.00	1,880.44	1,842.44	1,842.44	7.30	6.42	48.69	3,749.03	-3,541.87	5,040.03	5,026.59	13.44	374.959		
2,000.00	1,975.60	1,937.60	1,937.60	7.86	6.76	48.95	3,749.03	-3,541.87	5,019.24	5,004.99	14.26	352.085		
2,100.00	2,070.77	2,032.77	2,032.77	8.43	7.09	49.20	3,749.03	-3,541.87	4,998.55	4,983.47	15.08	331.396		
2,200.00	2,165.93	2,127.93	2,127.93	9.02	7.42	49.47	3,749.03	-3,541.87	4,977.97	4,962.05	15.92	312.640		
2,300.00	2,261.10	2,223.10	2,223.10	9.62	7.76	49.73	3,749.03	-3,541.87	4,957.49	4,940.72	16.77	295.590		
2,400.00	2,356.26	2,318.26	2,318.26	10.23	8.09	49.99	3,749.03	-3,541.87	4,937.12	4,919.49	17.63	280.049		
2,500.00	2,451.43	2,413.43	2,413.43	10.84	8.42	50.26	3,749.03	-3,541.87	4,916.85	4,898.36	18.50	265.844		
2,600.00	2,546.59	2,508.59	2,508.59	11.46	8.76	50.53	3,749.03	-3,541.87	4,896.70	4,877.33	19.37	252.821		
2,700.00	2,641.76	2,603.76	2,603.76	12.09	9.09	50.80	3,749.03	-3,541.87	4,876.65	4,856.40	20.25	240.851		
2,800.00	2,736.92	2,698.92	2,698.92	12.72	9.42	51.07	3,749.03	-3,541.87	4,856.72	4,835.58	21.13	229.817		
2,900.00	2,832.09	2,794.09	2,794.09	13.35	9.76	51.34	3,749.03	-3,541.87	4,836.90	4,814.87	22.02	219.622		
3,000.00	2,927.25	2,889.25	2,889.25	13.99	10.09	51.62	3,749.03	-3,541.87	4,817.19	4,794.27	22.92	210.177		
3,100.00	3,022.42	2,984.42	2,984.42	14.63	10.43	51.90	3,749.03	-3,541.87	4,797.60	4,773.78	23.82	201.407		
3,200.00	3,117.58	3,079.58	3,079.58	15.27	10.76	52.18	3,749.03	-3,541.87	4,778.12	4,753.40	24.73	193.246		
3,300.00	3,212.75	3,174.75	3,174.75	15.91	11.09	52.47	3,749.03	-3,541.87	4,758.77	4,733.13	25.64	185.634		
3,400.00	3,307.91	3,269.91	3,269.91	16.56	11.43	52.75	3,749.03	-3,541.87	4,739.53	4,712.98	26.55	178.520		
3,500.00	3,403.08	3,365.08	3,365.08	17.20	11.76	53.04	3,749.03	-3,541.87	4,720.42	4,692.95	27.47	171.860		
3,600.00	3,498.24	3,460.24	3,460.24	17.85	12.09	53.33	3,749.03	-3,541.87	4,701.43	4,673.04	28.39	165.612		
3,700.00	3,593.41	3,555.41	3,555.41	18.50	12.43	53.62	3,749.03	-3,541.87	4,682.56	4,653.25	29.31	159.741		
3,800.00	3,688.57	3,650.57	3,650.57	19.15	12.76	53.92	3,749.03	-3,541.87	4,663.82	4,633.58	30.24	154.215		
3,900.00	3,783.74	3,745.74	3,745.74	19.81	13.10	54.21	3,749.03	-3,541.87	4,645.20	4,614.03	31.17	149.006		
4,000.00	3,878.90	3,840.90	3,840.90	20.46	13.43	54.51	3,749.03	-3,541.87	4,626.72	4,594.61	32.11	144.088		
4,100.00	3,974.07	3,936.07	3,936.07	21.11	13.76	54.81	3,749.03	-3,541.87	4,608.37	4,575.32	33.05	139.438		
4,200.00	4,069.23	4,031.23	4,031.23	21.77	14.10	55.11	3,749.03	-3,541.87	4,590.15	4,556.15	33.99	135.036		
4,300.00	4,164.40	4,126.40	4,126.40	22.42	14.43	55.42	3,749.03	-3,541.87	4,572.06	4,537.12	34.94	130.864		
4,400.00	4,259.56	4,221.56	4,221.56	23.08	14.76	55.73	3,749.03	-3,541.87	4,554.11	4,518.22	35.89	126.904		
4,500.00	4,354.73	4,316.73	4,316.73	23.74	15.10	56.04	3,749.03	-3,541.87	4,536.29	4,499.45	36.84	123.141		
4,600.00	4,449.89	4,411.89	4,411.89	24.39	15.43	56.35	3,749.03	-3,541.87	4,518.61	4,480.82	37.79	119.562		
4,700.00	4,545.06	4,507.06	4,507.06	25.05	15.76	56.66	3,749.03	-3,541.87	4,501.08	4,462.33	38.75	116.153		
4,800.00	4,640.22	4,602.22	4,602.22	25.71	16.10	56.98	3,749.03	-3,541.87	4,483.68	4,443.97	39.71	112.904		
4,900.00	4,735.39	4,697.39	4,697.39	26.37	16.43	57.30	3,749.03	-3,541.87	4,466.43	4,425.76	40.68	109.805		
5,000.00	4,830.55	4,792.55	4,792.55	27.03	16.77	57.62	3,749.03	-3,541.87	4,449.33	4,407.68	41.64	106.845		
5,100.00	4,925.72	4,887.72	4,887.72	27.69	17.10	57.95	3,749.03	-3,541.87	4,432.37	4,389.75	42.61	104.015		
5,200.00	5,020.88	4,982.88	4,982.88	28.35	17.43	58.27	3,749.03	-3,541.87	4,415.56	4,371.97	43.59	101.308		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT PRONGHORN 32-8 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,078.05	5,078.05	29.01	17.77	58.60	3,749.03	-3,541.87	4,398.90	4,354.34	44.56	98.717		
5,400.00	5,211.21	5,173.21	5,173.21	29.67	18.10	58.93	3,749.03	-3,541.87	4,382.39	4,336.85	45.54	96.234		
5,500.00	5,306.38	5,268.38	5,268.38	30.33	18.43	59.26	3,749.03	-3,541.87	4,366.03	4,319.51	46.52	93.853		
5,600.00	5,401.54	5,363.54	5,363.54	30.99	18.77	59.60	3,749.03	-3,541.87	4,349.84	4,302.33	47.50	91.569		
5,700.00	5,496.71	5,458.71	5,458.71	31.65	19.10	55.68	3,749.03	-3,541.87	4,333.66	4,285.17	48.49	89.375		
5,800.00	5,591.13	5,553.13	5,553.13	32.30	19.43	27.65	3,749.03	-3,541.87	4,308.37	4,258.98	49.40	87.222		
5,900.00	5,682.22	5,644.22	5,644.22	32.92	19.75	8.70	3,749.03	-3,541.87	4,268.96	4,218.81	50.15	85.129		
6,000.00	5,767.23	5,729.23	5,729.23	33.50	20.05	-4.39	3,749.03	-3,541.87	4,216.55	4,165.83	50.72	83.131		
6,100.00	5,843.56	5,805.56	5,805.56	34.04	20.32	-15.45	3,749.03	-3,541.87	4,152.72	4,101.61	51.10	81.261		
6,200.00	5,908.90	5,870.90	5,870.90	34.53	20.55	-27.04	3,749.03	-3,541.87	4,079.47	4,028.19	51.28	79.548		
6,300.00	5,961.25	5,923.25	5,923.25	34.99	20.73	-40.93	3,749.03	-3,541.87	3,999.17	3,947.91	51.26	78.020		
6,400.00	5,999.04	5,961.04	5,961.04	35.42	20.86	-57.85	3,749.03	-3,541.87	3,914.44	3,863.40	51.04	76.699		
6,500.00	6,021.11	5,983.11	5,983.11	35.83	20.94	-76.14	3,749.03	-3,541.87	3,828.09	3,777.45	50.63	75.603		
6,600.00	6,027.00	5,989.00	5,989.00	36.24	20.96	-90.00	3,749.03	-3,541.87	3,742.97	3,692.88	50.08	74.737		
6,700.00	6,027.00	5,989.00	5,989.00	36.68	20.96	-90.00	3,749.03	-3,541.87	3,659.38	3,609.89	49.50	73.931		
6,800.00	6,027.00	5,989.00	5,989.00	37.20	20.96	-90.00	3,749.03	-3,541.87	3,576.65	3,527.71	48.94	73.088		
6,900.00	6,027.00	5,989.00	5,989.00	37.80	20.96	-90.00	3,749.03	-3,541.87	3,494.81	3,446.40	48.41	72.197		
7,000.00	6,027.00	5,989.00	5,989.00	38.47	20.96	-90.00	3,749.03	-3,541.87	3,413.94	3,366.02	47.92	71.241		
7,100.00	6,027.00	5,989.00	5,989.00	39.21	20.96	-90.00	3,749.03	-3,541.87	3,334.11	3,286.62	47.49	70.205		
7,200.00	6,027.00	5,989.00	5,989.00	40.02	20.96	-90.00	3,749.03	-3,541.87	3,255.40	3,208.26	47.13	69.067		
7,300.00	6,027.00	5,989.00	5,989.00	40.89	20.96	-90.00	3,749.03	-3,541.87	3,177.88	3,131.01	46.87	67.808		
7,400.00	6,027.00	5,989.00	5,989.00	41.83	20.96	-90.00	3,749.03	-3,541.87	3,101.65	3,054.94	46.71	66.409		
7,500.00	6,027.00	5,989.00	5,989.00	42.83	20.96	-90.00	3,749.03	-3,541.87	3,026.80	2,980.12	46.67	64.850		
7,600.00	6,027.00	5,989.00	5,989.00	43.88	20.96	-90.00	3,749.03	-3,541.87	2,953.44	2,906.65	46.79	63.118		
7,700.00	6,027.00	5,989.00	5,989.00	44.99	20.96	-90.00	3,749.03	-3,541.87	2,881.69	2,834.61	47.08	61.207		
7,800.00	6,027.00	5,989.00	5,989.00	46.14	20.96	-90.00	3,749.03	-3,541.87	2,811.66	2,764.10	47.56	59.121		
7,900.00	6,027.00	5,989.00	5,989.00	47.33	20.96	-90.00	3,749.03	-3,541.87	2,743.49	2,695.25	48.24	56.872		
8,000.00	6,027.00	5,989.00	5,989.00	48.57	20.96	-90.00	3,749.03	-3,541.87	2,677.32	2,628.18	49.14	54.484		
8,100.00	6,027.00	5,989.00	5,989.00	49.84	20.96	-90.00	3,749.03	-3,541.87	2,613.30	2,563.03	50.26	51.992		
8,200.00	6,027.00	5,989.00	5,989.00	51.15	20.96	-90.00	3,749.03	-3,541.87	2,551.59	2,499.98	51.62	49.434		
8,300.00	6,027.00	5,989.00	5,989.00	52.48	20.96	-90.00	3,749.03	-3,541.87	2,492.37	2,439.18	53.19	46.854		
8,400.00	6,027.00	5,989.00	5,989.00	53.85	20.96	-90.00	3,749.03	-3,541.87	2,435.82	2,380.83	54.99	44.292		
8,500.00	6,027.00	5,989.00	5,989.00	55.24	20.96	-90.00	3,749.03	-3,541.87	2,382.13	2,325.12	57.00	41.788		
8,600.00	6,027.00	5,989.00	5,989.00	56.65	20.96	-90.00	3,749.03	-3,541.87	2,331.49	2,272.27	59.21	39.374		
8,700.00	6,027.00	5,989.00	5,989.00	58.08	20.96	-90.00	3,749.03	-3,541.87	2,284.11	2,222.50	61.60	37.077		
8,800.00	6,027.00	5,989.00	5,989.00	59.54	20.96	-90.00	3,749.03	-3,541.87	2,240.19	2,176.03	64.16	34.917		
8,900.00	6,027.00	5,989.00	5,989.00	61.01	20.96	-90.00	3,749.03	-3,541.87	2,199.94	2,133.09	66.85	32.908		
9,000.00	6,027.00	5,989.00	5,989.00	62.50	20.96	-90.00	3,749.03	-3,541.87	2,163.57	2,093.91	69.66	31.058		
9,100.00	6,027.00	5,989.00	5,989.00	64.01	20.96	-90.00	3,749.03	-3,541.87	2,131.28	2,058.72	72.56	29.371		
9,200.00	6,027.00	5,989.00	5,989.00	65.53	20.96	-90.00	3,749.03	-3,541.87	2,103.25	2,027.72	75.52	27.848		
9,300.00	6,027.00	5,989.00	5,989.00	67.06	20.96	-90.00	3,749.03	-3,541.87	2,079.65	2,001.13	78.52	26.486		
9,400.00	6,027.00	5,989.00	5,989.00	68.61	20.96	-90.00	3,749.03	-3,541.87	2,060.64	1,979.13	81.51	25.281		
9,500.00	6,027.00	5,989.00	5,989.00	70.17	20.96	-90.00	3,749.03	-3,541.87	2,046.35	1,961.88	84.47	24.226		
9,600.00	6,027.00	5,989.00	5,989.00	71.73	20.96	-90.00	3,749.03	-3,541.87	2,036.88	1,949.51	87.37	23.314		
9,700.00	6,027.00	5,989.00	5,989.00	73.31	20.96	-90.00	3,749.03	-3,541.87	2,032.28	1,942.11	90.17	22.538		
9,743.50	6,027.00	5,989.00	5,989.00	74.00	20.96	-90.00	3,749.03	-3,541.87	2,031.81	1,940.46	91.36	22.240	CC	
9,800.00	6,027.00	5,989.00	5,989.00	74.90	20.96	-90.00	3,749.03	-3,541.87	2,032.60	1,939.74	92.86	21.890	ES	
9,900.00	6,027.00	5,989.00	5,989.00	76.50	20.96	-90.00	3,749.03	-3,541.87	2,037.83	1,942.44	95.40	21.361		
10,000.00	6,027.00	5,989.00	5,989.00	78.10	20.96	-90.00	3,749.03	-3,541.87	2,047.94	1,950.17	97.78	20.945		
10,100.00	6,027.00	5,989.00	5,989.00	79.71	20.96	-90.00	3,749.03	-3,541.87	2,062.86	1,962.88	99.98	20.633		
10,200.00	6,027.00	5,989.00	5,989.00	81.33	20.96	-90.00	3,749.03	-3,541.87	2,082.47	1,980.48	101.99	20.418		
10,300.00	6,027.00	5,989.00	5,989.00	82.96	20.96	-90.00	3,749.03	-3,541.87	2,106.65	2,002.84	103.81	20.293		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT PRONGHORN 32-8 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,989.00	5,989.00	84.59	20.96	-90.00	3,749.03	-3,541.87	2,135.25	2,029.81	105.43	20.252 SF		
10,500.00	6,027.00	5,989.00	5,989.00	86.23	20.96	-90.00	3,749.03	-3,541.87	2,168.08	2,061.22	106.87	20.288		
10,600.00	6,027.00	5,989.00	5,989.00	87.87	20.96	-90.00	3,749.03	-3,541.87	2,204.97	2,096.85	108.11	20.395		
10,700.00	6,027.00	5,989.00	5,989.00	89.52	20.96	-90.00	3,749.03	-3,541.87	2,245.70	2,136.52	109.18	20.568		
10,800.00	6,027.00	5,989.00	5,989.00	91.17	20.96	-90.00	3,749.03	-3,541.87	2,290.08	2,180.00	110.09	20.802		
10,900.00	6,027.00	5,989.00	5,989.00	92.83	20.96	-90.00	3,749.03	-3,541.87	2,337.90	2,227.06	110.84	21.093		
11,000.00	6,027.00	5,989.00	5,989.00	94.49	20.96	-90.00	3,749.03	-3,541.87	2,388.95	2,277.50	111.45	21.436		
11,100.00	6,027.00	5,989.00	5,989.00	96.16	20.96	-90.00	3,749.03	-3,541.87	2,443.03	2,331.10	111.93	21.826		
11,200.00	6,027.00	5,989.00	5,989.00	97.83	20.96	-90.00	3,749.03	-3,541.87	2,499.94	2,387.64	112.30	22.262		
11,300.00	6,027.00	5,989.00	5,989.00	99.50	20.96	-90.00	3,749.03	-3,541.87	2,559.49	2,446.93	112.56	22.738		
11,400.00	6,027.00	5,989.00	5,989.00	101.18	20.96	-90.00	3,749.03	-3,541.87	2,621.51	2,508.77	112.74	23.253		
11,500.00	6,027.00	5,989.00	5,989.00	102.86	20.96	-90.00	3,749.03	-3,541.87	2,685.82	2,572.98	112.83	23.803		
11,600.00	6,027.00	5,989.00	5,989.00	104.54	20.96	-90.00	3,749.03	-3,541.87	2,752.25	2,639.39	112.86	24.386		
11,700.00	6,027.00	5,989.00	5,989.00	106.23	20.96	-90.00	3,749.03	-3,541.87	2,820.68	2,707.85	112.83	25.000		
11,800.00	6,027.00	5,989.00	5,989.00	107.92	20.96	-90.00	3,749.03	-3,541.87	2,890.94	2,778.19	112.74	25.642		
11,900.00	6,027.00	5,989.00	5,989.00	109.61	20.96	-90.00	3,749.03	-3,541.87	2,962.91	2,850.29	112.62	26.309		
12,000.00	6,027.00	5,989.00	5,989.00	111.31	20.96	-90.00	3,749.03	-3,541.87	3,036.46	2,924.01	112.45	27.002		
12,100.00	6,027.00	5,989.00	5,989.00	113.00	20.96	-90.00	3,749.03	-3,541.87	3,111.50	2,999.24	112.26	27.717		
12,200.00	6,027.00	5,989.00	5,989.00	114.71	20.96	-90.00	3,749.03	-3,541.87	3,187.90	3,075.86	112.04	28.453		
12,300.00	6,027.00	5,989.00	5,989.00	116.41	20.96	-90.00	3,749.03	-3,541.87	3,265.58	3,153.78	111.80	29.210		
12,400.00	6,027.00	5,989.00	5,989.00	118.11	20.96	-90.00	3,749.03	-3,541.87	3,344.45	3,232.91	111.54	29.984		
12,500.00	6,027.00	5,989.00	5,989.00	119.82	20.96	-90.00	3,749.03	-3,541.87	3,424.42	3,313.15	111.27	30.776		
12,600.00	6,027.00	5,989.00	5,989.00	121.53	20.96	-90.00	3,749.03	-3,541.87	3,505.41	3,394.43	110.99	31.584		
12,700.00	6,027.00	5,989.00	5,989.00	123.24	20.96	-90.00	3,749.03	-3,541.87	3,587.37	3,476.67	110.70	32.407		
12,800.00	6,027.00	5,989.00	5,989.00	124.95	20.96	-90.00	3,749.03	-3,541.87	3,670.22	3,559.82	110.40	33.244		
12,900.00	6,027.00	5,989.00	5,989.00	126.66	20.96	-90.00	3,749.03	-3,541.87	3,753.91	3,643.81	110.10	34.095		
13,000.00	6,027.00	5,989.00	5,989.00	128.38	20.96	-90.00	3,749.03	-3,541.87	3,838.38	3,728.58	109.80	34.958		
13,100.00	6,027.00	5,989.00	5,989.00	130.10	20.96	-90.00	3,749.03	-3,541.87	3,923.58	3,814.08	109.50	35.832		
13,200.00	6,027.00	5,989.00	5,989.00	131.82	20.96	-90.00	3,749.03	-3,541.87	4,009.46	3,900.26	109.20	36.718		
13,300.00	6,027.00	5,989.00	5,989.00	133.54	20.96	-90.00	3,749.03	-3,541.87	4,095.98	3,987.08	108.90	37.613		
13,400.00	6,027.00	5,989.00	5,989.00	135.26	20.96	-90.00	3,749.03	-3,541.87	4,183.10	4,074.50	108.60	38.519		
13,500.00	6,027.00	5,989.00	5,989.00	136.98	20.96	-90.00	3,749.03	-3,541.87	4,270.79	4,162.49	108.30	39.434		
13,600.00	6,027.00	5,989.00	5,989.00	138.71	20.96	-90.00	3,749.03	-3,541.87	4,359.01	4,251.00	108.01	40.357		
13,700.00	6,027.00	5,989.00	5,989.00	140.43	20.96	-90.00	3,749.03	-3,541.87	4,447.72	4,340.00	107.72	41.288		
13,800.00	6,027.00	5,989.00	5,989.00	142.16	20.96	-90.00	3,749.03	-3,541.87	4,536.91	4,429.47	107.44	42.227		
13,900.00	6,027.00	5,989.00	5,989.00	143.89	20.96	-90.00	3,749.03	-3,541.87	4,626.54	4,519.37	107.16	43.173		
14,000.00	6,027.00	5,989.00	5,989.00	145.62	20.96	-90.00	3,749.03	-3,541.87	4,716.58	4,609.69	106.89	44.125		
14,100.00	6,027.00	5,989.00	5,989.00	147.35	20.96	-90.00	3,749.03	-3,541.87	4,807.02	4,700.40	106.62	45.084		
14,200.00	6,027.00	5,989.00	5,989.00	149.08	20.96	-90.00	3,749.03	-3,541.87	4,897.83	4,791.47	106.36	46.050		
14,300.00	6,027.00	5,989.00	5,989.00	150.81	20.96	-90.00	3,749.03	-3,541.87	4,988.99	4,882.89	106.10	47.020		
14,400.00	6,027.00	5,989.00	5,989.00	152.54	20.96	-90.00	3,749.03	-3,541.87	5,080.49	4,974.64	105.85	47.997		
14,500.00	6,027.00	5,989.00	5,989.00	154.28	20.96	-90.00	3,749.03	-3,541.87	5,172.30	5,066.69	105.60	48.978		
14,600.00	6,027.00	5,989.00	5,989.00	156.01	20.96	-90.00	3,749.03	-3,541.87	5,264.41	5,159.04	105.36	49.964		
14,700.00	6,027.00	5,989.00	5,989.00	157.75	20.96	-90.00	3,749.03	-3,541.87	5,356.80	5,251.67	105.13	50.954		
14,800.00	6,027.00	5,989.00	5,989.00	159.49	20.96	-90.00	3,749.03	-3,541.87	5,449.46	5,344.56	104.90	51.949		
14,900.00	6,027.00	5,989.00	5,989.00	161.22	20.96	-90.00	3,749.03	-3,541.87	5,542.37	5,437.70	104.68	52.948		
15,000.00	6,027.00	5,989.00	5,989.00	162.96	20.96	-90.00	3,749.03	-3,541.87	5,635.53	5,531.07	104.46	53.951		
15,100.00	6,027.00	5,989.00	5,989.00	164.70	20.96	-90.00	3,749.03	-3,541.87	5,728.92	5,624.67	104.24	54.957		
15,200.00	6,027.00	5,989.00	5,989.00	166.44	20.96	-90.00	3,749.03	-3,541.87	5,822.52	5,718.49	104.04	55.966		
15,300.00	6,027.00	5,989.00	5,989.00	168.18	20.96	-90.00	3,749.03	-3,541.87	5,916.34	5,812.51	103.83	56.979		
15,400.00	6,027.00	5,989.00	5,989.00	169.93	20.96	-90.00	3,749.03	-3,541.87	6,010.36	5,906.72	103.64	57.995		
15,500.00	6,027.00	5,989.00	5,989.00	171.67	20.96	-90.00	3,749.03	-3,541.87	6,104.56	6,001.12	103.44	59.014		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 8-T5N-R61W - ABND VERT PRONGHORN 32-8 - OWB - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-GYRO-MWD												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	5,989.00	5,989.00	173.41	20.96	-90.00	3,749.03	-3,541.87	6,198.95	6,095.70	103.26	60.035	
15,700.00	6,027.00	5,989.00	5,989.00	175.15	20.96	-90.00	3,749.03	-3,541.87	6,293.51	6,190.44	103.07	61.059	
15,800.00	6,027.00	5,989.00	5,989.00	176.90	20.96	-90.00	3,749.03	-3,541.87	6,388.24	6,285.35	102.89	62.085	
15,900.00	6,027.00	5,989.00	5,989.00	178.64	20.96	-90.00	3,749.03	-3,541.87	6,483.12	6,380.40	102.72	63.114	
16,000.00	6,027.00	5,989.00	5,989.00	180.39	20.96	-90.00	3,749.03	-3,541.87	6,578.16	6,475.61	102.55	64.145	
16,100.00	6,027.00	5,989.00	5,989.00	182.13	20.96	-90.00	3,749.03	-3,541.87	6,673.34	6,570.96	102.39	65.177	
16,200.00	6,027.00	5,989.00	5,989.00	183.88	20.96	-90.00	3,749.03	-3,541.87	6,768.66	6,666.44	102.23	66.212	
16,300.00	6,027.00	5,989.00	5,989.00	185.63	20.96	-90.00	3,749.03	-3,541.87	6,864.12	6,762.05	102.07	67.248	
16,400.00	6,027.00	5,989.00	5,989.00	187.38	20.96	-90.00	3,749.03	-3,541.87	6,959.70	6,857.78	101.92	68.286	
16,500.00	6,027.00	5,989.00	5,989.00	189.12	20.96	-90.00	3,749.03	-3,541.87	7,055.40	6,953.63	101.77	69.326	
16,600.00	6,027.00	5,989.00	5,989.00	190.87	20.96	-90.00	3,749.03	-3,541.87	7,151.23	7,049.60	101.63	70.366	
16,700.00	6,027.00	5,989.00	5,989.00	192.62	20.96	-90.00	3,749.03	-3,541.87	7,247.16	7,145.67	101.49	71.409	
16,795.97	6,027.00	5,989.00	5,989.00	194.30	20.96	-90.00	3,749.03	-3,541.87	7,339.33	7,237.97	101.36	72.410	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT WILLIAMS 8-1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	71.00	71.00	0.27	0.23	-61.31	2,434.01	-4,447.06	5,069.59	5,069.09	0.50	N/A		
200.00	200.00	171.00	171.00	0.63	0.57	-61.31	2,434.01	-4,447.06	5,069.59	5,068.39	1.20	4,235.620		
300.00	300.00	271.00	271.00	0.99	0.92	-61.31	2,434.01	-4,447.06	5,069.59	5,067.69	1.90	2,661.489		
400.00	400.00	371.00	371.00	1.34	1.27	-61.31	2,434.01	-4,447.06	5,069.59	5,066.98	2.61	1,940.368		
500.00	500.00	471.00	471.00	1.70	1.62	-61.31	2,434.01	-4,447.06	5,069.59	5,066.27	3.32	1,526.711		
600.00	600.00	571.00	571.00	2.06	1.97	-61.31	2,434.01	-4,447.06	5,069.59	5,065.56	4.03	1,258.433		
700.00	700.00	671.00	671.00	2.42	2.32	-61.31	2,434.01	-4,447.06	5,069.59	5,064.85	4.74	1,070.348		
800.00	800.00	771.00	771.00	2.78	2.68	-61.31	2,434.01	-4,447.06	5,069.59	5,064.15	5.44	931.175		
900.00	900.00	871.00	871.00	3.14	3.03	-61.31	2,434.01	-4,447.06	5,069.59	5,063.44	6.15	824.029		
1,000.00	999.98	970.98	970.98	3.49	3.38	27.97	2,434.01	-4,447.06	5,068.05	5,061.20	6.85	739.678		
1,100.00	1,099.84	1,070.84	1,070.84	3.83	3.73	28.04	2,434.01	-4,447.06	5,063.43	5,055.88	7.55	670.983		
1,200.00	1,199.45	1,170.45	1,170.45	4.19	4.08	28.16	2,434.01	-4,447.06	5,055.73	5,047.49	8.24	613.234		
1,300.00	1,298.70	1,269.70	1,269.70	4.55	4.42	28.33	2,434.01	-4,447.06	5,044.98	5,036.03	8.95	563.939		
1,400.00	1,397.47	1,368.47	1,368.47	4.94	4.77	28.55	2,434.01	-4,447.06	5,031.19	5,021.53	9.65	521.279		
1,500.00	1,495.62	1,466.62	1,466.62	5.34	5.11	28.82	2,434.01	-4,447.06	5,014.38	5,004.01	10.36	483.906		
1,600.00	1,593.06	1,564.06	1,564.06	5.78	5.46	29.14	2,434.01	-4,447.06	4,994.58	4,983.50	11.08	450.802		
1,700.00	1,689.64	1,660.64	1,660.64	6.24	5.79	29.51	2,434.01	-4,447.06	4,971.83	4,960.03	11.80	421.190		
1,800.00	1,785.27	1,756.27	1,756.27	6.75	6.13	29.92	2,434.01	-4,447.06	4,946.17	4,933.63	12.54	394.377		
1,900.00	1,880.44	1,851.44	1,851.44	7.30	6.46	30.10	2,434.01	-4,447.06	4,919.25	4,905.97	13.28	370.398		
2,000.00	1,975.60	1,946.60	1,946.60	7.86	6.80	30.28	2,434.01	-4,447.06	4,892.38	4,878.35	14.03	348.692		
2,100.00	2,070.77	2,041.77	2,041.77	8.43	7.13	30.46	2,434.01	-4,447.06	4,865.55	4,850.76	14.79	328.991		
2,200.00	2,165.93	2,136.93	2,136.93	9.02	7.46	30.64	2,434.01	-4,447.06	4,838.77	4,823.21	15.56	311.057		
2,300.00	2,261.10	2,232.10	2,232.10	9.62	7.80	30.82	2,434.01	-4,447.06	4,812.03	4,795.70	16.33	294.684		
2,400.00	2,356.26	2,327.26	2,327.26	10.23	8.13	31.01	2,434.01	-4,447.06	4,785.34	4,768.23	17.11	279.693		
2,500.00	2,451.43	2,422.43	2,422.43	10.84	8.47	31.20	2,434.01	-4,447.06	4,758.70	4,740.81	17.89	265.926		
2,600.00	2,546.59	2,517.59	2,517.59	11.46	8.80	31.39	2,434.01	-4,447.06	4,732.11	4,713.43	18.69	253.250		
2,700.00	2,641.76	2,612.76	2,612.76	12.09	9.13	31.58	2,434.01	-4,447.06	4,705.57	4,686.09	19.48	241.546		
2,800.00	2,736.92	2,707.92	2,707.92	12.72	9.47	31.77	2,434.01	-4,447.06	4,679.08	4,658.80	20.28	230.712		
2,900.00	2,832.09	2,803.09	2,803.09	13.35	9.80	31.97	2,434.01	-4,447.06	4,652.65	4,631.56	21.09	220.659		
3,000.00	2,927.25	2,898.25	2,898.25	13.99	10.13	32.17	2,434.01	-4,447.06	4,626.26	4,604.37	21.89	211.309		
3,100.00	3,022.42	2,993.42	2,993.42	14.63	10.47	32.37	2,434.01	-4,447.06	4,599.93	4,577.23	22.71	202.593		
3,200.00	3,117.58	3,088.58	3,088.58	15.27	10.80	32.57	2,434.01	-4,447.06	4,573.66	4,550.14	23.52	194.452		
3,300.00	3,212.75	3,183.75	3,183.75	15.91	11.14	32.78	2,434.01	-4,447.06	4,547.44	4,523.10	24.34	186.832		
3,400.00	3,307.91	3,278.91	3,278.91	16.56	11.47	32.99	2,434.01	-4,447.06	4,521.27	4,496.11	25.16	179.686		
3,500.00	3,403.08	3,374.08	3,374.08	17.20	11.80	33.20	2,434.01	-4,447.06	4,495.17	4,469.18	25.99	172.973		
3,600.00	3,498.24	3,469.24	3,469.24	17.85	12.14	33.41	2,434.01	-4,447.06	4,469.12	4,442.31	26.82	166.655		
3,700.00	3,593.41	3,564.41	3,564.41	18.50	12.47	33.62	2,434.01	-4,447.06	4,443.14	4,415.49	27.65	160.701		
3,800.00	3,688.57	3,659.57	3,659.57	19.15	12.80	33.84	2,434.01	-4,447.06	4,417.21	4,388.73	28.48	155.079		
3,900.00	3,783.74	3,754.74	3,754.74	19.81	13.14	34.06	2,434.01	-4,447.06	4,391.34	4,362.02	29.32	149.764		
4,000.00	3,878.90	3,849.90	3,849.90	20.46	13.47	34.28	2,434.01	-4,447.06	4,365.54	4,335.38	30.16	144.732		
4,100.00	3,974.07	3,945.07	3,945.07	21.11	13.80	34.51	2,434.01	-4,447.06	4,339.81	4,308.80	31.01	139.961		
4,200.00	4,069.23	4,040.23	4,040.23	21.77	14.14	34.74	2,434.01	-4,447.06	4,314.13	4,282.28	31.85	135.433		
4,300.00	4,164.40	4,135.40	4,135.40	22.42	14.47	34.97	2,434.01	-4,447.06	4,288.53	4,255.82	32.70	131.129		
4,400.00	4,259.56	4,230.56	4,230.56	23.08	14.81	35.20	2,434.01	-4,447.06	4,262.99	4,229.43	33.56	127.034		
4,500.00	4,354.73	4,325.73	4,325.73	23.74	15.14	35.44	2,434.01	-4,447.06	4,237.52	4,203.10	34.41	123.133		
4,600.00	4,449.89	4,420.89	4,420.89	24.39	15.47	35.67	2,434.01	-4,447.06	4,212.12	4,176.85	35.27	119.413		
4,700.00	4,545.06	4,516.06	4,516.06	25.05	15.81	35.91	2,434.01	-4,447.06	4,186.79	4,150.65	36.14	115.863		
4,800.00	4,640.22	4,611.22	4,611.22	25.71	16.14	36.16	2,434.01	-4,447.06	4,161.53	4,124.53	37.00	112.470		
4,900.00	4,735.39	4,706.39	4,706.39	26.37	16.47	36.41	2,434.01	-4,447.06	4,136.35	4,098.48	37.87	109.226		
5,000.00	4,830.55	4,801.55	4,801.55	27.03	16.81	36.66	2,434.01	-4,447.06	4,111.25	4,072.50	38.74	106.120		
5,100.00	4,925.72	4,896.72	4,896.72	27.69	17.14	36.91	2,434.01	-4,447.06	4,086.22	4,046.60	39.62	103.146		
5,200.00	5,020.88	4,991.88	4,991.88	28.35	17.48	37.16	2,434.01	-4,447.06	4,061.26	4,020.77	40.49	100.293		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - ABND VERT WILLIAMS 8-1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,087.05	5,087.05	29.01	17.81	37.42	2,434.01	-4,447.06	4,036.39	3,995.02	41.37	97.556		
5,400.00	5,211.21	5,182.21	5,182.21	29.67	18.14	37.68	2,434.01	-4,447.06	4,011.60	3,969.34	42.26	94.928		
5,500.00	5,306.38	5,277.38	5,277.38	30.33	18.48	37.95	2,434.01	-4,447.06	3,986.89	3,943.74	43.15	92.403		
5,600.00	5,401.54	5,372.54	5,372.54	30.99	18.81	38.22	2,434.01	-4,447.06	3,962.27	3,918.23	44.04	89.975		
5,700.00	5,496.71	5,467.71	5,467.71	31.65	19.14	34.08	2,434.01	-4,447.06	3,937.63	3,892.70	44.93	87.638		
5,800.00	5,591.13	5,562.13	5,562.13	32.30	19.47	4.63	2,434.01	-4,447.06	3,906.57	3,860.85	45.72	85.450		
5,900.00	5,682.22	5,653.22	5,653.22	32.92	19.79	-15.97	2,434.01	-4,447.06	3,865.86	3,819.55	46.31	83.479		
6,000.00	5,767.23	5,738.23	5,738.23	33.50	20.09	-30.77	2,434.01	-4,447.06	3,816.80	3,770.10	46.70	81.738		
6,100.00	5,843.56	5,814.56	5,814.56	34.04	20.36	-43.15	2,434.01	-4,447.06	3,761.07	3,714.19	46.88	80.232		
6,200.00	5,908.90	5,879.90	5,879.90	34.53	20.59	-54.65	2,434.01	-4,447.06	3,700.70	3,653.83	46.87	78.956		
6,300.00	5,961.25	5,932.25	5,932.25	34.99	20.77	-65.61	2,434.01	-4,447.06	3,638.00	3,591.30	46.70	77.897		
6,400.00	5,999.04	5,970.04	5,970.04	35.42	20.91	-75.66	2,434.01	-4,447.06	3,575.39	3,528.97	46.42	77.024		
6,500.00	6,021.11	5,992.11	5,992.11	35.83	20.98	-84.24	2,434.01	-4,447.06	3,515.31	3,469.23	46.07	76.298		
6,600.00	6,027.00	5,998.00	5,998.00	36.24	21.00	-90.00	2,434.01	-4,447.06	3,460.01	3,414.28	45.73	75.668		
6,700.00	6,027.00	5,998.00	5,998.00	36.68	21.00	-90.00	2,434.01	-4,447.06	3,408.21	3,362.70	45.51	74.892		
6,800.00	6,027.00	5,998.00	5,998.00	37.20	21.00	-90.00	2,434.01	-4,447.06	3,358.60	3,313.12	45.48	73.847		
6,900.00	6,027.00	5,998.00	5,998.00	37.80	21.00	-90.00	2,434.01	-4,447.06	3,311.26	3,265.60	45.66	72.522		
7,000.00	6,027.00	5,998.00	5,998.00	38.47	21.00	-90.00	2,434.01	-4,447.06	3,266.30	3,220.24	46.06	70.918		
7,100.00	6,027.00	5,998.00	5,998.00	39.21	21.00	-90.00	2,434.01	-4,447.06	3,223.82	3,177.14	46.68	69.061		
7,200.00	6,027.00	5,998.00	5,998.00	40.02	21.00	-90.00	2,434.01	-4,447.06	3,183.91	3,136.38	47.53	66.989		
7,300.00	6,027.00	5,998.00	5,998.00	40.89	21.00	-90.00	2,434.01	-4,447.06	3,146.67	3,098.08	48.59	64.755		
7,400.00	6,027.00	5,998.00	5,998.00	41.83	21.00	-90.00	2,434.01	-4,447.06	3,112.20	3,062.34	49.86	62.418		
7,500.00	6,027.00	5,998.00	5,998.00	42.83	21.00	-90.00	2,434.01	-4,447.06	3,080.60	3,029.28	51.31	60.034		
7,600.00	6,027.00	5,998.00	5,998.00	43.88	21.00	-90.00	2,434.01	-4,447.06	3,051.94	2,999.01	52.93	57.656		
7,700.00	6,027.00	5,998.00	5,998.00	44.99	21.00	-90.00	2,434.01	-4,447.06	3,026.32	2,971.62	54.70	55.327		
7,800.00	6,027.00	5,998.00	5,998.00	46.14	21.00	-90.00	2,434.01	-4,447.06	3,003.81	2,947.22	56.59	53.082		
7,900.00	6,027.00	5,998.00	5,998.00	47.33	21.00	-90.00	2,434.01	-4,447.06	2,984.48	2,925.90	58.58	50.947		
8,000.00	6,027.00	5,998.00	5,998.00	48.57	21.00	-90.00	2,434.01	-4,447.06	2,968.40	2,907.75	60.65	48.940		
8,100.00	6,027.00	5,998.00	5,998.00	49.84	21.00	-90.00	2,434.01	-4,447.06	2,955.62	2,892.83	62.79	47.072		
8,200.00	6,027.00	5,998.00	5,998.00	51.15	21.00	-90.00	2,434.01	-4,447.06	2,946.17	2,881.20	64.97	45.347		
8,300.00	6,027.00	5,998.00	5,998.00	52.48	21.00	-90.00	2,434.01	-4,447.06	2,940.10	2,872.93	67.18	43.767		
8,400.00	6,027.00	5,998.00	5,998.00	53.85	21.00	-90.00	2,434.01	-4,447.06	2,937.43	2,868.03	69.39	42.330		
8,428.66	6,027.00	5,998.00	5,998.00	54.24	21.00	-90.00	2,434.01	-4,447.06	2,937.29	2,867.26	70.03	41.943 CC		
8,500.00	6,027.00	5,998.00	5,998.00	55.24	21.00	-90.00	2,434.01	-4,447.06	2,938.15	2,866.55	71.61	41.032 ES		
8,600.00	6,027.00	5,998.00	5,998.00	56.65	21.00	-90.00	2,434.01	-4,447.06	2,942.28	2,868.48	73.80	39.868		
8,700.00	6,027.00	5,998.00	5,998.00	58.08	21.00	-90.00	2,434.01	-4,447.06	2,949.79	2,873.83	75.96	38.832		
8,800.00	6,027.00	5,998.00	5,998.00	59.54	21.00	-90.00	2,434.01	-4,447.06	2,960.67	2,882.59	78.08	37.917		
8,900.00	6,027.00	5,998.00	5,998.00	61.01	21.00	-90.00	2,434.01	-4,447.06	2,974.87	2,894.71	80.15	37.116		
9,000.00	6,027.00	5,998.00	5,998.00	62.50	21.00	-90.00	2,434.01	-4,447.06	2,992.34	2,910.18	82.16	36.422		
9,100.00	6,027.00	5,998.00	5,998.00	64.01	21.00	-90.00	2,434.01	-4,447.06	3,013.03	2,928.93	84.10	35.828		
9,200.00	6,027.00	5,998.00	5,998.00	65.53	21.00	-90.00	2,434.01	-4,447.06	3,036.88	2,950.91	85.96	35.327		
9,300.00	6,027.00	5,998.00	5,998.00	67.06	21.00	-90.00	2,434.01	-4,447.06	3,063.80	2,976.05	87.75	34.914		
9,400.00	6,027.00	5,998.00	5,998.00	68.61	21.00	-90.00	2,434.01	-4,447.06	3,093.73	3,004.27	89.46	34.582		
9,500.00	6,027.00	5,998.00	5,998.00	70.17	21.00	-90.00	2,434.01	-4,447.06	3,126.57	3,035.48	91.08	34.326		
9,600.00	6,027.00	5,998.00	5,998.00	71.73	21.00	-90.00	2,434.01	-4,447.06	3,162.23	3,069.61	92.62	34.140		
9,700.00	6,027.00	5,998.00	5,998.00	73.31	21.00	-90.00	2,434.01	-4,447.06	3,200.62	3,106.54	94.08	34.021		
9,800.00	6,027.00	5,998.00	5,998.00	74.90	21.00	-90.00	2,434.01	-4,447.06	3,241.64	3,146.19	95.45	33.962		
9,900.00	6,027.00	5,998.00	5,998.00	76.50	21.00	-90.00	2,434.01	-4,447.06	3,285.20	3,188.46	96.74	33.960 SF		
10,000.00	6,027.00	5,998.00	5,998.00	78.10	21.00	-90.00	2,434.01	-4,447.06	3,331.18	3,233.24	97.94	34.011		
10,100.00	6,027.00	5,998.00	5,998.00	79.71	21.00	-90.00	2,434.01	-4,447.06	3,379.50	3,280.43	99.07	34.112		
10,200.00	6,027.00	5,998.00	5,998.00	81.33	21.00	-90.00	2,434.01	-4,447.06	3,430.06	3,329.94	100.12	34.259		
10,300.00	6,027.00	5,998.00	5,998.00	82.96	21.00	-90.00	2,434.01	-4,447.06	3,482.75	3,381.65	101.10	34.448		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,998.00	5,998.00	84.59	21.00	-90.00	2,434.01	-4,447.06	3,537.49	3,435.48	102.01	34.678		
10,500.00	6,027.00	5,998.00	5,998.00	86.23	21.00	-90.00	2,434.01	-4,447.06	3,594.18	3,491.33	102.85	34.945		
10,600.00	6,027.00	5,998.00	5,998.00	87.87	21.00	-90.00	2,434.01	-4,447.06	3,652.72	3,549.09	103.63	35.247		
10,700.00	6,027.00	5,998.00	5,998.00	89.52	21.00	-90.00	2,434.01	-4,447.06	3,713.04	3,608.69	104.35	35.582		
10,800.00	6,027.00	5,998.00	5,998.00	91.17	21.00	-90.00	2,434.01	-4,447.06	3,775.04	3,670.03	105.01	35.948		
10,900.00	6,027.00	5,998.00	5,998.00	92.83	21.00	-90.00	2,434.01	-4,447.06	3,838.64	3,733.02	105.62	36.342		
11,000.00	6,027.00	5,998.00	5,998.00	94.49	21.00	-90.00	2,434.01	-4,447.06	3,903.78	3,797.59	106.19	36.763		
11,100.00	6,027.00	5,998.00	5,998.00	96.16	21.00	-90.00	2,434.01	-4,447.06	3,970.36	3,863.65	106.70	37.210		
11,200.00	6,027.00	5,998.00	5,998.00	97.83	21.00	-90.00	2,434.01	-4,447.06	4,038.32	3,931.14	107.17	37.680		
11,300.00	6,027.00	5,998.00	5,998.00	99.50	21.00	-90.00	2,434.01	-4,447.06	4,107.59	3,999.98	107.61	38.172		
11,400.00	6,027.00	5,998.00	5,998.00	101.18	21.00	-90.00	2,434.01	-4,447.06	4,178.10	4,070.10	108.00	38.685		
11,500.00	6,027.00	5,998.00	5,998.00	102.86	21.00	-90.00	2,434.01	-4,447.06	4,249.80	4,141.44	108.36	39.218		
11,600.00	6,027.00	5,998.00	5,998.00	104.54	21.00	-90.00	2,434.01	-4,447.06	4,322.62	4,213.93	108.69	39.770		
11,700.00	6,027.00	5,998.00	5,998.00	106.23	21.00	-90.00	2,434.01	-4,447.06	4,396.51	4,287.53	108.99	40.339		
11,800.00	6,027.00	5,998.00	5,998.00	107.92	21.00	-90.00	2,434.01	-4,447.06	4,471.42	4,362.16	109.26	40.924		
11,900.00	6,027.00	5,998.00	5,998.00	109.61	21.00	-90.00	2,434.01	-4,447.06	4,547.29	4,437.79	109.51	41.525		
12,000.00	6,027.00	5,998.00	5,998.00	111.31	21.00	-90.00	2,434.01	-4,447.06	4,624.08	4,514.35	109.73	42.141		
12,100.00	6,027.00	5,998.00	5,998.00	113.00	21.00	-90.00	2,434.01	-4,447.06	4,701.75	4,591.82	109.93	42.771		
12,200.00	6,027.00	5,998.00	5,998.00	114.71	21.00	-90.00	2,434.01	-4,447.06	4,780.24	4,670.13	110.11	43.414		
12,300.00	6,027.00	5,998.00	5,998.00	116.41	21.00	-90.00	2,434.01	-4,447.06	4,859.52	4,749.25	110.27	44.069		
12,400.00	6,027.00	5,998.00	5,998.00	118.11	21.00	-90.00	2,434.01	-4,447.06	4,939.56	4,829.14	110.42	44.736		
12,500.00	6,027.00	5,998.00	5,998.00	119.82	21.00	-90.00	2,434.01	-4,447.06	5,020.31	4,909.76	110.55	45.414		
12,600.00	6,027.00	5,998.00	5,998.00	121.53	21.00	-90.00	2,434.01	-4,447.06	5,101.74	4,991.08	110.66	46.102		
12,700.00	6,027.00	5,998.00	5,998.00	123.24	21.00	-90.00	2,434.01	-4,447.06	5,183.82	5,073.06	110.76	46.801		
12,800.00	6,027.00	5,998.00	5,998.00	124.95	21.00	-90.00	2,434.01	-4,447.06	5,266.53	5,155.67	110.85	47.509		
12,900.00	6,027.00	5,998.00	5,998.00	126.66	21.00	-90.00	2,434.01	-4,447.06	5,349.82	5,238.89	110.93	48.226		
13,000.00	6,027.00	5,998.00	5,998.00	128.38	21.00	-90.00	2,434.01	-4,447.06	5,433.68	5,322.68	111.00	48.952		
13,100.00	6,027.00	5,998.00	5,998.00	130.10	21.00	-90.00	2,434.01	-4,447.06	5,518.07	5,407.01	111.06	49.686		
13,200.00	6,027.00	5,998.00	5,998.00	131.82	21.00	-90.00	2,434.01	-4,447.06	5,602.98	5,491.87	111.11	50.428		
13,300.00	6,027.00	5,998.00	5,998.00	133.54	21.00	-90.00	2,434.01	-4,447.06	5,688.38	5,577.23	111.15	51.177		
13,400.00	6,027.00	5,998.00	5,998.00	135.26	21.00	-90.00	2,434.01	-4,447.06	5,774.24	5,663.06	111.19	51.933		
13,500.00	6,027.00	5,998.00	5,998.00	136.98	21.00	-90.00	2,434.01	-4,447.06	5,860.56	5,749.35	111.22	52.696		
13,600.00	6,027.00	5,998.00	5,998.00	138.71	21.00	-90.00	2,434.01	-4,447.06	5,947.31	5,836.07	111.24	53.465		
13,700.00	6,027.00	5,998.00	5,998.00	140.43	21.00	-90.00	2,434.01	-4,447.06	6,034.46	5,923.20	111.26	54.240		
13,800.00	6,027.00	5,998.00	5,998.00	142.16	21.00	-90.00	2,434.01	-4,447.06	6,122.01	6,010.74	111.27	55.021		
13,900.00	6,027.00	5,998.00	5,998.00	143.89	21.00	-90.00	2,434.01	-4,447.06	6,209.93	6,098.66	111.27	55.807		
14,000.00	6,027.00	5,998.00	5,998.00	145.62	21.00	-90.00	2,434.01	-4,447.06	6,298.22	6,186.94	111.28	56.599		
14,100.00	6,027.00	5,998.00	5,998.00	147.35	21.00	-90.00	2,434.01	-4,447.06	6,386.84	6,275.57	111.28	57.395		
14,200.00	6,027.00	5,998.00	5,998.00	149.08	21.00	-90.00	2,434.01	-4,447.06	6,475.81	6,364.53	111.27	58.197		
14,300.00	6,027.00	5,998.00	5,998.00	150.81	21.00	-90.00	2,434.01	-4,447.06	6,565.08	6,453.82	111.27	59.003		
14,400.00	6,027.00	5,998.00	5,998.00	152.54	21.00	-90.00	2,434.01	-4,447.06	6,654.67	6,543.41	111.26	59.813		
14,500.00	6,027.00	5,998.00	5,998.00	154.28	21.00	-90.00	2,434.01	-4,447.06	6,744.54	6,633.30	111.25	60.628		
14,600.00	6,027.00	5,998.00	5,998.00	156.01	21.00	-90.00	2,434.01	-4,447.06	6,834.70	6,723.47	111.23	61.446		
14,700.00	6,027.00	5,998.00	5,998.00	157.75	21.00	-90.00	2,434.01	-4,447.06	6,925.13	6,813.91	111.21	62.269		
14,800.00	6,027.00	5,998.00	5,998.00	159.49	21.00	-90.00	2,434.01	-4,447.06	7,015.82	6,904.62	111.20	63.094		
14,900.00	6,027.00	5,998.00	5,998.00	161.22	21.00	-90.00	2,434.01	-4,447.06	7,106.75	6,995.58	111.18	63.924		
15,000.00	6,027.00	5,998.00	5,998.00	162.96	21.00	-90.00	2,434.01	-4,447.06	7,197.93	7,086.78	111.15	64.756		
15,100.00	6,027.00	5,998.00	5,998.00	164.70	21.00	-90.00	2,434.01	-4,447.06	7,289.34	7,178.21	111.13	65.592		
15,200.00	6,027.00	5,998.00	5,998.00	166.44	21.00	-90.00	2,434.01	-4,447.06	7,380.97	7,269.86	111.11	66.431		
15,300.00	6,027.00	5,998.00	5,998.00	168.18	21.00	-90.00	2,434.01	-4,447.06	7,472.82	7,361.74	111.08	67.273		
15,400.00	6,027.00	5,998.00	5,998.00	169.93	21.00	-90.00	2,434.01	-4,447.06	7,564.87	7,453.81	111.06	68.117		
15,500.00	6,027.00	5,998.00	5,998.00	171.67	21.00	-90.00	2,434.01	-4,447.06	7,657.12	7,546.09	111.03	68.964		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 8-T5N-R61W - ABND VERT WILLIAMS 8-1 - OWB - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-GYRO-MWD												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	5,998.00	5,998.00	173.41	21.00	-90.00	2,434.01	-4,447.06	7,749.57	7,638.57	111.00	69.814	
15,700.00	6,027.00	5,998.00	5,998.00	175.15	21.00	-90.00	2,434.01	-4,447.06	7,842.20	7,731.22	110.98	70.666	
15,800.00	6,027.00	5,998.00	5,998.00	176.90	21.00	-90.00	2,434.01	-4,447.06	7,935.01	7,824.06	110.95	71.520	
15,900.00	6,027.00	5,998.00	5,998.00	178.64	21.00	-90.00	2,434.01	-4,447.06	8,027.99	7,917.07	110.92	72.377	
16,000.00	6,027.00	5,998.00	5,998.00	180.39	21.00	-90.00	2,434.01	-4,447.06	8,121.14	8,010.25	110.89	73.235	
16,100.00	6,027.00	5,998.00	5,998.00	182.13	21.00	-90.00	2,434.01	-4,447.06	8,214.45	8,103.59	110.86	74.096	
16,200.00	6,027.00	5,998.00	5,998.00	183.88	21.00	-90.00	2,434.01	-4,447.06	8,307.91	8,197.08	110.83	74.959	
16,300.00	6,027.00	5,998.00	5,998.00	185.63	21.00	-90.00	2,434.01	-4,447.06	8,401.53	8,290.72	110.80	75.823	
16,400.00	6,027.00	5,998.00	5,998.00	187.38	21.00	-90.00	2,434.01	-4,447.06	8,495.29	8,384.51	110.78	76.689	
16,500.00	6,027.00	5,998.00	5,998.00	189.12	21.00	-90.00	2,434.01	-4,447.06	8,589.19	8,478.44	110.75	77.557	
16,600.00	6,027.00	5,998.00	5,998.00	190.87	21.00	-90.00	2,434.01	-4,447.06	8,683.23	8,572.51	110.72	78.426	
16,700.00	6,027.00	5,998.00	5,998.00	192.62	21.00	-90.00	2,434.01	-4,447.06	8,777.40	8,666.71	110.69	79.297	
16,795.97	6,027.00	5,998.00	5,998.00	194.30	21.00	-90.00	2,434.01	-4,447.06	8,867.89	8,757.23	110.66	80.134	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 124-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	84.26	84.26	0.27	0.13	-83.17	661.49	-5,526.85	5,566.37	5,565.97	0.40	N/A		
200.00	200.00	190.73	190.72	0.63	0.43	-83.17	661.53	-5,526.16	5,565.72	5,564.66	1.06	5,258.139		
300.00	300.00	277.80	277.79	0.99	0.74	-83.17	661.47	-5,525.73	5,565.22	5,563.49	1.73	3,221.412		
400.00	400.00	381.86	381.86	1.34	1.11	-83.18	661.15	-5,525.38	5,564.85	5,562.39	2.46	2,265.358		
500.00	500.00	496.33	496.32	1.70	1.52	-83.18	660.65	-5,524.76	5,564.26	5,561.04	3.22	1,725.767		
600.00	600.00	604.07	604.06	2.06	1.91	-83.18	660.26	-5,523.95	5,563.47	5,559.50	3.97	1,401.973		
700.00	700.00	693.58	693.56	2.42	2.23	-83.18	660.25	-5,523.22	5,562.66	5,558.02	4.65	1,197.244		
800.00	800.00	785.59	785.57	2.78	2.56	-83.19	659.96	-5,522.78	5,562.15	5,556.82	5.33	1,042.899		
900.00	900.00	879.53	879.51	3.14	2.89	-83.19	659.70	-5,522.33	5,561.64	5,555.61	6.03	922.637		
1,000.00	999.98	988.09	988.07	3.49	3.28	6.07	659.61	-5,521.90	5,559.51	5,552.74	6.76	821.948		
1,100.00	1,099.84	1,085.87	1,085.85	3.83	3.62	6.10	660.07	-5,521.28	5,553.74	5,546.28	7.45	745.263		
1,200.00	1,199.45	1,156.22	1,156.20	4.19	3.86	6.13	660.33	-5,521.06	5,544.80	5,536.76	8.04	689.639		
1,300.00	1,298.70	1,234.35	1,234.33	4.55	4.12	6.16	660.31	-5,521.24	5,532.91	5,524.25	8.65	639.478		
1,400.00	1,397.47	1,315.99	1,315.97	4.94	4.39	6.21	660.37	-5,521.68	5,517.88	5,508.61	9.28	594.765		
1,500.00	1,495.62	1,418.51	1,418.48	5.34	4.74	6.27	660.39	-5,522.45	5,499.66	5,489.68	9.98	551.179		
1,600.00	1,593.06	1,523.76	1,523.73	5.78	5.10	6.35	660.72	-5,522.96	5,477.80	5,467.10	10.69	512.191		
1,700.00	1,689.64	1,652.67	1,652.64	6.24	5.54	6.46	661.40	-5,523.22	5,452.34	5,440.84	11.50	474.066		
1,800.00	1,785.27	1,748.18	1,748.14	6.75	5.88	6.55	660.71	-5,523.10	5,423.08	5,410.88	12.20	444.462		
1,900.00	1,880.44	1,845.84	1,845.80	7.30	6.22	6.60	661.30	-5,522.94	5,392.47	5,379.56	12.90	417.965		
2,000.00	1,975.60	2,847.69	2,838.05	7.86	9.95	6.21	584.22	-5,442.40	5,350.12	5,333.49	16.63	321.618		
2,100.00	2,070.77	2,920.00	2,909.02	8.43	10.25	6.16	576.29	-5,431.01	5,303.90	5,286.65	17.26	307.295		
2,200.00	2,165.93	2,988.70	2,976.45	9.02	10.54	6.11	568.44	-5,420.46	5,258.00	5,240.12	17.88	294.062		
2,300.00	2,261.10	3,057.13	3,043.62	9.62	10.83	6.05	560.04	-5,410.44	5,212.59	5,194.08	18.51	281.651		
2,400.00	2,356.26	3,189.92	3,173.94	10.23	11.40	5.93	543.66	-5,390.91	5,167.24	5,147.89	19.35	267.037		
2,500.00	2,451.43	3,391.13	3,371.40	10.84	12.27	5.84	526.72	-5,356.42	5,119.77	5,099.38	20.39	251.081		
2,600.00	2,546.59	3,495.58	3,473.90	11.46	12.72	5.84	521.44	-5,337.04	5,071.66	5,050.55	21.12	240.165		
2,700.00	2,641.76	3,585.44	3,562.09	12.09	13.10	5.87	519.18	-5,319.93	5,023.37	5,001.58	21.80	230.448		
2,800.00	2,736.92	3,664.02	3,639.21	12.72	13.44	5.89	516.75	-5,305.09	4,975.16	4,952.71	22.45	221.597		
2,900.00	2,832.09	3,735.87	3,709.72	13.35	13.76	5.89	512.82	-5,291.88	4,927.17	4,904.08	23.09	213.359		
3,000.00	2,927.25	3,800.00	3,772.63	13.99	14.05	5.87	507.70	-5,280.53	4,879.54	4,855.82	23.72	205.705		
3,100.00	3,022.42	3,846.12	3,817.85	14.63	14.26	5.83	502.99	-5,272.80	4,832.51	4,808.20	24.31	198.822		
3,200.00	3,117.58	3,888.00	3,858.90	15.27	14.45	5.79	497.93	-5,266.24	4,786.27	4,761.39	24.88	192.365		
3,300.00	3,212.75	3,932.49	3,902.50	15.91	14.65	5.74	491.88	-5,259.77	4,740.89	4,715.42	25.47	186.121		
3,400.00	3,307.91	3,977.00	3,946.12	16.56	14.86	5.68	485.28	-5,253.84	4,696.41	4,670.34	26.07	180.173		
3,500.00	3,403.08	4,037.67	4,005.55	17.20	15.13	5.58	475.69	-5,246.29	4,652.66	4,625.94	26.72	174.150		
3,600.00	3,498.24	4,096.21	4,062.87	17.85	15.40	5.48	466.06	-5,239.37	4,609.44	4,582.08	27.36	168.450		
3,700.00	3,593.41	4,154.00	4,119.49	18.50	15.66	5.38	456.33	-5,233.03	4,566.93	4,538.91	28.01	163.032		
3,800.00	3,688.57	4,223.19	4,187.27	19.15	15.97	5.26	444.48	-5,225.86	4,524.97	4,496.27	28.70	157.658		
3,900.00	3,783.74	4,541.51	4,499.13	19.81	17.45	4.76	397.07	-5,184.12	4,480.52	4,450.39	30.13	148.705		
4,000.00	3,878.90	4,611.65	4,567.84	20.46	17.78	4.68	388.28	-5,173.19	4,434.41	4,403.59	30.82	143.903		
4,100.00	3,974.07	4,682.00	4,636.77	21.11	18.11	4.58	379.04	-5,162.57	4,388.69	4,357.19	31.51	139.301		
4,200.00	4,069.23	4,759.61	4,712.85	21.77	18.48	4.47	368.78	-5,151.12	4,343.29	4,311.07	32.22	134.810		
4,300.00	4,164.40	4,805.45	4,757.79	22.42	18.70	4.40	362.61	-5,144.61	4,298.39	4,265.54	32.85	130.856		
4,400.00	4,259.56	4,859.00	4,810.29	23.08	18.95	4.31	354.53	-5,137.79	4,254.55	4,221.04	33.50	126.989		
4,500.00	4,354.73	4,948.15	4,897.67	23.74	19.37	4.15	340.57	-5,126.86	4,211.22	4,176.96	34.26	122.905		
4,600.00	4,449.89	5,244.00	5,187.61	24.39	20.78	3.72	303.30	-5,082.25	4,166.13	4,130.60	35.52	117.274		
4,700.00	4,545.06	5,368.94	5,310.02	25.05	21.37	3.65	294.35	-5,058.85	4,117.74	4,081.43	36.31	113.404		
4,800.00	4,640.22	5,454.82	5,394.14	25.71	21.77	3.62	289.62	-5,042.27	4,068.95	4,031.94	37.01	109.935		
4,900.00	4,735.39	5,510.89	5,449.09	26.37	22.03	3.59	286.18	-5,031.66	4,020.51	3,982.84	37.66	106.744		
5,000.00	4,830.55	5,767.20	5,696.42	27.03	23.02	4.12	308.83	-4,977.82	3,971.33	3,932.88	38.45	103.279		
5,100.00	4,925.72	5,830.00	5,752.83	27.69	23.19	4.55	332.06	-4,963.05	3,920.19	3,881.17	39.02	100.461		
5,200.00	5,020.88	6,091.00	5,952.28	28.35	23.60	7.41	484.94	-4,898.64	3,868.40	3,828.76	39.65	97.574		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 124-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	6,091.00	5,952.28	29.01	23.60	7.41	484.94	-4,898.64	3,815.83	3,775.59	40.24	94.819		
5,400.00	5,211.21	6,091.00	5,952.28	29.67	23.60	7.41	484.94	-4,898.64	3,765.18	3,724.34	40.84	92.196		
5,500.00	5,306.38	6,131.81	5,977.25	30.33	23.63	7.98	515.58	-4,888.52	3,715.38	3,673.88	41.50	89.530		
5,600.00	5,401.54	6,141.44	5,982.90	30.99	23.64	8.12	523.09	-4,886.42	3,668.17	3,626.06	42.11	87.114		
5,700.00	5,496.71	6,179.00	6,004.03	31.65	23.68	3.88	553.29	-4,879.29	3,623.51	3,580.74	42.77	84.719		
5,800.00	5,591.13	6,179.00	6,004.03	32.30	23.68	-28.09	553.29	-4,879.29	3,578.80	3,535.50	43.30	82.644		
5,900.00	5,682.22	6,179.00	6,004.03	32.92	23.68	-49.78	553.29	-4,879.29	3,535.30	3,491.55	43.75	80.809		
6,000.00	5,767.23	6,179.00	6,004.03	33.50	23.68	-63.88	553.29	-4,879.29	3,494.41	3,450.28	44.13	79.184		
6,100.00	5,843.56	6,179.00	6,004.03	34.04	23.68	-73.53	553.29	-4,879.29	3,457.49	3,412.99	44.50	77.704		
6,200.00	5,908.90	6,230.91	6,029.99	34.53	23.68	-80.25	597.60	-4,871.91	3,424.03	3,379.03	44.99	76.099		
6,300.00	5,961.25	6,268.00	6,045.72	34.99	23.70	-85.16	630.99	-4,868.29	3,397.08	3,351.56	45.52	74.628		
6,400.00	5,999.04	6,268.00	6,045.72	35.42	23.70	-88.55	630.99	-4,868.29	3,376.46	3,330.34	46.12	73.209		
6,500.00	6,021.11	6,332.58	6,067.40	35.83	23.70	-90.71	691.61	-4,863.79	3,362.63	3,315.70	46.93	71.655		
6,600.00	6,027.00	6,356.00	6,073.46	36.24	23.71	-91.53	714.19	-4,862.46	3,356.01	3,308.21	47.80	70.212		
6,700.00	6,027.00	6,444.00	6,088.41	36.68	23.78	-91.79	800.78	-4,859.36	3,352.91	3,304.04	48.87	68.606		
6,800.00	6,027.00	6,472.68	6,090.83	37.20	23.82	-91.83	829.35	-4,858.98	3,351.33	3,301.28	50.06	66.949		
6,900.00	6,027.00	6,664.28	6,092.92	37.80	24.63	-91.86	1,020.86	-4,856.27	3,350.56	3,298.84	51.72	64.784		
7,000.00	6,027.00	6,764.15	6,093.07	38.47	25.32	-91.87	1,120.68	-4,852.80	3,347.07	3,293.65	53.42	62.659		
7,100.00	6,027.00	6,835.02	6,093.23	39.21	25.88	-91.87	1,191.51	-4,850.54	3,343.93	3,288.78	55.15	60.637		
7,200.00	6,027.00	6,885.00	6,093.40	40.02	26.30	-91.88	1,241.48	-4,849.53	3,341.99	3,285.11	56.88	58.754		
7,300.00	6,027.00	6,973.00	6,093.68	40.89	27.09	-91.88	1,329.48	-4,848.83	3,341.18	3,282.25	58.93	56.697		
7,324.21	6,027.00	6,973.00	6,093.68	41.11	27.09	-91.88	1,329.48	-4,848.83	3,341.09	3,281.77	59.32	56.319		
7,400.00	6,027.00	7,017.28	6,093.78	41.83	27.52	-91.88	1,373.76	-4,849.02	3,341.43	3,280.59	60.83	54.927		
7,500.00	6,027.00	7,091.20	6,093.87	42.83	28.25	-91.88	1,447.66	-4,850.24	3,342.98	3,279.99	62.99	53.075		
7,600.00	6,027.00	7,150.00	6,093.94	43.88	28.86	-91.88	1,506.46	-4,851.10	3,344.79	3,279.68	65.11	51.373		
7,700.00	6,027.00	7,238.00	6,094.05	44.99	29.82	-91.88	1,594.40	-4,854.00	3,348.05	3,280.54	67.52	49.588		
7,800.00	6,027.00	7,657.39	6,093.44	46.14	35.01	-91.88	2,013.43	-4,848.31	3,346.89	3,273.97	72.92	45.897		
7,900.00	6,027.00	7,736.46	6,093.15	47.33	36.08	-91.88	2,092.37	-4,843.76	3,341.09	3,265.58	75.51	44.249		
8,000.00	6,027.00	7,763.00	6,093.08	48.57	36.44	-91.87	2,118.86	-4,842.29	3,336.30	3,258.67	77.63	42.975		
8,100.00	6,027.00	7,801.82	6,093.04	49.84	36.98	-91.87	2,157.66	-4,840.93	3,333.41	3,253.49	79.91	41.713		
8,165.00	6,027.00	7,816.66	6,093.04	50.69	37.18	-91.87	2,172.49	-4,840.81	3,332.87	3,251.57	81.30	40.995		
8,200.00	6,027.00	7,851.00	6,093.08	51.15	37.66	-91.88	2,206.83	-4,841.39	3,333.45	3,251.14	82.31	40.499		
8,204.45	6,027.00	7,851.00	6,093.08	51.21	37.66	-91.88	2,206.83	-4,841.39	3,333.45	3,251.05	82.40	40.457		
8,300.00	6,027.00	7,851.00	6,093.08	52.48	37.66	-91.88	2,206.83	-4,841.39	3,334.90	3,250.69	84.21	39.602		
8,400.00	6,027.00	7,851.00	6,093.08	53.85	37.66	-91.88	2,206.83	-4,841.39	3,339.35	3,253.26	86.09	38.790		
8,500.00	6,027.00	7,898.37	6,093.20	55.24	38.32	-91.88	2,254.12	-4,843.99	3,345.48	3,256.99	88.48	37.809		
8,600.00	6,027.00	7,941.00	6,093.32	56.65	38.91	-91.88	2,296.57	-4,847.98	3,354.25	3,263.43	90.82	36.933		
8,700.00	6,027.00	8,302.09	6,093.57	58.08	44.17	-91.87	2,656.57	-4,871.63	3,363.95	3,266.94	97.01	34.677		
8,800.00	6,027.00	8,378.00	6,093.46	59.54	45.32	-91.86	2,732.47	-4,872.86	3,365.59	3,265.73	99.86	33.703		
8,900.00	6,027.00	8,428.91	6,093.38	61.01	46.10	-91.86	2,783.35	-4,874.23	3,368.37	3,265.94	102.43	32.884		
9,000.00	6,027.00	8,466.00	6,093.37	62.50	46.67	-91.86	2,820.41	-4,875.84	3,372.83	3,268.01	104.82	32.176		
9,100.00	6,027.00	8,466.00	6,093.37	64.01	46.67	-91.86	2,820.41	-4,875.84	3,379.79	3,273.08	106.70	31.675		
9,200.00	6,027.00	9,185.23	6,092.66	65.53	58.04	-91.85	3,537.49	-4,875.13	3,383.23	3,266.13	117.10	28.892		
9,300.00	6,027.00	9,235.95	6,092.65	67.06	58.86	-91.85	3,588.02	-4,870.69	3,374.29	3,254.42	119.87	28.150		
9,400.00	6,027.00	9,257.00	6,092.65	68.61	59.20	-91.85	3,609.00	-4,868.97	3,366.87	3,244.54	122.33	27.522		
9,500.00	6,027.00	9,295.36	6,092.65	70.17	59.83	-91.85	3,647.28	-4,866.63	3,361.36	3,236.40	124.96	26.900		
9,600.00	6,027.00	9,346.00	6,092.56	71.73	60.65	-91.85	3,697.91	-4,865.77	3,358.76	3,231.06	127.70	26.302		
9,692.65	6,027.00	9,346.00	6,092.56	73.20	60.65	-91.85	3,697.91	-4,865.77	3,357.48	3,227.82	129.66	25.894		
9,700.00	6,027.00	9,346.00	6,092.56	73.31	60.65	-91.85	3,697.91	-4,865.77	3,357.49	3,227.67	129.82	25.864		
9,800.00	6,027.00	9,392.92	6,092.47	74.90	61.43	-91.85	3,744.83	-4,866.38	3,358.62	3,226.15	132.47	25.354		
9,900.00	6,027.00	9,484.62	6,092.45	76.50	62.93	-91.85	3,836.50	-4,868.52	3,360.90	3,225.21	135.70	24.768		
10,000.00	6,027.00	9,758.33	6,092.72	78.10	67.47	-91.86	4,110.16	-4,866.86	3,360.12	3,218.95	141.18	23.801		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 124-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	6,027.00	9,870.00	6,092.63	79.71	69.32	-91.86	4,221.76	-4,863.01	3,356.64	3,211.98	144.66	23.204		
10,200.00	6,027.00	9,916.24	6,092.68	81.33	70.10	-91.86	4,267.99	-4,861.92	3,354.10	3,206.70	147.40	22.755		
10,300.00	6,027.00	9,958.00	6,092.82	82.96	70.79	-91.86	4,309.75	-4,861.33	3,352.93	3,202.88	150.05	22.345		
10,353.29	6,027.00	10,006.80	6,092.96	83.82	71.61	-91.86	4,358.55	-4,861.11	3,352.70	3,200.90	151.80	22.087		
10,400.00	6,027.00	10,047.00	6,092.95	84.59	72.29	-91.86	4,398.75	-4,861.27	3,352.86	3,199.57	153.29	21.872		
10,500.00	6,027.00	10,119.21	6,092.93	86.23	73.50	-91.86	4,470.95	-4,861.94	3,353.68	3,197.35	156.32	21.453		
10,600.00	6,027.00	10,219.18	6,093.02	87.87	75.19	-91.86	4,570.92	-4,863.01	3,354.73	3,195.01	159.72	21.004		
10,700.00	6,027.00	10,664.00	6,092.55	89.52	82.68	-91.86	5,014.83	-4,844.20	3,349.98	3,183.09	166.89	20.074		
10,800.00	6,027.00	10,705.60	6,092.60	91.17	83.38	-91.87	5,056.27	-4,840.50	3,341.38	3,171.64	169.74	19.685		
10,900.00	6,027.00	10,753.00	6,092.65	92.83	84.18	-91.87	5,103.58	-4,837.70	3,335.04	3,162.41	172.62	19.320		
11,000.00	6,027.00	10,753.00	6,092.65	94.49	84.18	-91.87	5,103.58	-4,837.70	3,330.59	3,155.64	174.95	19.038		
11,100.00	6,027.00	10,792.66	6,092.69	96.16	84.86	-91.87	5,143.23	-4,836.63	3,328.27	3,150.63	177.64	18.736		
11,152.22	6,027.00	10,806.92	6,092.70	97.03	85.10	-91.87	5,157.49	-4,836.55	3,327.97	3,149.03	178.95	18.598 CC		
11,200.00	6,027.00	10,840.00	6,092.74	97.83	85.66	-91.87	5,190.56	-4,836.99	3,328.44	3,148.05	180.39	18.451		
11,300.00	6,027.00	10,864.49	6,092.76	99.50	86.08	-91.87	5,215.04	-4,837.65	3,330.29	3,147.51	182.78	18.220		
11,400.00	6,027.00	11,022.71	6,092.91	101.18	88.79	-91.87	5,373.21	-4,841.26	3,332.80	3,145.76	187.04	17.819		
11,500.00	6,027.00	11,080.92	6,092.87	102.86	89.79	-91.87	5,431.42	-4,842.28	3,334.47	3,144.56	189.90	17.559		
11,600.00	6,027.00	11,168.19	6,092.55	104.54	91.28	-91.86	5,518.66	-4,844.53	3,337.00	3,143.82	193.17	17.275 ES		
11,700.00	6,027.00	11,203.00	6,092.42	106.23	91.88	-91.86	5,553.46	-4,845.45	3,340.23	3,144.59	195.64	17.073		
11,800.00	6,027.00	11,203.00	6,092.42	107.92	91.88	-91.86	5,553.46	-4,845.45	3,346.26	3,148.82	197.45	16.948		
11,900.00	6,027.00	11,203.00	6,092.42	109.61	91.88	-91.86	5,553.46	-4,845.45	3,355.27	3,156.19	199.08	16.854		
12,000.00	6,027.00	11,203.00	6,092.42	111.31	91.88	-91.86	5,553.46	-4,845.45	3,367.22	3,166.67	200.55	16.790		
12,100.00	6,027.00	11,203.00	6,092.42	113.00	91.88	-91.86	5,553.46	-4,845.45	3,382.09	3,180.25	201.84	16.756		
12,200.00	6,027.00	11,203.00	6,092.42	114.71	91.88	-91.86	5,553.46	-4,845.45	3,399.84	3,196.87	202.97	16.750 SF		
12,300.00	6,027.00	11,203.00	6,092.42	116.41	91.88	-91.86	5,553.46	-4,845.45	3,420.42	3,216.50	203.93	16.773		
12,400.00	6,027.00	11,203.00	6,092.42	118.11	91.88	-91.86	5,553.46	-4,845.45	3,443.78	3,239.07	204.72	16.822		
12,500.00	6,027.00	11,203.00	6,092.42	119.82	91.88	-91.86	5,553.46	-4,845.45	3,469.87	3,264.52	205.35	16.897		
12,600.00	6,027.00	11,203.00	6,092.42	121.53	91.88	-91.86	5,553.46	-4,845.45	3,498.62	3,292.80	205.83	16.998		
12,700.00	6,027.00	11,203.00	6,092.42	123.24	91.88	-91.86	5,553.46	-4,845.45	3,529.98	3,323.82	206.15	17.123		
12,800.00	6,027.00	11,203.00	6,092.42	124.95	91.88	-91.86	5,553.46	-4,845.45	3,563.86	3,357.52	206.34	17.272		
12,900.00	6,027.00	11,203.00	6,092.42	126.66	91.88	-91.86	5,553.46	-4,845.45	3,600.20	3,393.81	206.39	17.444		
13,000.00	6,027.00	11,203.00	6,092.42	128.38	91.88	-91.86	5,553.46	-4,845.45	3,638.93	3,432.61	206.32	17.638		
13,100.00	6,027.00	11,203.00	6,092.42	130.10	91.88	-91.86	5,553.46	-4,845.45	3,679.97	3,473.85	206.12	17.853		
13,200.00	6,027.00	11,203.00	6,092.42	131.82	91.88	-91.86	5,553.46	-4,845.45	3,723.24	3,517.42	205.82	18.090		
13,300.00	6,027.00	11,203.00	6,092.42	133.54	91.88	-91.86	5,553.46	-4,845.45	3,768.67	3,563.25	205.42	18.346		
13,400.00	6,027.00	11,203.00	6,092.42	135.26	91.88	-91.86	5,553.46	-4,845.45	3,816.18	3,611.26	204.92	18.623		
13,500.00	6,027.00	11,203.00	6,092.42	136.98	91.88	-91.86	5,553.46	-4,845.45	3,865.70	3,661.36	204.34	18.918		
13,600.00	6,027.00	11,203.00	6,092.42	138.71	91.88	-91.86	5,553.46	-4,845.45	3,917.14	3,713.46	203.68	19.232		
13,700.00	6,027.00	11,203.00	6,092.42	140.43	91.88	-91.86	5,553.46	-4,845.45	3,970.43	3,767.48	202.96	19.563		
13,800.00	6,027.00	11,203.00	6,092.42	142.16	91.88	-91.86	5,553.46	-4,845.45	4,025.51	3,823.34	202.17	19.912		
13,900.00	6,027.00	11,203.00	6,092.42	143.89	91.88	-91.86	5,553.46	-4,845.45	4,082.29	3,880.96	201.32	20.277		
14,000.00	6,027.00	11,203.00	6,092.42	145.62	91.88	-91.86	5,553.46	-4,845.45	4,140.70	3,940.27	200.43	20.659		
14,100.00	6,027.00	11,203.00	6,092.42	147.35	91.88	-91.86	5,553.46	-4,845.45	4,200.69	4,001.19	199.50	21.056		
14,200.00	6,027.00	11,203.00	6,092.42	149.08	91.88	-91.86	5,553.46	-4,845.45	4,262.18	4,063.65	198.53	21.469		
14,300.00	6,027.00	11,203.00	6,092.42	150.81	91.88	-91.86	5,553.46	-4,845.45	4,325.10	4,127.58	197.53	21.896		
14,400.00	6,027.00	11,203.00	6,092.42	152.54	91.88	-91.86	5,553.46	-4,845.45	4,389.41	4,192.91	196.50	22.338		
14,500.00	6,027.00	11,203.00	6,092.42	154.28	91.88	-91.86	5,553.46	-4,845.45	4,455.02	4,259.57	195.45	22.793		
14,600.00	6,027.00	11,203.00	6,092.42	156.01	91.88	-91.86	5,553.46	-4,845.45	4,521.90	4,327.51	194.39	23.262		
14,700.00	6,027.00	11,203.00	6,092.42	157.75	91.88	-91.86	5,553.46	-4,845.45	4,589.98	4,396.67	193.31	23.744		
14,800.00	6,027.00	11,203.00	6,092.42	159.49	91.88	-91.86	5,553.46	-4,845.45	4,659.22	4,466.99	192.22	24.238		
14,900.00	6,027.00	11,203.00	6,092.42	161.22	91.88	-91.86	5,553.46	-4,845.45	4,729.55	4,538.42	191.13	24.745		
15,000.00	6,027.00	11,203.00	6,092.42	162.96	91.88	-91.86	5,553.46	-4,845.45	4,800.94	4,610.91	190.04	25.263		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 124-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,027.00	11,203.00	6,092.42	164.70	91.88	-91.86	5,553.46	-4,845.45	4,873.34	4,684.40	188.94	25.793		
15,200.00	6,027.00	11,203.00	6,092.42	166.44	91.88	-91.86	5,553.46	-4,845.45	4,946.69	4,758.85	187.85	26.334		
15,300.00	6,027.00	11,203.00	6,092.42	168.18	91.88	-91.86	5,553.46	-4,845.45	5,020.97	4,834.21	186.76	26.885		
15,400.00	6,027.00	11,203.00	6,092.42	169.93	91.88	-91.86	5,553.46	-4,845.45	5,096.13	4,910.45	185.67	27.447		
15,500.00	6,027.00	11,203.00	6,092.42	171.67	91.88	-91.86	5,553.46	-4,845.45	5,172.12	4,987.53	184.59	28.019		
15,600.00	6,027.00	11,203.00	6,092.42	173.41	91.88	-91.86	5,553.46	-4,845.45	5,248.92	5,065.40	183.53	28.600		
15,700.00	6,027.00	11,203.00	6,092.42	175.15	91.88	-91.86	5,553.46	-4,845.45	5,326.50	5,144.03	182.47	29.191		
15,800.00	6,027.00	11,203.00	6,092.42	176.90	91.88	-91.86	5,553.46	-4,845.45	5,404.81	5,223.39	181.42	29.791		
15,900.00	6,027.00	11,203.00	6,092.42	178.64	91.88	-91.86	5,553.46	-4,845.45	5,483.82	5,303.44	180.39	30.400		
16,000.00	6,027.00	11,203.00	6,092.42	180.39	91.88	-91.86	5,553.46	-4,845.45	5,563.51	5,384.15	179.36	31.018		
16,100.00	6,027.00	11,203.00	6,092.42	182.13	91.88	-91.86	5,553.46	-4,845.45	5,643.85	5,465.49	178.36	31.644		
16,200.00	6,027.00	11,203.00	6,092.42	183.88	91.88	-91.86	5,553.46	-4,845.45	5,724.80	5,547.44	177.36	32.277		
16,300.00	6,027.00	11,203.00	6,092.42	185.63	91.88	-91.86	5,553.46	-4,845.45	5,806.35	5,629.97	176.38	32.919		
16,400.00	6,027.00	11,203.00	6,092.42	187.38	91.88	-91.86	5,553.46	-4,845.45	5,888.47	5,713.05	175.42	33.568		
16,500.00	6,027.00	11,203.00	6,092.42	189.12	91.88	-91.86	5,553.46	-4,845.45	5,971.14	5,796.66	174.47	34.224		
16,600.00	6,027.00	11,203.00	6,092.42	190.87	91.88	-91.86	5,553.46	-4,845.45	6,054.32	5,880.78	173.54	34.887		
16,700.00	6,027.00	11,203.00	6,092.42	192.62	91.88	-91.86	5,553.46	-4,845.45	6,138.01	5,965.39	172.62	35.557		
16,795.97	6,027.00	11,203.00	6,092.42	194.30	91.88	-91.86	5,553.46	-4,845.45	6,218.78	6,047.02	171.76	36.206		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - STK 1 - STK 1		Offset Site Error: 0.00 usft	
Survey Program:		124-MWD OWSG, 6356-MWD OWSG											Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance								Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
100.00	100.00	84.26	84.26	0.27	0.13	-83.17	661.49	-5,526.85	5,566.37	5,565.97	0.40	N/A				
200.00	200.00	190.73	190.72	0.63	0.43	-83.17	661.53	-5,526.16	5,565.72	5,564.66	1.06	5,258.139				
300.00	300.00	277.80	277.79	0.99	0.74	-83.17	661.47	-5,525.73	5,565.22	5,563.49	1.73	3,221.412				
400.00	400.00	381.86	381.86	1.34	1.11	-83.18	661.15	-5,525.38	5,564.85	5,562.39	2.46	2,265.358				
500.00	500.00	496.33	496.32	1.70	1.52	-83.18	660.65	-5,524.76	5,564.26	5,561.04	3.22	1,725.767				
600.00	600.00	604.07	604.06	2.06	1.91	-83.18	660.26	-5,523.95	5,563.47	5,559.50	3.97	1,401.973				
700.00	700.00	693.58	693.56	2.42	2.23	-83.18	660.25	-5,523.22	5,562.66	5,558.02	4.65	1,197.244				
800.00	800.00	785.59	785.57	2.78	2.56	-83.19	659.96	-5,522.78	5,562.15	5,556.82	5.33	1,042.899				
900.00	900.00	879.53	879.51	3.14	2.89	-83.19	659.70	-5,522.33	5,561.64	5,555.61	6.03	922.637				
1,000.00	999.98	988.09	988.07	3.49	3.28	6.07	659.61	-5,521.90	5,559.51	5,552.74	6.76	821.948				
1,100.00	1,099.84	1,085.87	1,085.85	3.83	3.62	6.10	660.07	-5,521.28	5,553.74	5,546.28	7.45	745.263				
1,200.00	1,199.45	1,156.22	1,156.20	4.19	3.86	6.13	660.33	-5,521.06	5,544.80	5,536.76	8.04	689.639				
1,300.00	1,298.70	1,234.35	1,234.33	4.55	4.12	6.16	660.31	-5,521.24	5,532.91	5,524.25	8.65	639.478				
1,400.00	1,397.47	1,315.99	1,315.97	4.94	4.39	6.21	660.37	-5,521.68	5,517.88	5,508.61	9.28	594.765				
1,500.00	1,495.62	1,418.51	1,418.48	5.34	4.74	6.27	660.39	-5,522.45	5,499.66	5,489.68	9.98	551.179				
1,600.00	1,593.06	1,523.76	1,523.73	5.78	5.10	6.35	660.72	-5,522.96	5,477.80	5,467.10	10.69	512.191				
1,700.00	1,689.64	1,652.67	1,652.64	6.24	5.54	6.46	661.40	-5,523.22	5,452.34	5,440.84	11.50	474.066				
1,800.00	1,785.27	1,748.18	1,748.14	6.75	5.88	6.55	660.71	-5,523.10	5,423.08	5,410.88	12.20	444.462				
1,900.00	1,880.44	1,845.84	1,845.80	7.30	6.22	6.60	661.30	-5,522.94	5,392.47	5,379.56	12.90	417.965				
2,000.00	1,975.60	2,847.69	2,838.05	7.86	9.95	6.21	584.22	-5,442.40	5,350.12	5,333.49	16.63	321.618				
2,100.00	2,070.77	2,920.00	2,909.02	8.43	10.25	6.16	576.29	-5,431.01	5,303.90	5,286.65	17.26	307.295				
2,200.00	2,165.93	2,988.70	2,976.45	9.02	10.54	6.11	568.44	-5,420.46	5,258.00	5,240.12	17.88	294.062				
2,300.00	2,261.10	3,057.13	3,043.62	9.62	10.83	6.05	560.04	-5,410.44	5,212.59	5,194.08	18.51	281.651				
2,400.00	2,356.26	3,189.92	3,173.94	10.23	11.40	5.93	543.66	-5,390.91	5,167.24	5,147.89	19.35	267.037				
2,500.00	2,451.43	3,391.13	3,371.40	10.84	12.27	5.84	526.72	-5,356.42	5,119.77	5,099.38	20.39	251.081				
2,600.00	2,546.59	3,495.58	3,473.90	11.46	12.72	5.84	521.44	-5,337.04	5,071.66	5,050.55	21.12	240.165				
2,700.00	2,641.76	3,585.44	3,562.09	12.09	13.10	5.87	519.18	-5,319.93	5,023.37	5,001.58	21.80	230.448				
2,800.00	2,736.92	3,664.02	3,639.21	12.72	13.44	5.89	516.75	-5,305.09	4,975.16	4,952.71	22.45	221.597				
2,900.00	2,832.09	3,735.87	3,709.72	13.35	13.76	5.89	512.82	-5,291.88	4,927.17	4,904.08	23.09	213.359				
3,000.00	2,927.25	3,800.00	3,772.63	13.99	14.05	5.87	507.70	-5,280.53	4,879.54	4,855.82	23.72	205.705				
3,100.00	3,022.42	3,846.12	3,817.85	14.63	14.26	5.83	502.99	-5,272.80	4,832.51	4,808.20	24.31	198.822				
3,200.00	3,117.58	3,888.00	3,858.90	15.27	14.45	5.79	497.93	-5,266.24	4,786.27	4,761.39	24.88	192.365				
3,300.00	3,212.75	3,932.49	3,902.50	15.91	14.65	5.74	491.88	-5,259.77	4,740.89	4,715.42	25.47	186.121				
3,400.00	3,307.91	3,977.00	3,946.12	16.56	14.86	5.68	485.28	-5,253.84	4,696.41	4,670.34	26.07	180.173				
3,500.00	3,403.08	4,037.67	4,005.55	17.20	15.13	5.58	475.69	-5,246.29	4,652.66	4,625.94	26.72	174.150				
3,600.00	3,498.24	4,096.21	4,062.87	17.85	15.40	5.48	466.06	-5,239.37	4,609.44	4,582.08	27.36	168.450				
3,700.00	3,593.41	4,154.00	4,119.49	18.50	15.66	5.38	456.33	-5,233.03	4,566.93	4,538.91	28.01	163.032				
3,800.00	3,688.57	4,223.19	4,187.27	19.15	15.97	5.26	444.48	-5,225.86	4,524.97	4,496.27	28.70	157.658				
3,900.00	3,783.74	4,541.51	4,499.13	19.81	17.45	4.76	397.07	-5,184.12	4,480.52	4,450.39	30.13	148.705				
4,000.00	3,878.90	4,611.65	4,567.84	20.46	17.78	4.68	388.28	-5,173.19	4,434.41	4,403.59	30.82	143.903				
4,100.00	3,974.07	4,682.00	4,636.77	21.11	18.11	4.58	379.04	-5,162.57	4,388.69	4,357.19	31.51	139.301				
4,200.00	4,069.23	4,759.61	4,712.85	21.77	18.48	4.47	368.78	-5,151.12	4,343.29	4,311.07	32.22	134.810				
4,300.00	4,164.40	4,805.45	4,757.79	22.42	18.70	4.40	362.61	-5,144.61	4,298.39	4,265.54	32.85	130.856				
4,400.00	4,259.56	4,859.00	4,810.29	23.08	18.95	4.31	354.53	-5,137.79	4,254.55	4,221.04	33.50	126.989				
4,500.00	4,354.73	4,948.15	4,897.67	23.74	19.37	4.15	340.57	-5,126.86	4,211.22	4,176.96	34.26	122.905				
4,600.00	4,449.89	5,244.00	5,187.61	24.39	20.78	3.72	303.30	-5,082.25	4,166.13	4,130.60	35.52	117.274				
4,700.00	4,545.06	5,368.94	5,310.02	25.05	21.37	3.65	294.35	-5,058.85	4,117.74	4,081.43	36.31	113.404				
4,800.00	4,640.22	5,454.82	5,394.14	25.71	21.77	3.62	289.62	-5,042.27	4,068.95	4,031.94	37.01	109.935				
4,900.00	4,735.39	5,510.89	5,449.09	26.37	22.03	3.59	286.18	-5,031.66	4,020.51	3,982.84	37.66	106.744				
5,000.00	4,830.55	5,767.20	5,696.42	27.03	23.02	4.12	308.83	-4,977.82	3,971.33	3,932.88	38.45	103.279				
5,100.00	4,925.72	5,830.00	5,752.83	27.69	23.19	4.55	332.06	-4,963.05	3,920.19	3,881.17	39.02	100.461				
5,200.00	5,020.88	6,091.00	5,952.28	28.35	23.60	7.41	484.94	-4,898.64	3,868.40	3,828.76	39.65	97.574				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 124-MWD OWSG, 6356-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	6,091.00	5,952.28	29.01	23.60	7.41	484.94	-4,898.64	3,815.83	3,775.59	40.24	94.819		
5,400.00	5,211.21	6,091.00	5,952.28	29.67	23.60	7.41	484.94	-4,898.64	3,765.18	3,724.34	40.84	92.196		
5,500.00	5,306.38	6,131.81	5,977.25	30.33	23.63	7.98	515.58	-4,888.52	3,715.38	3,673.88	41.50	89.530		
5,600.00	5,401.54	6,141.44	5,982.90	30.99	23.64	8.12	523.09	-4,886.42	3,668.17	3,626.06	42.11	87.114		
5,700.00	5,496.71	6,179.00	6,004.03	31.65	23.68	3.88	553.29	-4,879.29	3,623.51	3,580.74	42.77	84.719		
5,800.00	5,591.13	6,179.00	6,004.03	32.30	23.68	-28.09	553.29	-4,879.29	3,578.80	3,535.50	43.30	82.644		
5,900.00	5,682.22	6,179.00	6,004.03	32.92	23.68	-49.78	553.29	-4,879.29	3,535.30	3,491.55	43.75	80.809		
6,000.00	5,767.23	6,179.00	6,004.03	33.50	23.68	-63.88	553.29	-4,879.29	3,494.41	3,450.28	44.13	79.184		
6,100.00	5,843.56	6,179.00	6,004.03	34.04	23.68	-73.53	553.29	-4,879.29	3,457.49	3,412.99	44.50	77.704		
6,200.00	5,908.90	6,230.91	6,029.99	34.53	23.68	-80.25	597.60	-4,871.91	3,424.03	3,379.03	44.99	76.099		
6,300.00	5,961.25	6,268.00	6,045.72	34.99	23.70	-85.16	630.99	-4,868.29	3,397.08	3,351.56	45.52	74.628		
6,400.00	5,999.04	6,268.00	6,045.72	35.42	23.70	-88.55	630.99	-4,868.29	3,376.46	3,330.34	46.12	73.209		
6,500.00	6,021.11	6,332.58	6,067.40	35.83	25.03	-90.71	691.61	-4,863.79	3,362.63	3,315.78	46.85	71.773		
6,600.00	6,027.00	6,356.00	6,073.46	36.24	25.53	-91.53	714.19	-4,862.46	3,356.01	3,308.32	47.69	70.370		
6,700.00	6,027.00	6,444.00	6,088.41	36.68	25.59	-91.79	800.78	-4,859.36	3,352.91	3,304.34	48.58	69.024		
6,800.00	6,027.00	6,472.68	6,090.83	37.20	25.61	-91.83	829.35	-4,858.98	3,351.33	3,301.62	49.71	67.417		
6,900.00	6,027.00	6,664.28	6,092.92	37.80	25.94	-91.86	1,020.86	-4,856.27	3,350.56	3,299.48	51.07	65.601		
7,000.00	6,027.00	6,764.15	6,093.07	38.47	26.25	-91.87	1,120.68	-4,852.80	3,347.07	3,294.43	52.64	63.589		
7,100.00	6,027.00	6,835.02	6,093.23	39.21	26.54	-91.87	1,191.51	-4,850.54	3,343.93	3,289.66	54.27	61.615		
7,200.00	6,027.00	6,885.00	6,093.40	40.02	26.78	-91.88	1,241.48	-4,849.53	3,341.99	3,286.05	55.94	59.744		
7,300.00	6,027.00	6,973.00	6,093.68	40.89	27.28	-91.88	1,329.48	-4,848.83	3,341.18	3,283.29	57.89	57.721		
7,324.21	6,027.00	6,973.00	6,093.68	41.11	27.28	-91.88	1,329.48	-4,848.83	3,341.09	3,282.81	58.28	57.331		
7,400.00	6,027.00	7,017.28	6,093.78	41.83	27.57	-91.88	1,373.76	-4,849.02	3,341.43	3,281.69	59.74	55.935		
7,500.00	6,027.00	7,091.20	6,093.87	42.83	28.10	-91.88	1,447.66	-4,850.24	3,342.98	3,281.16	61.81	54.083		
7,600.00	6,027.00	7,150.00	6,093.94	43.88	28.56	-91.88	1,506.46	-4,851.10	3,344.79	3,280.91	63.88	52.365		
7,700.00	6,027.00	7,238.00	6,094.05	44.99	29.32	-91.88	1,594.40	-4,854.00	3,348.05	3,281.85	66.21	50.571		
7,800.00	6,027.00	7,657.39	6,093.44	46.14	33.94	-91.88	2,013.43	-4,848.31	3,346.89	3,275.50	71.39	46.883		
7,900.00	6,027.00	7,736.46	6,093.15	47.33	34.94	-91.88	2,092.37	-4,843.76	3,341.09	3,267.16	73.93	45.192		
8,000.00	6,027.00	7,763.00	6,093.08	48.57	35.28	-91.87	2,118.86	-4,842.29	3,336.30	3,260.27	76.03	43.882		
8,100.00	6,027.00	7,801.82	6,093.04	49.84	35.79	-91.87	2,157.66	-4,840.93	3,333.41	3,255.13	78.28	42.584		
8,165.00	6,027.00	7,816.66	6,093.04	50.69	35.98	-91.87	2,172.49	-4,840.81	3,332.87	3,253.22	79.65	41.843 CC		
8,200.00	6,027.00	7,851.00	6,093.08	51.15	36.43	-91.88	2,206.83	-4,841.39	3,333.45	3,252.80	80.65	41.334		
8,204.45	6,027.00	7,851.00	6,093.08	51.21	36.43	-91.88	2,206.83	-4,841.39	3,333.45	3,252.72	80.73	41.290		
8,300.00	6,027.00	7,851.00	6,093.08	52.48	36.43	-91.88	2,206.83	-4,841.39	3,334.90	3,252.37	82.53	40.407		
8,400.00	6,027.00	7,851.00	6,093.08	53.85	36.43	-91.88	2,206.83	-4,841.39	3,339.35	3,254.95	84.40	39.565		
8,500.00	6,027.00	7,898.37	6,093.20	55.24	37.05	-91.88	2,254.12	-4,843.99	3,345.48	3,258.70	86.78	38.553		
8,600.00	6,027.00	7,941.00	6,093.32	56.65	37.62	-91.88	2,296.57	-4,847.98	3,354.25	3,265.16	89.09	37.649		
8,700.00	6,027.00	8,302.09	6,093.57	58.08	42.67	-91.87	2,656.57	-4,871.63	3,363.95	3,268.75	95.19	35.338		
8,800.00	6,027.00	8,378.00	6,093.46	59.54	43.79	-91.86	2,732.47	-4,872.86	3,365.59	3,267.56	98.03	34.333		
8,900.00	6,027.00	8,428.91	6,093.38	61.01	44.55	-91.86	2,783.35	-4,874.23	3,368.37	3,267.79	100.58	33.489		
9,000.00	6,027.00	8,466.00	6,093.37	62.50	45.11	-91.86	2,820.41	-4,875.84	3,372.83	3,269.87	102.96	32.760		
9,100.00	6,027.00	8,466.00	6,093.37	64.01	45.11	-91.86	2,820.41	-4,875.84	3,379.79	3,274.96	104.83	32.242		
9,200.00	6,027.00	9,185.23	6,092.66	65.53	56.30	-91.85	3,537.49	-4,875.13	3,383.23	3,267.99	115.24	29.359		
9,300.00	6,027.00	9,235.95	6,092.65	67.06	57.12	-91.85	3,588.02	-4,870.69	3,374.29	3,256.31	117.99	28.599		
9,400.00	6,027.00	9,257.00	6,092.65	68.61	57.46	-91.85	3,609.00	-4,868.97	3,366.87	3,246.45	120.43	27.958		
9,500.00	6,027.00	9,295.36	6,092.65	70.17	58.07	-91.85	3,647.28	-4,866.63	3,361.36	3,238.33	123.03	27.321		
9,600.00	6,027.00	9,346.00	6,092.56	71.73	58.89	-91.85	3,697.91	-4,865.77	3,358.76	3,233.00	125.76	26.709		
9,692.65	6,027.00	9,346.00	6,092.56	73.20	58.89	-91.85	3,697.91	-4,865.77	3,357.48	3,229.78	127.70	26.292		
9,700.00	6,027.00	9,346.00	6,092.56	73.31	58.89	-91.85	3,697.91	-4,865.77	3,357.49	3,229.63	127.85	26.261		
9,800.00	6,027.00	9,392.92	6,092.47	74.90	59.66	-91.85	3,744.83	-4,866.38	3,358.62	3,228.13	130.49	25.738		
9,900.00	6,027.00	9,484.62	6,092.45	76.50	61.15	-91.85	3,836.50	-4,868.52	3,360.90	3,227.19	133.71	25.136		
10,000.00	6,027.00	9,758.33	6,092.72	78.10	65.65	-91.86	4,110.16	-4,866.86	3,360.12	3,220.92	139.21	24.138		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - STK 1 - STK 1		Offset Site Error: 0.00 usft	
Survey Program:		124-MWD OWSG, 6356-MWD OWSG											Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,100.00	6,027.00	9,870.00	6,092.63	79.71	67.50	-91.86	4,221.76	-4,863.01	3,356.64	3,213.96	142.68	23.525				
10,200.00	6,027.00	9,916.24	6,092.68	81.33	68.26	-91.86	4,267.99	-4,861.92	3,354.10	3,208.69	145.41	23.067				
10,300.00	6,027.00	9,958.00	6,092.82	82.96	68.96	-91.86	4,309.75	-4,861.33	3,352.93	3,204.88	148.05	22.648				
10,353.29	6,027.00	10,006.80	6,092.96	83.82	69.77	-91.86	4,358.55	-4,861.11	3,352.70	3,202.91	149.79	22.383				
10,400.00	6,027.00	10,047.00	6,092.95	84.59	70.44	-91.86	4,398.75	-4,861.27	3,352.86	3,201.58	151.28	22.163				
10,500.00	6,027.00	10,119.21	6,092.93	86.23	71.65	-91.86	4,470.95	-4,861.94	3,353.68	3,199.37	154.30	21.734				
10,600.00	6,027.00	10,219.18	6,093.02	87.87	73.33	-91.86	4,570.92	-4,863.01	3,354.73	3,197.03	157.70	21.273				
10,700.00	6,027.00	10,552.00	6,092.52	89.52	78.92	-91.86	4,903.50	-4,856.81	3,354.14	3,190.28	163.86	20.470				
10,800.00	6,027.00	10,552.00	6,092.52	91.17	78.92	-91.86	4,903.50	-4,856.81	3,349.72	3,183.57	166.15	20.161				
10,898.24	6,027.00	10,552.00	6,092.52	92.80	78.92	-91.86	4,903.50	-4,856.81	3,348.27	3,179.99	168.28	19.897				
10,900.00	6,027.00	10,552.00	6,092.52	92.83	78.92	-91.86	4,903.50	-4,856.81	3,348.28	3,179.96	168.32	19.893				
11,000.00	6,027.00	10,552.00	6,092.52	94.49	78.92	-91.86	4,903.50	-4,856.81	3,349.82	3,179.46	170.36	19.664	ES			
11,100.00	6,027.00	10,552.00	6,092.52	96.16	78.92	-91.86	4,903.50	-4,856.81	3,354.35	3,182.09	172.26	19.473				
11,200.00	6,027.00	10,552.00	6,092.52	97.83	78.92	-91.86	4,903.50	-4,856.81	3,361.85	3,187.82	174.02	19.319				
11,300.00	6,027.00	10,552.00	6,092.52	99.50	78.92	-91.86	4,903.50	-4,856.81	3,372.29	3,196.65	175.64	19.200				
11,400.00	6,027.00	10,552.00	6,092.52	101.18	78.92	-91.86	4,903.50	-4,856.81	3,385.66	3,208.55	177.11	19.116				
11,500.00	6,027.00	10,552.00	6,092.52	102.86	78.92	-91.86	4,903.50	-4,856.81	3,401.92	3,223.48	178.44	19.065				
11,600.00	6,027.00	10,552.00	6,092.52	104.54	78.92	-91.86	4,903.50	-4,856.81	3,421.03	3,241.41	179.62	19.046	SF			
11,700.00	6,027.00	10,552.00	6,092.52	106.23	78.92	-91.86	4,903.50	-4,856.81	3,442.93	3,262.28	180.66	19.058				
11,800.00	6,027.00	10,552.00	6,092.52	107.92	78.92	-91.86	4,903.50	-4,856.81	3,467.58	3,286.03	181.55	19.100				
11,900.00	6,027.00	10,552.00	6,092.52	109.61	78.92	-91.86	4,903.50	-4,856.81	3,494.92	3,312.62	182.30	19.171				
12,000.00	6,027.00	10,552.00	6,092.52	111.31	78.92	-91.86	4,903.50	-4,856.81	3,524.89	3,341.96	182.93	19.269				
12,100.00	6,027.00	10,552.00	6,092.52	113.00	78.92	-91.86	4,903.50	-4,856.81	3,557.41	3,373.99	183.42	19.395				
12,200.00	6,027.00	10,552.00	6,092.52	114.71	78.92	-91.86	4,903.50	-4,856.81	3,592.43	3,408.64	183.79	19.546				
12,300.00	6,027.00	10,552.00	6,092.52	116.41	78.92	-91.86	4,903.50	-4,856.81	3,629.86	3,445.82	184.04	19.723				
12,400.00	6,027.00	10,552.00	6,092.52	118.11	78.92	-91.86	4,903.50	-4,856.81	3,669.64	3,485.45	184.19	19.924				
12,500.00	6,027.00	10,552.00	6,092.52	119.82	78.92	-91.86	4,903.50	-4,856.81	3,711.68	3,527.46	184.23	20.147				
12,600.00	6,027.00	10,552.00	6,092.52	121.53	78.92	-91.86	4,903.50	-4,856.81	3,755.92	3,571.75	184.17	20.394				
12,700.00	6,027.00	10,552.00	6,092.52	123.24	78.92	-91.86	4,903.50	-4,856.81	3,802.28	3,618.25	184.02	20.662				
12,800.00	6,027.00	10,552.00	6,092.52	124.95	78.92	-91.86	4,903.50	-4,856.81	3,850.67	3,666.87	183.80	20.951				
12,900.00	6,027.00	10,552.00	6,092.52	126.66	78.92	-91.86	4,903.50	-4,856.81	3,901.03	3,717.53	183.49	21.260				
13,000.00	6,027.00	10,552.00	6,092.52	128.38	78.92	-91.86	4,903.50	-4,856.81	3,953.27	3,770.15	183.12	21.588				
13,100.00	6,027.00	10,552.00	6,092.52	130.10	78.92	-91.86	4,903.50	-4,856.81	4,007.33	3,824.65	182.69	21.936				
13,200.00	6,027.00	10,552.00	6,092.52	131.82	78.92	-91.86	4,903.50	-4,856.81	4,063.13	3,880.94	182.20	22.301				
13,300.00	6,027.00	10,552.00	6,092.52	133.54	78.92	-91.86	4,903.50	-4,856.81	4,120.61	3,938.95	181.66	22.684				
13,400.00	6,027.00	10,552.00	6,092.52	135.26	78.92	-91.86	4,903.50	-4,856.81	4,179.69	3,998.61	181.07	23.083				
13,500.00	6,027.00	10,552.00	6,092.52	136.98	78.92	-91.86	4,903.50	-4,856.81	4,240.30	4,059.85	180.45	23.499				
13,600.00	6,027.00	10,552.00	6,092.52	138.71	78.92	-91.86	4,903.50	-4,856.81	4,302.38	4,122.59	179.79	23.930				
13,700.00	6,027.00	10,552.00	6,092.52	140.43	78.92	-91.86	4,903.50	-4,856.81	4,365.87	4,186.77	179.10	24.377				
13,800.00	6,027.00	10,552.00	6,092.52	142.16	78.92	-91.86	4,903.50	-4,856.81	4,430.71	4,252.32	178.39	24.838				
13,900.00	6,027.00	10,552.00	6,092.52	143.89	78.92	-91.86	4,903.50	-4,856.81	4,496.84	4,319.18	177.65	25.312				
14,000.00	6,027.00	10,552.00	6,092.52	145.62	78.92	-91.86	4,903.50	-4,856.81	4,564.20	4,387.30	176.90	25.801				
14,100.00	6,027.00	10,552.00	6,092.52	147.35	78.92	-91.86	4,903.50	-4,856.81	4,632.74	4,456.60	176.13	26.302				
14,200.00	6,027.00	10,552.00	6,092.52	149.08	78.92	-91.86	4,903.50	-4,856.81	4,702.40	4,527.05	175.36	26.816				
14,300.00	6,027.00	10,552.00	6,092.52	150.81	78.92	-91.86	4,903.50	-4,856.81	4,773.15	4,598.58	174.57	27.342				
14,400.00	6,027.00	10,552.00	6,092.52	152.54	78.92	-91.86	4,903.50	-4,856.81	4,844.93	4,671.15	173.78	27.880				
14,500.00	6,027.00	10,552.00	6,092.52	154.28	78.92	-91.86	4,903.50	-4,856.81	4,917.69	4,744.70	172.98	28.429				
14,600.00	6,027.00	10,552.00	6,092.52	156.01	78.92	-91.86	4,903.50	-4,856.81	4,991.39	4,819.21	172.19	28.988				
14,700.00	6,027.00	10,552.00	6,092.52	157.75	78.92	-91.86	4,903.50	-4,856.81	5,066.00	4,894.61	171.39	29.558				
14,800.00	6,027.00	10,552.00	6,092.52	159.49	78.92	-91.86	4,903.50	-4,856.81	5,141.47	4,970.87	170.60	30.138				
14,900.00	6,027.00	10,552.00	6,092.52	161.22	78.92	-91.86	4,903.50	-4,856.81	5,217.76	5,047.96	169.80	30.728				
15,000.00	6,027.00	10,552.00	6,092.52	162.96	78.92	-91.86	4,903.50	-4,856.81	5,294.85	5,125.83	169.02	31.327				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - STK 1 - STK 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 124-MWD OWSG, 6356-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,100.00	6,027.00	10,552.00	6,092.52	164.70	78.92	-91.86	4,903.50	-4,856.81	5,372.69	5,204.45	168.24	31.935	
15,200.00	6,027.00	10,552.00	6,092.52	166.44	78.92	-91.86	4,903.50	-4,856.81	5,451.25	5,283.78	167.47	32.552	
15,300.00	6,027.00	10,552.00	6,092.52	168.18	78.92	-91.86	4,903.50	-4,856.81	5,530.50	5,363.80	166.70	33.176	
15,400.00	6,027.00	10,552.00	6,092.52	169.93	78.92	-91.86	4,903.50	-4,856.81	5,610.42	5,444.48	165.94	33.809	
15,500.00	6,027.00	10,552.00	6,092.52	171.67	78.92	-91.86	4,903.50	-4,856.81	5,690.97	5,525.78	165.20	34.450	
15,600.00	6,027.00	10,552.00	6,092.52	173.41	78.92	-91.86	4,903.50	-4,856.81	5,772.13	5,607.68	164.46	35.098	
15,700.00	6,027.00	10,552.00	6,092.52	175.15	78.92	-91.86	4,903.50	-4,856.81	5,853.88	5,690.15	163.73	35.753	
15,800.00	6,027.00	10,552.00	6,092.52	176.90	78.92	-91.86	4,903.50	-4,856.81	5,936.18	5,773.17	163.02	36.415	
15,900.00	6,027.00	10,552.00	6,092.52	178.64	78.92	-91.86	4,903.50	-4,856.81	6,019.02	5,856.71	162.31	37.083	
16,000.00	6,027.00	10,552.00	6,092.52	180.39	78.92	-91.86	4,903.50	-4,856.81	6,102.37	5,940.76	161.62	37.758	
16,100.00	6,027.00	10,552.00	6,092.52	182.13	78.92	-91.86	4,903.50	-4,856.81	6,186.22	6,025.28	160.93	38.439	
16,200.00	6,027.00	10,552.00	6,092.52	183.88	78.92	-91.86	4,903.50	-4,856.81	6,270.54	6,110.27	160.26	39.126	
16,300.00	6,027.00	10,552.00	6,092.52	185.63	78.92	-91.86	4,903.50	-4,856.81	6,355.31	6,195.71	159.61	39.819	
16,400.00	6,027.00	10,552.00	6,092.52	187.38	78.92	-91.86	4,903.50	-4,856.81	6,440.52	6,281.56	158.96	40.517	
16,500.00	6,027.00	10,552.00	6,092.52	189.12	78.92	-91.86	4,903.50	-4,856.81	6,526.16	6,367.83	158.33	41.220	
16,600.00	6,027.00	10,552.00	6,092.52	190.87	78.92	-91.86	4,903.50	-4,856.81	6,612.19	6,454.49	157.70	41.928	
16,700.00	6,027.00	10,552.00	6,092.52	192.62	78.92	-91.86	4,903.50	-4,856.81	6,698.61	6,541.52	157.09	42.641	
16,795.97	6,027.00	10,552.00	6,092.52	194.30	78.92	-91.86	4,903.50	-4,856.81	6,781.90	6,625.38	156.52	43.330	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - STK 2 - STK 2		Offset Site Error: 0.00 usft	
Survey Program:		124-MWD OWSG, 6330-MWD OWSG											Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
100.00	100.00	84.26	84.26	0.27	0.13	-83.17	661.49	-5,526.85	5,566.37	5,565.97	0.40	N/A				
200.00	200.00	190.73	190.72	0.63	0.43	-83.17	661.53	-5,526.16	5,565.72	5,564.66	1.06	5,258.139				
300.00	300.00	277.80	277.79	0.99	0.74	-83.17	661.47	-5,525.73	5,565.22	5,563.49	1.73	3,221.412				
400.00	400.00	381.86	381.86	1.34	1.11	-83.18	661.15	-5,525.38	5,564.85	5,562.39	2.46	2,265.358				
500.00	500.00	496.33	496.32	1.70	1.52	-83.18	660.65	-5,524.76	5,564.26	5,561.04	3.22	1,725.767				
600.00	600.00	604.07	604.06	2.06	1.91	-83.18	660.26	-5,523.95	5,563.47	5,559.50	3.97	1,401.973				
700.00	700.00	693.58	693.56	2.42	2.23	-83.18	660.25	-5,523.22	5,562.66	5,558.02	4.65	1,197.244				
800.00	800.00	785.59	785.57	2.78	2.56	-83.19	659.96	-5,522.78	5,562.15	5,556.82	5.33	1,042.899				
900.00	900.00	879.53	879.51	3.14	2.89	-83.19	659.70	-5,522.33	5,561.64	5,555.61	6.03	922.637				
1,000.00	999.98	988.09	988.07	3.49	3.28	6.07	659.61	-5,521.90	5,559.51	5,552.74	6.76	821.948				
1,100.00	1,099.84	1,085.87	1,085.85	3.83	3.62	6.10	660.07	-5,521.28	5,553.74	5,546.28	7.45	745.263				
1,200.00	1,199.45	1,156.22	1,156.20	4.19	3.86	6.13	660.33	-5,521.06	5,544.80	5,536.76	8.04	689.639				
1,300.00	1,298.70	1,234.35	1,234.33	4.55	4.12	6.16	660.31	-5,521.24	5,532.91	5,524.25	8.65	639.478				
1,400.00	1,397.47	1,315.99	1,315.97	4.94	4.39	6.21	660.37	-5,521.68	5,517.88	5,508.61	9.28	594.765				
1,500.00	1,495.62	1,418.51	1,418.48	5.34	4.74	6.27	660.39	-5,522.45	5,499.66	5,489.68	9.98	551.179				
1,600.00	1,593.06	1,523.76	1,523.73	5.78	5.10	6.35	660.72	-5,522.96	5,477.80	5,467.10	10.69	512.191				
1,700.00	1,689.64	1,652.67	1,652.64	6.24	5.54	6.46	661.40	-5,523.22	5,452.34	5,440.84	11.50	474.066				
1,800.00	1,785.27	1,748.18	1,748.14	6.75	5.88	6.55	660.71	-5,523.10	5,423.08	5,410.88	12.20	444.462				
1,900.00	1,880.44	1,845.84	1,845.80	7.30	6.22	6.60	661.30	-5,522.94	5,392.47	5,379.56	12.90	417.965				
2,000.00	1,975.60	2,847.69	2,838.05	7.86	9.95	6.21	584.22	-5,442.40	5,350.12	5,333.49	16.63	321.618				
2,100.00	2,070.77	2,920.00	2,909.02	8.43	10.25	6.16	576.29	-5,431.01	5,303.90	5,286.65	17.26	307.295				
2,200.00	2,165.93	2,988.70	2,976.45	9.02	10.54	6.11	568.44	-5,420.46	5,258.00	5,240.12	17.88	294.062				
2,300.00	2,261.10	3,057.13	3,043.62	9.62	10.83	6.05	560.04	-5,410.44	5,212.59	5,194.08	18.51	281.651				
2,400.00	2,356.26	3,189.92	3,173.94	10.23	11.40	5.93	543.66	-5,390.91	5,167.24	5,147.89	19.35	267.037				
2,500.00	2,451.43	3,391.13	3,371.40	10.84	12.27	5.84	526.72	-5,356.42	5,119.77	5,099.38	20.39	251.081				
2,600.00	2,546.59	3,495.58	3,473.90	11.46	12.72	5.84	521.44	-5,337.04	5,071.66	5,050.55	21.12	240.165				
2,700.00	2,641.76	3,585.44	3,562.09	12.09	13.10	5.87	519.18	-5,319.93	5,023.37	5,001.58	21.80	230.448				
2,800.00	2,736.92	3,664.02	3,639.21	12.72	13.44	5.89	516.75	-5,305.09	4,975.16	4,952.71	22.45	221.597				
2,900.00	2,832.09	3,735.87	3,709.72	13.35	13.76	5.89	512.82	-5,291.88	4,927.17	4,904.08	23.09	213.359				
3,000.00	2,927.25	3,800.00	3,772.63	13.99	14.05	5.87	507.70	-5,280.53	4,879.54	4,855.82	23.72	205.705				
3,100.00	3,022.42	3,846.12	3,817.85	14.63	14.26	5.83	502.99	-5,272.80	4,832.51	4,808.20	24.31	198.822				
3,200.00	3,117.58	3,888.00	3,858.90	15.27	14.45	5.79	497.93	-5,266.24	4,786.27	4,761.39	24.88	192.365				
3,300.00	3,212.75	3,932.49	3,902.50	15.91	14.65	5.74	491.88	-5,259.77	4,740.89	4,715.42	25.47	186.121				
3,400.00	3,307.91	3,977.00	3,946.12	16.56	14.86	5.68	485.28	-5,253.84	4,696.41	4,670.34	26.07	180.173				
3,500.00	3,403.08	4,037.67	4,005.55	17.20	15.13	5.58	475.69	-5,246.29	4,652.66	4,625.94	26.72	174.150				
3,600.00	3,498.24	4,096.21	4,062.87	17.85	15.40	5.48	466.06	-5,239.37	4,609.44	4,582.08	27.36	168.450				
3,700.00	3,593.41	4,154.00	4,119.49	18.50	15.66	5.38	456.33	-5,233.03	4,566.93	4,538.91	28.01	163.032				
3,800.00	3,688.57	4,223.19	4,187.27	19.15	15.97	5.26	444.48	-5,225.86	4,524.97	4,496.27	28.70	157.658				
3,900.00	3,783.74	4,541.51	4,499.13	19.81	17.45	4.76	397.07	-5,184.12	4,480.52	4,450.39	30.13	148.705				
4,000.00	3,878.90	4,611.65	4,567.84	20.46	17.78	4.68	388.28	-5,173.19	4,434.41	4,403.59	30.82	143.903				
4,100.00	3,974.07	4,682.00	4,636.77	21.11	18.11	4.58	379.04	-5,162.57	4,388.69	4,357.19	31.51	139.301				
4,200.00	4,069.23	4,759.61	4,712.85	21.77	18.48	4.47	368.78	-5,151.12	4,343.29	4,311.07	32.22	134.810				
4,300.00	4,164.40	4,805.45	4,757.79	22.42	18.70	4.40	362.61	-5,144.61	4,298.39	4,265.54	32.85	130.856				
4,400.00	4,259.56	4,859.00	4,810.29	23.08	18.95	4.31	354.53	-5,137.79	4,254.55	4,221.04	33.50	126.989				
4,500.00	4,354.73	4,948.15	4,897.67	23.74	19.37	4.15	340.57	-5,126.86	4,211.22	4,176.96	34.26	122.905				
4,600.00	4,449.89	5,244.00	5,187.61	24.39	20.78	3.72	303.30	-5,082.25	4,166.13	4,130.60	35.52	117.274				
4,700.00	4,545.06	5,368.94	5,310.02	25.05	21.37	3.65	294.35	-5,058.85	4,117.74	4,081.43	36.31	113.404				
4,800.00	4,640.22	5,454.82	5,394.14	25.71	21.77	3.62	289.62	-5,042.27	4,068.95	4,031.94	37.01	109.935				
4,900.00	4,735.39	5,510.89	5,449.09	26.37	22.03	3.59	286.18	-5,031.66	4,020.51	3,982.84	37.66	106.744				
5,000.00	4,830.55	5,767.20	5,696.42	27.03	23.02	4.12	308.83	-4,977.82	3,971.33	3,932.88	38.45	103.279				
5,100.00	4,925.72	5,830.00	5,752.83	27.69	23.19	4.55	332.06	-4,963.05	3,920.19	3,881.17	39.02	100.461				
5,200.00	5,020.88	6,091.00	5,952.28	28.35	23.60	7.41	484.94	-4,898.64	3,868.40	3,828.76	39.65	97.574				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - STK 2 - STK 2		Offset Site Error: 0.00 usft	
Survey Program:		124-MWD OWSG, 6330-MWD OWSG											Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,300.00	5,116.05	6,091.00	5,952.28	29.01	23.60	7.41	484.94	-4,898.64	3,815.83	3,775.59	40.24	94.819				
5,400.00	5,211.21	6,091.00	5,952.28	29.67	23.60	7.41	484.94	-4,898.64	3,765.18	3,724.34	40.84	92.196				
5,500.00	5,306.38	6,131.81	5,977.25	30.33	23.63	7.98	515.58	-4,888.52	3,715.38	3,673.88	41.50	89.530				
5,600.00	5,401.54	6,141.44	5,982.90	30.99	23.64	8.12	523.09	-4,886.42	3,668.17	3,626.06	42.11	87.114				
5,700.00	5,496.71	6,179.00	6,004.03	31.65	23.68	3.88	553.29	-4,879.29	3,623.51	3,580.74	42.77	84.719				
5,800.00	5,591.13	6,179.00	6,004.03	32.30	23.68	-28.09	553.29	-4,879.29	3,578.80	3,535.50	43.30	82.644				
5,900.00	5,682.22	6,179.00	6,004.03	32.92	23.68	-49.78	553.29	-4,879.29	3,535.30	3,491.55	43.75	80.809				
6,000.00	5,767.23	6,179.00	6,004.03	33.50	23.68	-63.88	553.29	-4,879.29	3,494.41	3,450.28	44.13	79.184				
6,100.00	5,843.56	6,179.00	6,004.03	34.04	23.68	-73.53	553.29	-4,879.29	3,457.49	3,412.99	44.50	77.704				
6,200.00	5,908.90	6,230.91	6,029.99	34.53	23.68	-80.25	597.60	-4,871.91	3,424.03	3,379.03	44.99	76.099				
6,300.00	5,961.25	6,268.00	6,045.72	34.99	23.70	-85.16	630.99	-4,868.29	3,397.08	3,351.56	45.52	74.628				
6,400.00	5,999.04	6,343.73	6,070.65	35.42	25.50	-88.59	702.13	-4,861.62	3,375.99	3,329.87	46.12	73.200				
6,500.00	6,021.11	6,532.00	6,104.66	35.83	25.74	-90.88	885.83	-4,842.21	3,358.66	3,311.72	46.95	71.543				
6,600.00	6,027.00	6,593.95	6,108.49	36.24	25.87	-92.14	947.27	-4,835.34	3,345.74	3,297.95	47.79	70.006				
6,700.00	6,027.00	6,680.37	6,113.71	36.68	26.11	-92.24	1,033.10	-4,826.71	3,335.91	3,287.03	48.88	68.245				
6,800.00	6,027.00	6,813.19	6,118.88	37.20	26.63	-92.34	1,165.10	-4,812.90	3,325.67	3,275.30	50.37	66.022				
6,900.00	6,027.00	6,973.00	6,122.41	37.80	27.56	-92.41	1,323.77	-4,794.37	3,314.27	3,261.94	52.34	63.325				
7,000.00	6,027.00	7,037.49	6,122.18	38.47	28.02	-92.41	1,387.76	-4,786.38	3,301.96	3,248.06	53.90	61.261				
7,100.00	6,027.00	7,087.89	6,122.05	39.21	28.42	-92.42	1,437.86	-4,780.90	3,291.10	3,235.60	55.49	59.305				
7,200.00	6,027.00	7,150.00	6,121.73	40.02	28.93	-92.41	1,499.72	-4,775.27	3,281.84	3,224.55	57.28	57.290				
7,300.00	6,027.00	7,202.70	6,121.36	40.89	29.40	-92.41	1,552.26	-4,771.18	3,273.81	3,214.68	59.13	55.367				
7,400.00	6,027.00	7,326.00	6,120.47	41.83	30.59	-92.40	1,675.15	-4,761.24	3,265.65	3,204.06	61.59	53.018				
7,500.00	6,027.00	7,380.01	6,120.17	42.83	31.15	-92.40	1,728.98	-4,756.80	3,257.72	3,194.08	63.63	51.195				
7,600.00	6,027.00	7,413.00	6,120.08	43.88	31.50	-92.40	1,761.91	-4,754.82	3,251.82	3,186.25	65.56	49.598				
7,700.00	6,027.00	7,483.67	6,119.95	44.99	32.27	-92.40	1,832.50	-4,751.63	3,247.32	3,179.45	67.87	47.844				
7,800.00	6,027.00	7,502.00	6,119.92	46.14	32.47	-92.40	1,850.82	-4,750.94	3,244.46	3,174.68	69.78	46.493				
7,900.00	6,027.00	7,560.76	6,119.80	47.33	33.13	-92.40	1,909.57	-4,749.87	3,243.05	3,170.96	72.09	44.985	CC			
7,933.52	6,027.00	7,590.00	6,119.76	47.74	33.47	-92.40	1,938.81	-4,750.09	3,243.26	3,170.30	72.96	44.455				
8,000.00	6,027.00	7,590.00	6,119.76	48.57	33.47	-92.40	1,938.81	-4,750.09	3,243.94	3,169.78	74.16	43.743				
8,100.00	6,027.00	7,642.98	6,119.65	49.84	34.08	-92.40	1,991.77	-4,751.45	3,246.59	3,170.11	76.48	42.451				
8,200.00	6,027.00	7,676.00	6,119.55	51.15	34.47	-92.39	2,024.76	-4,752.81	3,250.97	3,172.36	78.62	41.352				
8,300.00	6,027.00	7,763.00	6,119.32	52.48	35.51	-92.39	2,111.61	-4,757.80	3,256.67	3,175.35	81.32	40.047				
8,400.00	6,027.00	7,824.18	6,119.21	53.85	36.26	-92.38	2,172.65	-4,762.04	3,263.44	3,179.64	83.80	38.944				
8,500.00	6,027.00	7,903.18	6,119.07	55.24	37.26	-92.37	2,251.43	-4,767.94	3,270.87	3,184.38	86.49	37.817				
8,600.00	6,027.00	8,237.63	6,118.16	56.65	41.81	-92.35	2,585.46	-4,781.09	3,274.09	3,181.92	92.17	35.521				
8,700.00	6,027.00	8,290.00	6,117.93	58.08	42.56	-92.34	2,637.83	-4,781.89	3,275.51	3,180.81	94.70	34.589				
8,800.00	6,027.00	8,461.83	6,117.20	59.54	45.07	-92.33	2,809.63	-4,784.76	3,277.62	3,178.97	98.65	33.224				
8,804.45	6,027.00	8,431.41	6,117.34	59.60	44.62	-92.33	2,779.21	-4,784.42	3,277.43	3,179.04	98.38	33.313				
8,900.00	6,027.00	8,521.75	6,116.87	61.01	45.97	-92.32	2,869.54	-4,785.02	3,278.04	3,176.71	101.32	32.352				
9,000.00	6,027.00	8,602.12	6,116.60	62.50	47.18	-92.32	2,949.90	-4,786.38	3,279.64	3,175.39	104.25	31.459				
9,100.00	6,027.00	8,784.73	6,116.11	64.01	49.97	-92.31	3,132.51	-4,787.05	3,279.90	3,171.45	108.45	30.244				
9,200.00	6,027.00	8,961.67	6,115.48	65.53	52.74	-92.30	3,309.41	-4,783.60	3,277.93	3,165.36	112.57	29.118				
9,300.00	6,027.00	9,078.94	6,114.89	67.06	54.59	-92.29	3,426.60	-4,779.52	3,274.40	3,158.39	116.01	28.225				
9,400.00	6,027.00	9,169.00	6,114.24	68.61	56.03	-92.28	3,516.60	-4,776.23	3,270.72	3,151.57	119.15	27.449				
9,500.00	6,027.00	9,222.15	6,113.81	70.17	56.88	-92.28	3,569.72	-4,774.76	3,267.96	3,146.09	121.88	26.814				
9,599.30	6,027.00	9,257.00	6,113.53	71.72	57.44	-92.27	3,604.57	-4,774.29	3,266.83	3,142.49	124.34	26.273				
9,600.00	6,027.00	9,257.00	6,113.53	71.73	57.44	-92.27	3,604.57	-4,774.29	3,266.83	3,142.48	124.35	26.270				
9,700.00	6,027.00	9,311.00	6,113.12	73.31	58.30	-92.27	3,658.57	-4,774.47	3,267.32	3,140.26	127.06	25.715				
9,800.00	6,027.00	9,346.00	6,112.89	74.90	58.87	-92.26	3,693.56	-4,775.25	3,269.66	3,140.17	129.49	25.250				
9,900.00	6,027.00	9,433.00	6,112.39	76.50	60.27	-92.25	3,780.50	-4,778.30	3,273.14	3,140.51	132.63	24.678				
10,000.00	6,027.00	9,591.70	6,111.82	78.10	62.85	-92.24	3,939.11	-4,783.74	3,276.81	3,140.02	136.79	23.955				
10,100.00	6,027.00	9,695.00	6,111.30	79.71	64.54	-92.23	4,042.39	-4,785.42	3,278.38	3,138.19	140.19	23.386				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - STK 2 - STK 2													Offset Site Error:	0.00 usft
Survey Program: 124-MWD OWSG, 6330-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	6,027.00	9,763.45	6,110.83	81.33	65.67	-92.22	4,110.82	-4,786.92	3,280.60	3,137.50	143.11	22.924		
10,300.00	6,027.00	9,844.08	6,110.33	82.96	67.00	-92.21	4,191.40	-4,789.63	3,283.89	3,137.69	146.20	22.461		
10,400.00	6,027.00	9,917.59	6,109.80	84.59	68.21	-92.19	4,264.86	-4,792.43	3,287.68	3,138.49	149.19	22.036		
10,500.00	6,027.00	9,986.58	6,109.23	86.23	69.35	-92.18	4,333.77	-4,795.77	3,292.45	3,140.33	152.11	21.645		
10,600.00	6,027.00	10,072.12	6,108.69	87.87	70.78	-92.17	4,419.17	-4,800.61	3,298.03	3,142.74	155.29	21.238		
10,700.00	6,027.00	10,490.00	6,106.39	89.52	77.76	-92.13	4,836.18	-4,801.41	3,296.00	3,133.04	162.96	20.225		
10,800.00	6,027.00	10,490.00	6,106.39	91.17	77.76	-92.13	4,836.18	-4,801.41	3,293.54	3,128.39	165.15	19.943		
10,863.96	6,027.00	10,520.11	6,106.22	92.23	78.27	-92.13	4,866.29	-4,801.14	3,293.12	3,126.23	166.89	19.732		
10,900.00	6,027.00	10,531.22	6,106.14	92.83	78.46	-92.13	4,877.39	-4,801.19	3,293.29	3,125.50	167.79	19.628		
11,000.00	6,027.00	10,577.00	6,105.76	94.49	79.23	-92.12	4,923.16	-4,802.32	3,295.29	3,124.85	170.44	19.334		
11,100.00	6,027.00	10,710.14	6,104.87	96.16	81.49	-92.10	5,056.25	-4,805.83	3,298.08	3,123.73	174.34	18.917		
11,200.00	6,027.00	10,871.86	6,104.08	97.83	84.23	-92.09	5,217.96	-4,806.42	3,298.27	3,119.66	178.61	18.466		
11,268.83	6,027.00	10,928.00	6,103.72	98.98	85.19	-92.08	5,274.10	-4,806.34	3,298.13	3,117.33	180.80	18.241		
11,300.00	6,027.00	10,928.00	6,103.72	99.50	85.19	-92.08	5,274.10	-4,806.34	3,298.28	3,116.83	181.45	18.177		
11,400.00	6,027.00	10,979.67	6,103.44	101.18	86.07	-92.08	5,325.77	-4,806.98	3,299.71	3,115.51	184.20	17.914		
11,500.00	6,027.00	11,016.00	6,103.30	102.86	86.68	-92.07	5,362.07	-4,808.18	3,303.04	3,116.36	186.68	17.694		
11,600.00	6,027.00	11,065.14	6,103.11	104.54	87.52	-92.07	5,411.15	-4,810.65	3,308.09	3,118.78	189.31	17.474		
11,700.00	6,027.00	11,103.00	6,102.91	106.23	88.17	-92.06	5,448.93	-4,813.14	3,314.79	3,123.09	191.71	17.291		
11,800.00	6,027.00	11,145.67	6,102.64	107.92	88.90	-92.06	5,491.45	-4,816.72	3,323.27	3,129.15	194.13	17.119		
11,900.00	6,027.00	11,191.00	6,102.34	109.61	89.67	-92.05	5,536.52	-4,821.55	3,333.69	3,137.15	196.55	16.961		
12,000.00	6,027.00	11,803.00	6,099.72	111.31	100.15	-91.99	6,146.17	-4,840.17	3,334.60	3,126.79	207.81	16.046		
12,100.00	6,027.00	11,852.21	6,099.44	113.00	101.00	-91.99	6,195.33	-4,838.09	3,330.74	3,120.05	210.69	15.808		
12,200.00	6,027.00	11,892.00	6,099.16	114.71	101.68	-91.98	6,235.12	-4,837.54	3,329.08	3,115.67	213.41	15.599		
12,229.85	6,027.00	11,892.00	6,099.16	115.21	101.68	-91.98	6,235.12	-4,837.54	3,328.95	3,114.89	214.05	15.552		
12,300.00	6,027.00	11,921.43	6,098.96	116.41	102.19	-91.98	6,264.54	-4,837.70	3,329.35	3,113.42	215.93	15.419		
12,400.00	6,027.00	11,980.00	6,098.62	118.11	103.20	-91.97	6,323.09	-4,839.26	3,331.65	3,112.85	218.80	15.227		
12,500.00	6,027.00	12,006.52	6,098.49	119.82	103.66	-91.97	6,349.59	-4,840.42	3,335.42	3,114.29	221.13	15.084		
12,600.00	6,027.00	12,067.00	6,098.22	121.53	104.71	-91.96	6,409.97	-4,843.72	3,340.78	3,116.83	223.95	14.918		
12,700.00	6,027.00	12,596.00	6,096.49	123.24	113.84	-91.94	6,938.16	-4,835.53	3,334.85	3,101.87	232.98	14.314		
12,800.00	6,027.00	12,683.00	6,096.31	124.95	115.33	-91.94	7,024.96	-4,829.63	3,328.04	3,091.73	236.31	14.083		
12,900.00	6,027.00	12,730.89	6,096.20	126.66	116.16	-91.94	7,072.77	-4,827.04	3,322.40	3,083.12	239.28	13.885		
13,000.00	6,027.00	12,772.00	6,096.12	128.38	116.87	-91.94	7,113.84	-4,825.12	3,318.02	3,075.89	242.13	13.704		
13,100.00	6,027.00	12,834.12	6,095.99	130.10	117.94	-91.94	7,175.93	-4,823.12	3,314.98	3,069.82	245.17	13.521		
13,200.00	6,027.00	12,882.49	6,095.85	131.82	118.78	-91.93	7,224.30	-4,822.50	3,313.65	3,065.65	248.00	13.362		
13,239.29	6,027.00	12,902.75	6,095.78	132.49	119.13	-91.93	7,244.56	-4,822.45	3,313.54	3,064.42	249.12	13.301		
13,300.00	6,027.00	12,947.00	6,095.64	133.54	119.90	-91.93	7,288.80	-4,822.74	3,313.86	3,062.85	251.01	13.202		
13,400.00	6,027.00	13,008.38	6,095.51	135.26	120.97	-91.93	7,350.18	-4,823.65	3,315.17	3,061.22	253.95	13.055		
13,500.00	6,027.00	13,095.94	6,095.45	136.98	122.50	-91.93	7,437.72	-4,825.32	3,317.05	3,059.79	257.26	12.894		
13,600.00	6,027.00	13,240.76	6,095.34	138.71	125.02	-91.92	7,582.52	-4,827.29	3,318.38	3,056.97	261.41	12.694		
13,700.00	6,027.00	13,322.30	6,095.35	140.43	126.44	-91.92	7,664.06	-4,827.98	3,319.22	3,054.58	264.64	12.542		
13,800.00	6,027.00	13,385.00	6,095.25	142.16	127.54	-91.92	7,726.75	-4,829.13	3,321.03	3,053.45	267.58	12.411		
13,900.00	6,027.00	13,544.38	6,094.83	143.89	130.32	-91.91	7,886.11	-4,831.25	3,322.22	3,050.27	271.96	12.216		
14,000.00	6,027.00	13,649.00	6,094.81	145.62	132.15	-91.91	7,990.73	-4,831.64	3,322.57	3,047.05	275.52	12.059		
14,100.00	6,027.00	13,733.20	6,095.10	147.35	133.62	-91.92	8,074.93	-4,832.40	3,323.43	3,044.63	278.80	11.921		
14,200.00	6,027.00	13,778.93	6,095.29	149.08	134.42	-91.92	8,120.65	-4,833.17	3,325.13	3,043.64	281.49	11.813		
14,300.00	6,027.00	13,826.00	6,095.41	150.81	135.24	-91.92	8,167.69	-4,834.80	3,328.52	3,044.39	284.13	11.715		
14,400.00	6,027.00	13,914.00	6,095.34	152.54	136.79	-91.92	8,255.60	-4,838.66	3,332.88	3,045.44	287.44	11.595		
14,500.00	6,027.00	14,251.16	6,094.47	154.28	142.69	-91.90	8,592.56	-4,844.92	3,336.82	3,042.46	294.36	11.336		
14,600.00	6,027.00	14,324.28	6,094.49	156.01	143.96	-91.90	8,665.65	-4,842.80	3,334.08	3,036.54	297.54	11.205		
14,692.11	6,027.00	14,356.00	6,094.39	157.61	144.52	-91.90	8,697.37	-4,842.44	3,333.17	3,033.17	300.00	11.111		
14,700.00	6,027.00	14,356.00	6,094.39	157.75	144.52	-91.90	8,697.37	-4,842.44	3,333.18	3,033.01	300.17	11.104		
14,800.00	6,027.00	14,356.00	6,094.39	159.49	144.52	-91.90	8,697.37	-4,842.44	3,334.92	3,032.75	302.17	11.037 ES		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 8-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - STK 2 - STK 2												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 124-MWD OWSG, 6330-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,900.00	6,027.00	14,444.00	6,094.27	161.22	146.06	-91.89	8,785.29	-4,845.42	3,338.28	3,032.80	305.48	10.928	
15,000.00	6,027.00	14,444.00	6,094.27	162.96	146.06	-91.89	8,785.29	-4,845.42	3,343.37	3,036.18	307.18	10.884	
15,100.00	6,027.00	14,444.00	6,094.27	164.70	146.06	-91.89	8,785.29	-4,845.42	3,351.43	3,042.82	308.61	10.860	
15,200.00	6,027.00	14,799.00	6,094.70	166.44	152.30	-91.89	9,138.95	-4,871.01	3,362.29	3,045.34	316.95	10.608	
15,300.00	6,027.00	14,886.00	6,094.89	168.18	153.83	-91.89	9,225.92	-4,873.00	3,364.55	3,044.28	320.26	10.506	
15,400.00	6,027.00	14,933.27	6,095.05	169.93	154.66	-91.89	9,273.16	-4,874.89	3,368.09	3,045.18	322.92	10.430	
15,500.00	6,027.00	15,031.82	6,095.25	171.67	156.40	-91.89	9,371.63	-4,878.72	3,371.97	3,045.55	326.42	10.330	
15,600.00	6,027.00	15,132.20	6,095.30	173.41	158.17	-91.89	9,471.93	-4,882.76	3,375.97	3,046.02	329.95	10.232	
15,700.00	6,027.00	15,281.75	6,095.14	175.15	160.80	-91.89	9,621.40	-4,887.72	3,379.30	3,045.00	334.29	10.109	
15,800.00	6,027.00	15,472.12	6,094.71	176.90	164.15	-91.88	9,811.75	-4,889.67	3,380.15	3,041.02	339.13	9.967	
15,855.86	6,027.00	15,519.68	6,094.51	177.87	164.99	-91.87	9,859.31	-4,889.58	3,380.04	3,039.06	340.98	9.913	
15,900.00	6,027.00	15,545.08	6,094.40	178.64	165.43	-91.87	9,884.71	-4,889.67	3,380.19	3,037.91	342.28	9.876	
16,000.00	6,027.00	15,589.00	6,094.23	180.39	166.21	-91.87	9,928.62	-4,890.16	3,381.47	3,036.50	344.97	9.802	
16,100.00	6,027.00	15,678.00	6,093.94	182.13	167.77	-91.86	10,017.60	-4,892.26	3,383.81	3,035.49	348.32	9.715	
16,200.00	6,027.00	15,728.70	6,093.75	183.88	168.67	-91.86	10,068.26	-4,894.09	3,387.25	3,036.24	351.01	9.650	
16,300.00	6,027.00	15,797.79	6,093.37	185.63	169.89	-91.85	10,137.28	-4,897.30	3,391.82	3,037.83	353.99	9.582	
16,400.00	6,027.00	15,887.40	6,093.16	187.38	171.47	-91.84	10,226.76	-4,901.98	3,397.00	3,039.67	357.33	9.507	
16,500.00	6,027.00	16,019.41	6,092.70	189.12	173.81	-91.83	10,358.61	-4,908.53	3,401.98	3,040.53	361.45	9.412	
16,600.00	6,027.00	16,141.44	6,092.27	190.87	175.96	-91.82	10,480.55	-4,913.37	3,405.90	3,040.53	365.38	9.322	
16,700.00	6,027.00	16,154.00	6,092.23	192.62	176.19	-91.82	10,493.10	-4,913.84	3,410.68	3,043.41	367.28	9.286	
16,795.97	6,027.00	16,154.00	6,092.23	194.30	176.19	-91.82	10,493.10	-4,913.84	3,417.99	3,049.39	368.60	9.273 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - EXIST HZ PRONGHORN P-T-8HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 517-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	0.00	0.00	0.27	0.00	-29.13	5,271.78	-2,937.45	6,035.36	6,035.09	0.27	N/A		
200.00	200.00	124.84	124.84	0.63	0.22	-29.13	5,271.98	-2,938.11	6,035.61	6,034.76	0.85	7,110.850		
300.00	300.00	196.99	196.98	0.99	0.35	-29.14	5,272.29	-2,939.08	6,036.64	6,035.30	1.34	4,521.816		
400.00	400.00	269.13	269.10	1.34	0.48	-29.15	5,272.74	-2,940.48	6,038.13	6,036.31	1.82	3,315.765		
500.00	500.00	341.24	341.19	1.70	0.61	-29.16	5,273.32	-2,942.32	6,040.08	6,037.77	2.31	2,618.262		
600.00	600.00	413.32	413.23	2.06	0.74	-29.18	5,274.04	-2,944.60	6,042.49	6,039.70	2.79	2,163.735		
700.00	700.00	562.85	562.65	2.42	1.09	-29.21	5,275.44	-2,950.15	6,045.31	6,041.81	3.50	1,727.187		
800.00	800.00	804.17	803.91	2.78	1.92	-29.25	5,274.61	-2,953.98	6,045.53	6,040.84	4.70	1,287.251		
900.00	900.00	10,626.00	6,106.88	3.14	83.06	-72.78	876.51	-2,827.89	6,013.21	5,959.43	53.79	111.799		
1,000.00	999.98	10,626.00	6,106.88	3.49	83.06	17.54	876.51	-2,827.89	5,925.56	5,871.29	54.27	109.193		
1,100.00	1,099.84	10,626.00	6,106.88	3.83	83.06	18.75	876.51	-2,827.89	5,836.71	5,781.96	54.75	106.609		
1,200.00	1,199.45	10,626.00	6,106.88	4.19	83.06	20.12	876.51	-2,827.89	5,746.73	5,691.51	55.22	104.074		
1,300.00	1,298.70	10,626.00	6,106.88	4.55	83.06	21.69	876.51	-2,827.89	5,655.67	5,600.00	55.67	101.591		
1,400.00	1,397.47	10,626.00	6,106.88	4.94	83.06	23.51	876.51	-2,827.89	5,563.60	5,507.49	56.11	99.161		
1,500.00	1,495.62	10,626.00	6,106.88	5.34	83.06	25.62	876.51	-2,827.89	5,470.57	5,414.04	56.52	96.785		
1,600.00	1,593.06	10,626.00	6,106.88	5.78	83.06	28.09	876.51	-2,827.89	5,376.65	5,319.73	56.92	94.462		
1,700.00	1,689.64	10,626.00	6,106.88	6.24	83.06	31.00	876.51	-2,827.89	5,281.92	5,224.62	57.29	92.194		
1,800.00	1,785.27	10,626.00	6,106.88	6.75	83.06	34.27	876.51	-2,827.89	5,186.44	5,128.80	57.65	89.972		
1,900.00	1,880.44	10,626.00	6,106.88	7.30	83.06	34.27	876.51	-2,827.89	5,090.75	5,032.76	57.98	87.801		
2,000.00	1,975.60	10,626.00	6,106.88	7.86	83.06	34.27	876.51	-2,827.89	4,995.22	4,936.89	58.33	85.635		
2,100.00	2,070.77	10,626.00	6,106.88	8.43	83.06	34.27	876.51	-2,827.89	4,899.87	4,841.17	58.70	83.475		
2,200.00	2,165.93	10,626.00	6,106.88	9.02	83.06	34.27	876.51	-2,827.89	4,804.71	4,745.63	59.08	81.323		
2,300.00	2,261.10	10,626.00	6,106.88	9.62	83.06	34.27	876.51	-2,827.89	4,709.75	4,650.27	59.48	79.179		
2,400.00	2,356.26	10,626.00	6,106.88	10.23	83.06	34.27	876.51	-2,827.89	4,615.01	4,555.11	59.90	77.044		
2,500.00	2,451.43	10,626.00	6,106.88	10.84	83.06	34.27	876.51	-2,827.89	4,520.49	4,460.15	60.34	74.921		
2,600.00	2,546.59	10,626.00	6,106.88	11.46	83.06	34.27	876.51	-2,827.89	4,426.21	4,365.42	60.79	72.808		
2,700.00	2,641.76	10,626.00	6,106.88	12.09	83.06	34.27	876.51	-2,827.89	4,332.19	4,270.92	61.27	70.709		
2,800.00	2,736.92	10,626.00	6,106.88	12.72	83.06	34.27	876.51	-2,827.89	4,238.44	4,176.68	61.76	68.622		
2,900.00	2,832.09	10,626.00	6,106.88	13.35	83.06	34.27	876.51	-2,827.89	4,144.99	4,082.70	62.28	66.551		
3,000.00	2,927.25	10,626.00	6,106.88	13.99	83.06	34.27	876.51	-2,827.89	4,051.84	3,989.02	62.82	64.495		
3,100.00	3,022.42	10,626.00	6,106.88	14.63	83.06	34.27	876.51	-2,827.89	3,959.04	3,895.65	63.39	62.456		
3,200.00	3,117.58	10,626.00	6,106.88	15.27	83.06	34.27	876.51	-2,827.89	3,866.59	3,802.61	63.98	60.435		
3,300.00	3,212.75	10,626.00	6,106.88	15.91	83.06	34.27	876.51	-2,827.89	3,774.52	3,709.92	64.60	58.433		
3,400.00	3,307.91	10,626.00	6,106.88	16.56	83.06	34.27	876.51	-2,827.89	3,682.87	3,617.63	65.24	56.451		
3,500.00	3,403.08	10,626.00	6,106.88	17.20	83.06	34.27	876.51	-2,827.89	3,591.66	3,525.75	65.91	54.491		
3,600.00	3,498.24	10,626.00	6,106.88	17.85	83.06	34.27	876.51	-2,827.89	3,500.94	3,434.32	66.62	52.553		
3,700.00	3,593.41	10,626.00	6,106.88	18.50	83.06	34.27	876.51	-2,827.89	3,410.73	3,343.38	67.35	50.638		
3,800.00	3,688.57	10,626.00	6,106.88	19.15	83.06	34.27	876.51	-2,827.89	3,321.09	3,252.96	68.13	48.749		
3,900.00	3,783.74	10,626.00	6,106.88	19.81	83.06	34.27	876.51	-2,827.89	3,232.05	3,163.12	68.93	46.887		
4,000.00	3,878.90	10,626.00	6,106.88	20.46	83.06	34.27	876.51	-2,827.89	3,143.67	3,073.89	69.78	45.053		
4,100.00	3,974.07	10,626.00	6,106.88	21.11	83.06	34.27	876.51	-2,827.89	3,056.01	2,985.35	70.66	43.248		
4,200.00	4,069.23	10,626.00	6,106.88	21.77	83.06	34.27	876.51	-2,827.89	2,969.13	2,897.54	71.59	41.475		
4,300.00	4,164.40	10,626.00	6,106.88	22.42	83.06	34.27	876.51	-2,827.89	2,883.09	2,810.54	72.56	39.735		
4,400.00	4,259.56	10,626.00	6,106.88	23.08	83.06	34.27	876.51	-2,827.89	2,797.99	2,724.42	73.57	38.031		
4,500.00	4,354.73	10,626.00	6,106.88	23.74	83.06	34.27	876.51	-2,827.89	2,713.90	2,639.27	74.63	36.363		
4,600.00	4,449.89	10,626.00	6,106.88	24.39	83.06	34.27	876.51	-2,827.89	2,630.93	2,555.19	75.74	34.736		
4,700.00	4,545.06	10,626.00	6,106.88	25.05	83.06	34.27	876.51	-2,827.89	2,549.18	2,472.28	76.90	33.150		
4,800.00	4,640.22	10,626.00	6,106.88	25.71	83.06	34.27	876.51	-2,827.89	2,468.77	2,390.67	78.11	31.608		
4,900.00	4,735.39	10,626.00	6,106.88	26.37	83.06	34.27	876.51	-2,827.89	2,389.85	2,310.48	79.36	30.113		
5,000.00	4,830.55	10,626.00	6,106.88	27.03	83.06	34.27	876.51	-2,827.89	2,312.55	2,231.88	80.67	28.668		
5,100.00	4,925.72	10,626.00	6,106.88	27.69	83.06	34.27	876.51	-2,827.89	2,237.05	2,155.04	82.02	27.276		
5,200.00	5,020.88	10,626.00	6,106.88	28.35	83.06	34.27	876.51	-2,827.89	2,163.55	2,080.14	83.41	25.940		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - EXIST HZ PRONGHORN P-T-8HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 517-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	10,626.00	6,106.88	29.01	83.06	34.27	876.51	-2,827.89	2,092.24	2,007.40	84.83	24.663		
5,400.00	5,211.21	10,626.00	6,106.88	29.67	83.06	34.27	876.51	-2,827.89	2,023.36	1,937.07	86.29	23.449		
5,500.00	5,306.38	10,626.00	6,106.88	30.33	83.06	34.27	876.51	-2,827.89	1,957.17	1,869.41	87.76	22.302		
5,600.00	5,401.54	10,626.00	6,106.88	30.99	83.06	34.27	876.51	-2,827.89	1,893.94	1,804.72	89.23	21.226		
5,700.00	5,496.71	10,626.00	6,106.88	31.65	83.06	29.32	876.51	-2,827.89	1,833.92	1,743.25	90.68	20.224		
5,800.00	5,591.13	10,626.00	6,106.88	32.30	83.06	-4.33	876.51	-2,827.89	1,772.71	1,680.58	92.13	19.242		
5,900.00	5,682.22	10,626.00	6,106.88	32.92	83.06	-28.82	876.51	-2,827.89	1,708.65	1,615.07	93.57	18.260		
6,000.00	5,767.23	10,626.00	6,106.88	33.50	83.06	-46.70	876.51	-2,827.89	1,643.47	1,548.46	95.01	17.297		
6,100.00	5,843.56	10,626.00	6,106.88	34.04	83.06	-60.74	876.51	-2,827.89	1,579.14	1,482.68	96.46	16.371		
6,200.00	5,908.90	10,626.00	6,106.88	34.53	83.06	-72.04	876.51	-2,827.89	1,517.85	1,419.91	97.94	15.497		
6,300.00	5,961.25	10,626.00	6,106.88	34.99	83.06	-80.96	876.51	-2,827.89	1,461.95	1,362.45	99.50	14.693		
6,400.00	5,999.04	10,626.00	6,106.88	35.42	83.06	-87.66	876.51	-2,827.89	1,413.88	1,312.71	101.17	13.975		
6,500.00	6,021.11	10,626.00	6,106.88	35.83	83.06	-92.27	876.51	-2,827.89	1,375.97	1,273.00	102.98	13.362		
6,600.00	6,027.00	10,626.00	6,106.88	36.24	83.06	-94.63	876.51	-2,827.89	1,350.21	1,245.33	104.87	12.875		
6,700.00	6,027.00	10,626.00	6,106.88	36.68	83.06	-94.63	876.51	-2,827.89	1,333.75	1,226.86	106.89	12.478		
6,800.00	6,027.00	10,626.00	6,106.88	37.20	83.06	-94.63	876.51	-2,827.89	1,324.66	1,215.68	108.98	12.155		
6,870.78	6,027.00	10,626.00	6,106.88	37.62	83.06	-94.63	876.51	-2,827.89	1,322.77	1,212.32	110.44	11.977		
6,900.00	6,027.00	10,597.70	6,107.22	37.80	82.57	-94.65	904.82	-2,827.88	1,322.78	1,212.54	110.24	11.999		
7,000.00	6,027.00	10,471.89	6,108.58	38.47	80.42	-94.71	1,030.60	-2,826.52	1,321.74	1,212.94	108.80	12.148		
7,100.00	6,027.00	10,384.55	6,107.68	39.21	78.93	-94.68	1,117.94	-2,825.90	1,320.85	1,212.29	108.56	12.167		
7,200.00	6,027.00	10,258.84	6,105.38	40.02	76.79	-94.58	1,243.60	-2,823.76	1,319.00	1,211.75	107.25	12.299		
7,300.00	6,027.00	10,167.00	6,102.70	40.89	75.23	-94.48	1,335.36	-2,821.17	1,315.98	1,208.95	107.03	12.296		
7,346.39	6,027.00	10,150.28	6,102.65	41.32	74.95	-94.48	1,352.08	-2,821.04	1,315.50	1,207.76	107.74	12.210		
7,400.00	6,027.00	10,121.24	6,103.25	41.83	74.45	-94.50	1,381.11	-2,821.35	1,316.09	1,207.85	108.24	12.159		
7,500.00	6,027.00	10,057.77	6,105.70	42.83	73.37	-94.60	1,444.50	-2,823.19	1,319.29	1,210.40	108.89	12.116		
7,600.00	6,027.00	9,992.45	6,108.75	43.88	72.25	-94.72	1,509.65	-2,826.77	1,325.15	1,215.68	109.47	12.105		
7,700.00	6,027.00	9,896.69	6,111.69	44.99	70.60	-94.82	1,605.08	-2,834.29	1,333.20	1,223.95	109.25	12.203		
7,800.00	6,027.00	9,772.04	6,114.06	46.14	68.47	-94.89	1,729.43	-2,842.49	1,339.91	1,231.63	108.28	12.375		
7,900.00	6,027.00	9,648.30	6,115.99	47.33	66.37	-94.95	1,853.02	-2,848.11	1,344.50	1,237.16	107.34	12.525		
8,000.00	6,027.00	9,548.63	6,117.09	48.57	64.68	-94.98	1,952.61	-2,852.12	1,348.59	1,241.45	107.13	12.588		
8,100.00	6,027.00	9,436.36	6,114.91	49.84	62.79	-94.88	2,064.78	-2,855.56	1,351.78	1,245.17	106.61	12.680		
8,200.00	6,027.00	9,316.93	6,112.75	51.15	60.79	-94.78	2,184.15	-2,858.52	1,353.67	1,247.78	105.89	12.784		
8,300.00	6,027.00	9,198.39	6,115.47	52.48	58.81	-94.89	2,302.65	-2,859.34	1,354.52	1,249.36	105.16	12.880		
8,400.00	6,027.00	9,066.88	6,115.76	53.85	56.65	-94.91	2,434.15	-2,858.36	1,353.84	1,249.80	104.05	13.012		
8,500.00	6,027.00	8,941.66	6,114.54	55.24	54.60	-94.87	2,559.31	-2,854.79	1,350.92	1,247.78	103.14	13.098		
8,600.00	6,027.00	8,829.05	6,112.45	56.65	52.78	-94.80	2,671.79	-2,849.95	1,346.46	1,243.79	102.67	13.114		
8,700.00	6,027.00	8,738.16	6,109.44	58.08	51.32	-94.68	2,762.54	-2,845.99	1,341.82	1,238.84	102.98	13.030		
8,800.00	6,027.00	8,650.93	6,108.64	59.54	49.92	-94.66	2,849.69	-2,842.33	1,337.61	1,234.20	103.41	12.935		
8,900.00	6,027.00	8,591.66	6,110.58	61.01	48.97	-94.75	2,908.91	-2,841.10	1,335.81	1,231.07	104.74	12.754		
8,907.96	6,027.00	8,586.92	6,110.75	61.13	48.90	-94.76	2,913.65	-2,841.08	1,335.80	1,230.96	104.84	12.741		
9,000.00	6,027.00	8,506.76	6,111.84	62.50	47.62	-94.80	2,993.80	-2,841.48	1,336.33	1,231.10	105.23	12.699		
9,100.00	6,027.00	8,412.45	6,109.71	64.01	46.11	-94.71	3,088.07	-2,842.71	1,337.42	1,231.96	105.47	12.681		
9,200.00	6,027.00	8,308.45	6,109.94	65.53	44.47	-94.71	3,192.04	-2,844.64	1,339.29	1,233.89	105.40	12.706		
9,300.00	6,027.00	8,230.00	6,111.49	67.06	43.25	-94.77	3,270.46	-2,845.78	1,340.93	1,234.80	106.13	12.635		
9,400.00	6,027.00	8,166.00	6,113.47	68.61	42.25	-94.85	3,334.38	-2,848.25	1,344.98	1,237.72	107.26	12.539		
9,500.00	6,027.00	8,028.43	6,113.70	70.17	40.13	-94.83	3,471.79	-2,854.44	1,349.67	1,243.38	106.30	12.697		
9,600.00	6,027.00	7,870.89	6,115.15	71.73	37.79	-94.90	3,629.28	-2,852.95	1,348.06	1,243.37	104.69	12.877		
9,700.00	6,027.00	7,713.10	6,117.06	73.31	35.52	-95.01	3,786.87	-2,845.70	1,343.21	1,240.22	102.99	13.042		
9,800.00	6,027.00	7,615.41	6,115.25	74.90	34.15	-94.95	3,884.39	-2,840.46	1,337.68	1,234.33	103.35	12.944		
9,900.00	6,027.00	7,481.84	6,117.39	76.50	32.36	-95.09	4,017.44	-2,829.08	1,328.89	1,226.41	102.48	12.967		
10,000.00	6,027.00	7,398.38	6,120.98	78.10	31.27	-95.27	4,100.57	-2,822.67	1,321.51	1,218.14	103.37	12.784		
10,100.00	6,027.00	7,307.61	6,122.48	79.71	30.13	-95.36	4,191.09	-2,816.30	1,314.66	1,210.59	104.07	12.633		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - EXIST HZ PRONGHORN P-T-8HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 517-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	6,027.00	7,216.00	6,123.64	81.33	29.01	-95.43	4,282.48	-2,810.05	1,308.01	1,203.22	104.78	12.483		
10,300.00	6,027.00	7,132.19	6,126.27	82.96	28.02	-95.57	4,366.15	-2,805.91	1,303.27	1,197.49	105.78	12.321		
10,400.00	6,027.00	7,043.62	6,127.61	84.59	27.03	-95.64	4,454.59	-2,801.59	1,298.60	1,191.92	106.68	12.173		
10,500.00	6,027.00	6,955.44	6,125.95	86.23	26.08	-95.58	4,542.72	-2,799.20	1,295.65	1,187.97	107.68	12.033		
10,600.00	6,027.00	6,886.17	6,124.76	87.87	25.37	-95.53	4,611.98	-2,798.06	1,293.86	1,184.62	109.25	11.843		
10,614.00	6,027.00	6,878.11	6,124.77	88.10	25.29	-95.53	4,620.04	-2,798.03	1,293.83	1,184.32	109.51	11.815	CC	
10,700.00	6,027.00	6,835.00	6,125.57	89.52	24.87	-95.57	4,663.13	-2,798.56	1,295.12	1,183.88	111.24	11.642	ES	
10,800.00	6,027.00	6,772.00	6,127.79	91.17	24.28	-95.65	4,726.04	-2,801.03	1,299.53	1,186.67	112.85	11.515		
10,900.00	6,027.00	6,704.33	6,129.62	92.83	23.68	-95.71	4,793.49	-2,806.13	1,307.15	1,192.81	114.34	11.432		
11,000.00	6,027.00	6,589.54	6,129.74	94.49	22.79	-95.68	4,907.93	-2,815.06	1,314.84	1,199.85	114.99	11.434		
11,100.00	6,027.00	6,512.53	6,125.41	96.16	22.26	-95.46	4,984.49	-2,821.91	1,323.14	1,206.67	116.47	11.360		
11,200.00	6,027.00	6,387.20	6,101.68	97.83	21.52	-94.39	5,106.69	-2,835.22	1,332.46	1,215.02	117.44	11.346		
11,300.00	6,027.00	6,212.22	6,042.76	99.50	20.80	-91.83	5,271.03	-2,845.73	1,336.49	1,218.43	118.06	11.321		
11,400.00	6,027.00	6,122.90	6,000.52	101.18	20.55	-90.02	5,349.53	-2,848.77	1,339.56	1,219.52	120.04	11.159		
11,500.00	6,027.00	6,049.70	5,956.70	102.86	20.40	-88.15	5,408.02	-2,851.41	1,345.25	1,223.05	122.20	11.009		
11,600.00	6,027.00	5,971.98	5,902.02	104.54	20.25	-85.83	5,463.16	-2,853.35	1,354.03	1,229.85	124.18	10.904		
11,700.00	6,027.00	5,927.83	5,868.46	106.23	20.18	-84.41	5,491.82	-2,854.19	1,367.02	1,240.87	126.15	10.836	SF	
11,800.00	6,027.00	5,888.00	5,836.67	107.92	20.12	-83.07	5,515.78	-2,855.18	1,385.31	1,257.53	127.78	10.842		
11,900.00	6,027.00	5,851.67	5,806.18	109.61	20.05	-81.80	5,535.52	-2,855.96	1,408.92	1,279.90	129.02	10.920		
12,000.00	6,027.00	5,815.41	5,774.42	111.31	19.99	-80.49	5,552.99	-2,856.32	1,437.78	1,307.95	129.83	11.074		
12,100.00	6,027.00	5,794.00	5,755.20	113.00	19.95	-79.69	5,562.41	-2,856.34	1,471.91	1,341.59	130.32	11.294		
12,200.00	6,027.00	5,762.00	5,725.94	114.71	19.89	-78.49	5,575.37	-2,856.39	1,511.28	1,380.90	130.38	11.591		
12,300.00	6,027.00	5,752.33	5,716.99	116.41	19.87	-78.13	5,579.03	-2,856.44	1,555.58	1,425.36	130.22	11.946		
12,400.00	6,027.00	5,730.00	5,696.14	118.11	19.82	-77.28	5,587.02	-2,856.59	1,604.58	1,474.86	129.72	12.370		
12,500.00	6,027.00	5,719.17	5,685.94	119.82	19.80	-76.87	5,590.67	-2,856.66	1,657.77	1,528.74	129.03	12.848		
12,600.00	6,027.00	5,698.00	5,665.86	121.53	19.76	-76.06	5,597.36	-2,856.65	1,714.83	1,586.72	128.11	13.385		
12,700.00	6,027.00	5,688.17	5,656.47	123.24	19.73	-75.68	5,600.26	-2,856.59	1,775.41	1,648.31	127.10	13.969		
12,800.00	6,027.00	5,676.70	5,645.45	124.95	19.71	-75.24	5,603.45	-2,856.47	1,839.25	1,713.28	125.97	14.601		
12,900.00	6,027.00	5,667.00	5,636.09	126.66	19.68	-74.87	5,606.00	-2,856.33	1,906.05	1,781.27	124.77	15.276		
13,000.00	6,027.00	5,667.00	5,636.09	128.38	19.68	-74.87	5,606.00	-2,856.33	1,975.59	1,852.03	123.56	15.989		
13,100.00	6,027.00	5,653.60	5,623.09	130.10	19.65	-74.35	5,609.24	-2,856.10	2,047.48	1,925.21	122.27	16.745		
13,200.00	6,027.00	5,648.02	5,617.65	131.82	19.64	-74.14	5,610.48	-2,855.99	2,121.64	2,000.63	121.01	17.533		
13,300.00	6,027.00	5,635.00	5,604.91	133.54	19.61	-73.63	5,613.14	-2,855.72	2,197.85	2,078.14	119.71	18.359		
13,400.00	6,027.00	5,635.00	5,604.91	135.26	19.61	-73.63	5,613.14	-2,855.72	2,275.76	2,157.27	118.49	19.206		
13,500.00	6,027.00	5,635.00	5,604.91	136.98	19.61	-73.63	5,613.14	-2,855.72	2,355.33	2,238.04	117.29	20.082		
13,600.00	6,027.00	5,635.00	5,604.91	138.71	19.61	-73.63	5,613.14	-2,855.72	2,436.41	2,320.30	116.11	20.983		
13,700.00	6,027.00	5,635.00	5,604.91	140.43	19.61	-73.63	5,613.14	-2,855.72	2,518.85	2,403.88	114.97	21.909		
13,800.00	6,027.00	5,635.00	5,604.91	142.16	19.61	-73.63	5,613.14	-2,855.72	2,602.52	2,488.66	113.86	22.857		
13,900.00	6,027.00	5,635.00	5,604.91	143.89	19.61	-73.63	5,613.14	-2,855.72	2,687.30	2,574.52	112.79	23.826		
14,000.00	6,027.00	5,621.32	5,591.44	145.62	19.57	-73.10	5,615.54	-2,855.46	2,772.86	2,661.14	111.72	24.820		
14,100.00	6,027.00	5,619.19	5,589.34	147.35	19.56	-73.02	5,615.88	-2,855.43	2,859.50	2,748.78	110.72	25.827		
14,200.00	6,027.00	5,604.00	5,574.30	149.08	19.52	-72.43	5,617.96	-2,855.26	2,947.21	2,837.49	109.72	26.862		
14,300.00	6,027.00	5,604.00	5,574.30	150.81	19.52	-72.43	5,617.96	-2,855.26	3,035.39	2,926.58	108.80	27.898		
14,400.00	6,027.00	5,604.00	5,574.30	152.54	19.52	-72.43	5,617.96	-2,855.26	3,124.28	3,016.35	107.93	28.948		
14,500.00	6,027.00	5,604.00	5,574.30	154.28	19.52	-72.43	5,617.96	-2,855.26	3,213.82	3,106.74	107.09	30.012		
14,600.00	6,027.00	5,604.00	5,574.30	156.01	19.52	-72.43	5,617.96	-2,855.26	3,303.97	3,197.69	106.28	31.088		
14,700.00	6,027.00	5,604.00	5,574.30	157.75	19.52	-72.43	5,617.96	-2,855.26	3,394.66	3,289.16	105.50	32.176		
14,800.00	6,027.00	5,604.00	5,574.30	159.49	19.52	-72.43	5,617.96	-2,855.26	3,485.87	3,381.11	104.76	33.274		
14,900.00	6,027.00	5,604.00	5,574.30	161.22	19.52	-72.43	5,617.96	-2,855.26	3,577.55	3,473.49	104.05	34.382		
15,000.00	6,027.00	5,604.00	5,574.30	162.96	19.52	-72.43	5,617.96	-2,855.26	3,669.66	3,566.29	103.37	35.500		
15,100.00	6,027.00	5,604.00	5,574.30	164.70	19.52	-72.43	5,617.96	-2,855.26	3,762.17	3,659.45	102.72	36.627		
15,200.00	6,027.00	5,604.00	5,574.30	166.44	19.52	-72.43	5,617.96	-2,855.26	3,855.06	3,752.97	102.09	37.762		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 517-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,300.00	6,027.00	5,604.00	5,574.30	168.18	19.52	-72.43	5,617.96	-2,855.26	3,948.29	3,846.80	101.49	38.904	
15,400.00	6,027.00	5,604.00	5,574.30	169.93	19.52	-72.43	5,617.96	-2,855.26	4,041.85	3,940.94	100.91	40.053	
15,500.00	6,027.00	5,604.00	5,574.30	171.67	19.52	-72.43	5,617.96	-2,855.26	4,135.71	4,035.35	100.36	41.209	
15,600.00	6,027.00	5,604.00	5,574.30	173.41	19.52	-72.43	5,617.96	-2,855.26	4,229.85	4,130.02	99.83	42.371	
15,700.00	6,027.00	5,604.00	5,574.30	175.15	19.52	-72.43	5,617.96	-2,855.26	4,324.26	4,224.94	99.32	43.539	
15,800.00	6,027.00	5,604.00	5,574.30	176.90	19.52	-72.43	5,617.96	-2,855.26	4,418.91	4,320.08	98.83	44.713	
15,900.00	6,027.00	5,604.00	5,574.30	178.64	19.52	-72.43	5,617.96	-2,855.26	4,513.79	4,415.43	98.36	45.891	
16,000.00	6,027.00	5,604.00	5,574.30	180.39	19.52	-72.43	5,617.96	-2,855.26	4,608.88	4,510.98	97.91	47.074	
16,100.00	6,027.00	5,604.00	5,574.30	182.13	19.52	-72.43	5,617.96	-2,855.26	4,704.19	4,606.71	97.47	48.261	
16,200.00	6,027.00	5,604.00	5,574.30	183.88	19.52	-72.43	5,617.96	-2,855.26	4,799.68	4,702.62	97.06	49.453	
16,300.00	6,027.00	5,604.00	5,574.30	185.63	19.52	-72.43	5,617.96	-2,855.26	4,895.35	4,798.70	96.65	50.648	
16,400.00	6,027.00	5,604.00	5,574.30	187.38	19.52	-72.43	5,617.96	-2,855.26	4,991.19	4,894.92	96.27	51.847	
16,500.00	6,027.00	5,604.00	5,574.30	189.12	19.52	-72.43	5,617.96	-2,855.26	5,087.19	4,991.30	95.90	53.049	
16,600.00	6,027.00	5,604.00	5,574.30	190.87	19.52	-72.43	5,617.96	-2,855.26	5,183.35	5,087.81	95.54	54.254	
16,700.00	6,027.00	5,588.82	5,559.20	192.62	19.48	-71.85	5,619.52	-2,855.17	5,279.36	5,184.20	95.16	55.479	
16,795.97	6,027.00	5,588.20	5,558.58	194.30	19.48	-71.83	5,619.57	-2,855.17	5,371.88	5,277.04	94.84	56.642	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 8-T5N-R61W - EXIST PRONGHORN K-O-17HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	53.43	53.43	0.27	0.13	-83.15	661.09	-5,507.03	5,546.57	5,546.17	0.40	N/A		
200.00	200.00	158.39	158.39	0.63	0.51	-83.16	660.81	-5,507.18	5,546.68	5,545.55	1.13	4,894.533		
300.00	300.00	277.57	277.57	0.99	0.92	-83.16	660.25	-5,506.90	5,546.38	5,544.47	1.91	2,906.482		
400.00	400.00	407.98	407.97	1.34	1.37	-83.16	660.73	-5,505.98	5,545.71	5,543.00	2.72	2,042.186		
500.00	500.00	504.61	504.60	1.70	1.71	-83.15	661.26	-5,505.05	5,544.83	5,541.42	3.41	1,625.210		
600.00	600.00	606.76	606.74	2.06	2.07	-83.14	661.86	-5,504.10	5,543.97	5,539.84	4.13	1,342.335		
700.00	700.00	708.06	708.03	2.42	2.43	-83.13	662.74	-5,503.04	5,543.04	5,538.19	4.85	1,143.660		
800.00	800.00	777.90	777.86	2.78	2.67	-83.13	663.40	-5,502.43	5,542.32	5,536.87	5.45	1,016.794		
845.00	845.00	803.94	803.91	2.94	2.76	-83.12	663.57	-5,502.36	5,542.22	5,536.52	5.70	971.782		
900.00	900.00	844.75	844.71	3.14	2.91	-83.12	663.76	-5,502.40	5,542.30	5,536.26	6.04	917.176		
1,000.00	999.98	945.37	945.33	3.49	3.26	6.15	664.54	-5,502.49	5,540.75	5,534.01	6.74	821.527		
1,100.00	1,099.84	1,032.40	1,032.36	3.83	3.56	6.17	665.35	-5,502.66	5,535.86	5,528.46	7.40	748.575		
1,200.00	1,199.45	1,119.27	1,119.22	4.19	3.87	6.21	666.30	-5,503.07	5,527.78	5,519.74	8.05	686.799		
1,300.00	1,298.70	1,228.79	1,228.73	4.55	4.26	6.26	667.77	-5,503.58	5,516.30	5,507.51	8.79	627.853		
1,400.00	1,397.47	1,349.75	1,349.68	4.94	4.68	6.33	668.61	-5,503.83	5,501.02	5,491.46	9.57	574.953		
1,500.00	1,495.62	2,926.17	2,900.54	5.34	10.75	7.02	664.76	-5,308.42	5,482.33	5,467.22	15.11	362.821		
1,600.00	1,593.06	2,999.00	2,970.44	5.78	11.10	7.09	655.17	-5,290.40	5,435.12	5,419.41	15.71	345.953		
1,700.00	1,689.64	3,042.33	3,011.92	6.24	11.30	7.18	648.03	-5,280.13	5,385.38	5,369.16	16.22	331.999		
1,800.00	1,785.27	3,546.37	3,491.09	6.75	13.97	6.93	581.12	-5,144.11	5,332.27	5,314.07	18.19	293.105		
1,900.00	1,880.44	3,615.00	3,555.89	7.30	14.37	7.01	581.63	-5,121.53	5,272.33	5,253.56	18.77	280.960		
2,000.00	1,975.60	3,685.37	3,622.33	7.86	14.79	7.10	583.20	-5,098.41	5,212.55	5,193.20	19.35	269.384		
2,100.00	2,070.77	3,772.15	3,704.27	8.43	15.30	7.22	584.86	-5,069.89	5,152.77	5,132.78	19.99	257.765		
2,200.00	2,165.93	3,851.44	3,779.18	9.02	15.79	7.32	585.18	-5,043.88	5,092.92	5,072.31	20.61	247.051		
2,300.00	2,261.10	3,936.41	3,859.50	9.62	16.31	7.39	583.36	-5,016.25	5,033.08	5,011.82	21.26	236.712		
2,400.00	2,356.26	4,021.78	3,940.18	10.23	16.84	7.42	578.62	-4,988.73	4,973.12	4,951.21	21.92	226.911		
2,500.00	2,451.43	4,108.38	4,021.93	10.84	17.39	7.42	571.79	-4,961.01	4,913.09	4,890.52	22.58	217.599		
2,600.00	2,546.59	4,189.21	4,098.22	11.46	17.91	7.43	565.63	-4,935.01	4,852.97	4,829.74	23.23	208.932		
2,700.00	2,641.76	4,269.56	4,174.07	12.09	18.42	7.44	559.84	-4,909.15	4,792.88	4,769.00	23.88	200.726		
2,800.00	2,736.92	4,346.51	4,246.72	12.72	18.92	7.46	554.87	-4,884.27	4,732.75	4,708.23	24.52	193.004		
2,900.00	2,832.09	4,418.35	4,314.59	13.35	19.39	7.48	549.91	-4,861.23	4,672.78	4,647.63	25.15	185.763		
3,000.00	2,927.25	4,510.32	4,401.42	13.99	19.99	7.49	543.21	-4,831.70	4,612.74	4,586.90	25.84	178.489		
3,100.00	3,022.42	4,591.07	4,477.67	14.63	20.51	7.54	539.44	-4,805.37	4,552.58	4,526.07	26.50	171.774		
3,200.00	3,117.58	4,657.45	4,540.36	15.27	20.95	7.61	538.44	-4,783.59	4,492.55	4,465.42	27.13	165.604		
3,300.00	3,212.75	4,738.85	4,617.24	15.91	21.48	7.72	538.45	-4,756.84	4,432.66	4,404.86	27.79	159.493		
3,400.00	3,307.91	4,825.75	4,699.31	16.56	22.05	7.83	537.96	-4,728.25	4,372.68	4,344.21	28.47	153.582		
3,500.00	3,403.08	4,877.01	4,747.74	17.20	22.38	7.89	537.14	-4,711.51	4,312.84	4,283.76	29.07	148.356		
3,600.00	3,498.24	4,933.00	4,800.86	17.85	22.75	7.94	535.39	-4,693.89	4,253.73	4,224.05	29.69	143.293		
3,700.00	3,593.41	5,033.38	4,896.07	18.50	23.40	8.01	530.91	-4,662.43	4,194.72	4,164.32	30.40	137.978		
3,800.00	3,688.57	5,103.42	4,962.44	19.15	23.86	8.06	527.48	-4,640.31	4,135.40	4,104.35	31.05	133.172		
3,900.00	3,783.74	5,197.68	5,051.73	19.81	24.48	8.11	522.11	-4,610.62	4,076.07	4,044.32	31.76	128.354		
4,000.00	3,878.90	5,291.13	5,140.16	20.46	25.10	8.16	516.90	-4,580.84	4,016.46	3,984.00	32.46	123.743		
4,100.00	3,974.07	5,347.32	5,193.37	21.11	25.47	8.21	514.62	-4,562.92	3,956.98	3,923.89	33.09	119.584		
4,200.00	4,069.23	5,418.69	5,261.06	21.77	25.94	8.28	512.10	-4,540.42	3,897.88	3,864.12	33.75	115.483		
4,300.00	4,164.40	5,503.31	5,341.30	22.42	26.50	8.34	507.48	-4,513.97	3,838.79	3,804.34	34.44	111.459		
4,400.00	4,259.56	5,586.41	5,420.06	23.08	27.05	8.38	502.23	-4,488.00	3,779.59	3,744.46	35.13	107.596		
4,500.00	4,354.73	5,665.17	5,494.72	23.74	27.57	8.43	497.58	-4,463.34	3,720.42	3,684.61	35.81	103.898		
4,600.00	4,449.89	5,779.94	5,603.26	24.39	28.34	8.47	489.12	-4,427.23	3,660.92	3,624.38	36.54	100.186		
4,700.00	4,545.06	6,400.96	6,050.62	25.05	32.51	1.80	137.51	-4,273.24	3,595.26	3,556.30	38.96	92.292		
4,800.00	4,640.22	6,424.00	6,058.17	25.71	32.67	1.33	115.91	-4,270.53	3,527.27	3,487.54	39.73	88.779		
4,900.00	4,735.39	6,424.00	6,058.17	26.37	32.67	1.33	115.91	-4,270.53	3,460.69	3,420.34	40.35	85.777		
5,000.00	4,830.55	6,424.00	6,058.17	27.03	32.67	1.33	115.91	-4,270.53	3,395.74	3,354.78	40.97	82.892		
5,100.00	4,925.72	6,424.00	6,058.17	27.69	32.67	1.33	115.91	-4,270.53	3,332.54	3,290.95	41.59	80.126		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 8-T5N-R61W - EXIST PRONGHORN K-O-17HNB - OWB - FINAL SURVEY		Offset Site Error:		0.00 usft
Survey Program:		17-MWD OWSG											Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
5,200.00	5,020.88	6,458.24	6,068.10	28.35	32.88	0.61	83.29	-4,267.44	3,270.71	3,228.20	42.51	76.937					
5,300.00	5,116.05	6,466.93	6,070.38	29.01	32.93	0.43	74.93	-4,266.84	3,210.99	3,167.76	43.22	74.291					
5,400.00	5,211.21	6,475.01	6,072.42	29.67	32.98	0.26	67.13	-4,266.35	3,153.24	3,109.31	43.93	71.782					
5,500.00	5,306.38	6,482.55	6,074.23	30.33	33.03	0.10	59.82	-4,265.94	3,097.59	3,052.96	44.63	69.410					
5,600.00	5,401.54	6,512.00	6,080.62	30.99	33.21	-0.54	31.09	-4,264.89	3,044.40	2,998.86	45.54	66.852					
5,700.00	5,496.71	6,512.00	6,080.62	31.65	33.21	-5.45	31.09	-4,264.89	2,993.20	2,947.05	46.16	64.850					
5,800.00	5,591.13	6,512.00	6,080.62	32.30	33.21	-37.97	31.09	-4,264.89	2,944.85	2,898.07	46.78	62.950					
5,900.00	5,682.22	6,512.00	6,080.62	32.92	33.21	-59.68	31.09	-4,264.89	2,900.80	2,853.37	47.43	61.160					
6,000.00	5,767.23	6,512.00	6,080.62	33.50	33.21	-73.34	31.09	-4,264.89	2,862.61	2,814.48	48.13	59.476					
6,100.00	5,843.56	6,475.96	6,072.65	34.04	32.98	-81.52	66.21	-4,266.29	2,830.93	2,782.44	48.49	58.386					
6,200.00	5,908.90	6,460.18	6,068.62	34.53	32.89	-87.07	81.43	-4,267.30	2,807.61	2,758.41	49.20	57.064					
6,300.00	5,961.25	6,424.00	6,058.17	34.99	32.67	-90.16	115.91	-4,270.53	2,793.22	2,743.42	49.80	56.088					
6,400.00	5,999.04	6,424.00	6,058.17	35.42	32.67	-92.06	115.91	-4,270.53	2,787.56	2,736.48	51.07	54.582					
6,408.08	6,001.42	6,424.00	6,058.17	35.45	32.67	-92.14	115.91	-4,270.53	2,787.52	2,736.34	51.18	54.461 CC, ES					
6,500.00	6,021.11	6,424.00	6,058.17	35.83	32.67	-92.39	115.91	-4,270.53	2,791.65	2,739.12	52.53	53.145					
6,600.00	6,027.00	6,373.03	6,040.54	36.24	32.33	-91.17	163.25	-4,277.17	2,803.54	2,750.22	53.31	52.586					
6,700.00	6,027.00	6,336.00	6,025.64	36.68	32.09	-90.86	196.55	-4,283.49	2,820.77	2,766.37	54.40	51.849					
6,800.00	6,027.00	6,312.55	6,015.17	37.20	31.93	-90.64	217.06	-4,287.89	2,840.35	2,784.54	55.81	50.889					
6,900.00	6,027.00	6,248.00	5,981.51	37.80	31.50	-89.95	270.72	-4,300.11	2,862.04	2,805.36	56.69	50.488					
7,000.00	6,027.00	6,248.00	5,981.51	38.47	31.50	-89.95	270.72	-4,300.11	2,885.87	2,827.29	58.58	49.265					
7,100.00	6,027.00	6,214.49	5,961.54	39.21	31.27	-89.54	296.76	-4,306.87	2,912.16	2,852.13	60.03	48.512					
7,200.00	6,027.00	6,196.17	5,950.03	40.02	31.15	-89.31	310.42	-4,310.91	2,941.26	2,879.54	61.72	47.659					
7,300.00	6,027.00	6,162.00	5,927.51	40.89	30.93	-88.85	334.79	-4,319.08	2,973.20	2,910.02	63.19	47.054					
7,400.00	6,027.00	6,162.00	5,927.51	41.83	30.93	-88.85	334.79	-4,319.08	3,007.33	2,942.22	65.11	46.185					
7,500.00	6,027.00	6,162.00	5,927.51	42.83	30.93	-88.85	334.79	-4,319.08	3,044.37	2,977.35	67.01	45.428					
7,600.00	6,027.00	6,121.56	5,899.04	43.88	30.64	-88.27	361.58	-4,329.37	3,083.31	3,014.94	68.37	45.097					
7,700.00	6,027.00	6,074.00	5,863.07	44.99	30.32	-87.56	390.08	-4,341.80	3,125.29	3,055.66	69.63	44.887					
7,800.00	6,027.00	6,074.00	5,863.07	46.14	30.32	-87.56	390.08	-4,341.80	3,168.67	3,097.27	71.41	44.375					
7,900.00	6,027.00	6,074.00	5,863.07	47.33	30.32	-87.56	390.08	-4,341.80	3,214.58	3,141.45	73.13	43.957					
8,000.00	6,027.00	6,074.00	5,863.07	48.57	30.32	-87.56	390.08	-4,341.80	3,262.91	3,188.12	74.79	43.625					
8,100.00	6,027.00	6,041.48	5,837.10	49.84	30.10	-87.04	407.64	-4,350.44	3,312.95	3,236.89	76.07	43.552					
8,200.00	6,027.00	6,028.36	5,826.34	51.15	30.02	-86.83	414.28	-4,353.94	3,365.20	3,287.71	77.49	43.430					
8,300.00	6,027.00	5,987.00	5,791.45	52.48	29.74	-86.14	433.52	-4,365.01	3,419.89	3,341.31	78.58	43.521					
8,400.00	6,027.00	5,987.00	5,791.45	53.85	29.74	-86.14	433.52	-4,365.01	3,475.63	3,395.62	80.01	43.440					
8,500.00	6,027.00	5,987.00	5,791.45	55.24	29.74	-86.14	433.52	-4,365.01	3,533.32	3,451.95	81.37	43.421 SF					
8,600.00	6,027.00	5,987.00	5,791.45	56.65	29.74	-86.14	433.52	-4,365.01	3,592.87	3,510.20	82.67	43.459					
8,700.00	6,027.00	5,987.00	5,791.45	58.08	29.74	-86.14	433.52	-4,365.01	3,654.19	3,570.28	83.91	43.548					
8,800.00	6,027.00	5,987.00	5,791.45	59.54	29.74	-86.14	433.52	-4,365.01	3,717.19	3,632.10	85.09	43.686					
8,900.00	6,027.00	5,987.00	5,791.45	61.01	29.74	-86.14	433.52	-4,365.01	3,781.78	3,695.57	86.21	43.868					
9,000.00	6,027.00	5,987.00	5,791.45	62.50	29.74	-86.14	433.52	-4,365.01	3,847.88	3,760.62	87.27	44.092					
9,100.00	6,027.00	5,987.00	5,791.45	64.01	29.74	-86.14	433.52	-4,365.01	3,915.43	3,827.15	88.28	44.354					
9,200.00	6,027.00	5,944.77	5,754.61	65.53	29.46	-85.43	450.51	-4,376.70	3,982.90	3,893.95	88.96	44.774					
9,300.00	6,027.00	5,939.13	5,749.62	67.06	29.42	-85.33	452.57	-4,378.32	4,052.69	3,962.85	89.84	45.112					
9,400.00	6,027.00	5,900.00	5,714.58	68.61	29.16	-84.66	465.58	-4,389.88	4,124.60	4,034.14	90.46	45.597					
9,500.00	6,027.00	5,900.00	5,714.58	70.17	29.16	-84.66	465.58	-4,389.88	4,196.46	4,105.16	91.29	45.968					
9,600.00	6,027.00	5,900.00	5,714.58	71.73	29.16	-84.66	465.58	-4,389.88	4,269.45	4,177.37	92.08	46.367					
9,700.00	6,027.00	5,900.00	5,714.58	73.31	29.16	-84.66	465.58	-4,389.88	4,343.52	4,250.69	92.83	46.791					
9,800.00	6,027.00	5,900.00	5,714.58	74.90	29.16	-84.66	465.58	-4,389.88	4,418.61	4,325.07	93.54	47.238					
9,900.00	6,027.00	5,900.00	5,714.58	76.50	29.16	-84.66	465.58	-4,389.88	4,494.67	4,400.46	94.21	47.708					
10,000.00	6,027.00	5,900.00	5,714.58	78.10	29.16	-84.66	465.58	-4,389.88	4,571.65	4,476.80	94.85	48.199					
10,100.00	6,027.00	5,900.00	5,714.58	79.71	29.16	-84.66	465.58	-4,389.88	4,649.51	4,554.06	95.46	48.709					
10,200.00	6,027.00	5,900.00	5,714.58	81.33	29.16	-84.66	465.58	-4,389.88	4,728.21	4,632.18	96.03	49.237					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	5,900.00	5,714.58	82.96	29.16	-84.66	465.58	-4,389.88	4,807.69	4,711.12	96.57	49.782		
10,400.00	6,027.00	5,900.00	5,714.58	84.59	29.16	-84.66	465.58	-4,389.88	4,887.93	4,790.84	97.09	50.343		
10,500.00	6,027.00	5,900.00	5,714.58	86.23	29.16	-84.66	465.58	-4,389.88	4,968.88	4,871.30	97.58	50.920		
10,600.00	6,027.00	5,900.00	5,714.58	87.87	29.16	-84.66	465.58	-4,389.88	5,050.52	4,952.47	98.05	51.510		
10,700.00	6,027.00	5,900.00	5,714.58	89.52	29.16	-84.66	465.58	-4,389.88	5,132.81	5,034.31	98.49	52.113		
10,800.00	6,027.00	5,900.00	5,714.58	91.17	29.16	-84.66	465.58	-4,389.88	5,215.71	5,116.80	98.92	52.729		
10,900.00	6,027.00	5,900.00	5,714.58	92.83	29.16	-84.66	465.58	-4,389.88	5,299.21	5,199.89	99.32	53.357		
11,000.00	6,027.00	5,900.00	5,714.58	94.49	29.16	-84.66	465.58	-4,389.88	5,383.27	5,283.57	99.70	53.996		
11,100.00	6,027.00	5,900.00	5,714.58	96.16	29.16	-84.66	465.58	-4,389.88	5,467.86	5,367.80	100.06	54.645		
11,200.00	6,027.00	5,900.00	5,714.58	97.83	29.16	-84.66	465.58	-4,389.88	5,552.97	5,452.56	100.41	55.304		
11,300.00	6,027.00	5,900.00	5,714.58	99.50	29.16	-84.66	465.58	-4,389.88	5,638.57	5,537.83	100.74	55.972		
11,400.00	6,027.00	5,860.57	5,678.60	101.18	28.89	-83.97	476.25	-4,401.96	5,723.33	5,622.40	100.93	56.708		
11,500.00	6,027.00	5,858.13	5,676.35	102.86	28.87	-83.93	476.83	-4,402.71	5,809.67	5,708.44	101.22	57.395		
11,600.00	6,027.00	5,855.77	5,674.18	104.54	28.85	-83.89	477.38	-4,403.44	5,896.43	5,794.92	101.51	58.090		
11,700.00	6,027.00	5,853.49	5,672.07	106.23	28.84	-83.85	477.90	-4,404.15	5,983.60	5,881.82	101.78	58.792		
11,800.00	6,027.00	5,812.00	5,633.49	107.92	28.55	-83.13	485.89	-4,417.13	6,072.45	5,970.55	101.90	59.590		
11,900.00	6,027.00	5,812.00	5,633.49	109.61	28.55	-83.13	485.89	-4,417.13	6,160.24	6,058.08	102.16	60.299		
12,000.00	6,027.00	5,812.00	5,633.49	111.31	28.55	-83.13	485.89	-4,417.13	6,248.40	6,145.99	102.41	61.015		
12,100.00	6,027.00	5,812.00	5,633.49	113.00	28.55	-83.13	485.89	-4,417.13	6,336.90	6,234.26	102.64	61.737		
12,200.00	6,027.00	5,812.00	5,633.49	114.71	28.55	-83.13	485.89	-4,417.13	6,425.75	6,322.88	102.87	62.465		
12,300.00	6,027.00	5,812.00	5,633.49	116.41	28.55	-83.13	485.89	-4,417.13	6,514.92	6,411.83	103.09	63.199		
12,400.00	6,027.00	5,812.00	5,633.49	118.11	28.55	-83.13	485.89	-4,417.13	6,604.40	6,501.10	103.29	63.938		
12,500.00	6,027.00	5,812.00	5,633.49	119.82	28.55	-83.13	485.89	-4,417.13	6,694.17	6,590.68	103.49	64.682		
12,600.00	6,027.00	5,812.00	5,633.49	121.53	28.55	-83.13	485.89	-4,417.13	6,784.23	6,680.55	103.68	65.431		
12,700.00	6,027.00	5,812.00	5,633.49	123.24	28.55	-83.13	485.89	-4,417.13	6,874.57	6,770.70	103.87	66.185		
12,800.00	6,027.00	5,812.00	5,633.49	124.95	28.55	-83.13	485.89	-4,417.13	6,965.17	6,861.13	104.05	66.943		
12,900.00	6,027.00	5,812.00	5,633.49	126.66	28.55	-83.13	485.89	-4,417.13	7,056.03	6,951.81	104.22	67.706		
13,000.00	6,027.00	5,812.00	5,633.49	128.38	28.55	-83.13	485.89	-4,417.13	7,147.13	7,042.75	104.38	68.472		
13,100.00	6,027.00	5,812.00	5,633.49	130.10	28.55	-83.13	485.89	-4,417.13	7,238.46	7,133.92	104.54	69.242		
13,200.00	6,027.00	5,812.00	5,633.49	131.82	28.55	-83.13	485.89	-4,417.13	7,330.02	7,225.33	104.69	70.016		
13,300.00	6,027.00	5,812.00	5,633.49	133.54	28.55	-83.13	485.89	-4,417.13	7,421.80	7,316.96	104.84	70.793		
13,400.00	6,027.00	5,812.00	5,633.49	135.26	28.55	-83.13	485.89	-4,417.13	7,513.79	7,408.81	104.98	71.574		
13,500.00	6,027.00	5,812.00	5,633.49	136.98	28.55	-83.13	485.89	-4,417.13	7,605.98	7,500.86	105.12	72.358		
13,600.00	6,027.00	5,812.00	5,633.49	138.71	28.55	-83.13	485.89	-4,417.13	7,698.36	7,593.11	105.25	73.145		
13,700.00	6,027.00	5,812.00	5,633.49	140.43	28.55	-83.13	485.89	-4,417.13	7,790.93	7,685.56	105.38	73.934		
13,800.00	6,027.00	5,812.00	5,633.49	142.16	28.55	-83.13	485.89	-4,417.13	7,883.69	7,778.19	105.50	74.727		
13,900.00	6,027.00	5,812.00	5,633.49	143.89	28.55	-83.13	485.89	-4,417.13	7,976.62	7,871.00	105.62	75.522		
14,000.00	6,027.00	5,812.00	5,633.49	145.62	28.55	-83.13	485.89	-4,417.13	8,069.72	7,963.98	105.74	76.319		
14,100.00	6,027.00	5,812.00	5,633.49	147.35	28.55	-83.13	485.89	-4,417.13	8,162.98	8,057.13	105.85	77.119		
14,200.00	6,027.00	5,812.00	5,633.49	149.08	28.55	-83.13	485.89	-4,417.13	8,256.40	8,150.44	105.96	77.921		
14,300.00	6,027.00	5,812.00	5,633.49	150.81	28.55	-83.13	485.89	-4,417.13	8,349.97	8,243.91	106.06	78.726		
14,400.00	6,027.00	5,812.00	5,633.49	152.54	28.55	-83.13	485.89	-4,417.13	8,443.69	8,337.52	106.17	79.532		
14,500.00	6,027.00	5,812.00	5,633.49	154.28	28.55	-83.13	485.89	-4,417.13	8,537.55	8,431.29	106.27	80.340		
14,600.00	6,027.00	5,812.00	5,633.49	156.01	28.55	-83.13	485.89	-4,417.13	8,631.55	8,525.19	106.36	81.151		
14,700.00	6,027.00	5,812.00	5,633.49	157.75	28.55	-83.13	485.89	-4,417.13	8,725.69	8,619.23	106.46	81.963		
14,800.00	6,027.00	5,812.00	5,633.49	159.49	28.55	-83.13	485.89	-4,417.13	8,819.95	8,713.40	106.55	82.776		
14,900.00	6,027.00	5,812.00	5,633.49	161.22	28.55	-83.13	485.89	-4,417.13	8,914.34	8,807.69	106.64	83.592		
15,000.00	6,027.00	5,812.00	5,633.49	162.96	28.55	-83.13	485.89	-4,417.13	9,008.84	8,902.11	106.73	84.408		
15,100.00	6,027.00	5,812.00	5,633.49	164.70	28.55	-83.13	485.89	-4,417.13	9,103.47	8,996.66	106.81	85.227		
15,200.00	6,027.00	5,812.00	5,633.49	166.44	28.55	-83.13	485.89	-4,417.13	9,198.21	9,091.31	106.90	86.047		
15,300.00	6,027.00	5,812.00	5,633.49	168.18	28.55	-83.13	485.89	-4,417.13	9,293.06	9,186.08	106.98	86.868		
15,400.00	6,027.00	5,812.00	5,633.49	169.93	28.55	-83.13	485.89	-4,417.13	9,388.02	9,280.96	107.06	87.690		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
SEC 8-T5N-R61W - EXIST PRONGHORN K-O-17HNB - OWB - FINAL SURVEY												<b>Offset Well Error:</b>	0.00 usft
Survey Program: 17-MWD OWSG													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	6,027.00	5,812.00	5,633.49	171.67	28.55	-83.13	485.89	-4,417.13	9,483.08	9,375.94	107.14	88.513	
15,600.00	6,027.00	5,812.00	5,633.49	173.41	28.55	-83.13	485.89	-4,417.13	9,578.24	9,471.02	107.21	89.338	
15,700.00	6,027.00	5,812.00	5,633.49	175.15	28.55	-83.13	485.89	-4,417.13	9,673.50	9,566.21	107.29	90.164	
15,800.00	6,027.00	5,812.00	5,633.49	176.90	28.55	-83.13	485.89	-4,417.13	9,768.85	9,661.49	107.36	90.991	
15,900.00	6,027.00	5,812.00	5,633.49	178.64	28.55	-83.13	485.89	-4,417.13	9,864.29	9,756.86	107.43	91.818	
16,000.00	6,027.00	5,812.00	5,633.49	180.39	28.55	-83.13	485.89	-4,417.13	9,959.83	9,852.33	107.50	92.647	
16,100.00	6,027.00	5,812.00	5,633.49	182.13	28.55	-83.13	485.89	-4,417.13	10,055.45	9,947.88	107.57	93.476	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 12-9 (GYRO) - GYRO SURVEY - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 50-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	88.77	88.77	0.27	0.21	-13.13	3,676.14	-857.66	3,774.88	3,774.40	0.48	7,946.263		
200.00	200.00	205.72	205.72	0.63	0.61	-13.13	3,676.13	-857.53	3,774.84	3,773.60	1.24	3,041.641		
300.00	300.00	303.76	303.76	0.99	0.96	-13.13	3,676.02	-857.33	3,774.68	3,772.73	1.94	1,944.110		
400.00	400.00	401.46	401.46	1.34	1.30	-13.12	3,675.94	-857.10	3,774.54	3,771.90	2.64	1,429.033		
500.00	500.00	501.62	501.61	1.70	1.65	-13.12	3,675.86	-856.67	3,774.37	3,771.02	3.35	1,126.728		
600.00	600.00	603.04	603.04	2.06	2.01	-13.11	3,675.77	-856.26	3,774.19	3,770.13	4.06	928.986		
700.00	700.00	702.48	702.48	2.42	2.35	-13.11	3,675.71	-855.85	3,774.04	3,769.27	4.77	791.436		
800.00	800.00	798.35	798.34	2.78	2.69	-13.10	3,675.70	-855.54	3,773.95	3,768.49	5.46	690.968		
900.00	900.00	904.34	904.34	3.14	3.06	-13.10	3,675.59	-855.38	3,773.82	3,767.63	6.19	609.594		
1,000.00	999.98	1,002.05	1,002.05	3.49	3.40	76.19	3,675.44	-855.31	3,773.24	3,766.35	6.88	548.190		
1,100.00	1,099.84	1,104.40	1,104.39	3.83	3.76	76.30	3,675.22	-855.23	3,771.76	3,764.17	7.59	497.071		
1,200.00	1,199.45	1,197.29	1,197.28	4.19	4.09	76.46	3,675.13	-855.12	3,769.58	3,761.31	8.27	455.958		
1,300.00	1,298.70	1,296.69	1,296.68	4.55	4.43	76.70	3,675.05	-855.09	3,766.65	3,757.66	8.98	419.390		
1,400.00	1,397.47	1,402.61	1,402.60	4.94	4.80	77.01	3,674.92	-855.12	3,762.93	3,753.19	9.73	386.580		
1,500.00	1,495.62	1,501.07	1,501.06	5.34	5.15	77.38	3,674.77	-855.06	3,758.46	3,747.98	10.48	358.562		
1,600.00	1,593.06	1,595.18	1,595.17	5.78	5.48	77.80	3,674.66	-854.92	3,753.36	3,742.11	11.24	333.865		
1,700.00	1,689.64	1,691.24	1,691.23	6.24	5.81	78.28	3,674.66	-854.94	3,747.81	3,735.77	12.04	311.238		
1,800.00	1,785.27	1,793.04	1,793.03	6.75	6.17	78.84	3,674.43	-855.09	3,741.55	3,728.65	12.90	289.987		
1,900.00	1,880.44	1,888.81	1,888.81	7.30	6.50	79.29	3,674.13	-855.17	3,735.14	3,721.36	13.78	271.150		
2,000.00	1,975.60	1,982.17	1,982.16	7.86	6.83	79.72	3,673.85	-855.30	3,728.99	3,714.33	14.66	254.378		
2,100.00	2,070.77	2,081.38	2,081.37	8.43	7.17	80.18	3,673.53	-855.45	3,723.05	3,707.47	15.58	238.968		
2,200.00	2,165.93	2,189.53	2,189.52	9.02	7.55	80.67	3,672.84	-856.16	3,717.14	3,700.60	16.54	224.684		
2,300.00	2,261.10	2,282.68	2,282.67	9.62	7.88	81.10	3,672.04	-856.73	3,711.25	3,693.78	17.47	212.466		
2,400.00	2,356.26	2,378.71	2,378.69	10.23	8.21	81.54	3,671.34	-857.27	3,705.72	3,687.31	18.41	201.288		
2,500.00	2,451.43	2,471.59	2,471.57	10.84	8.54	81.97	3,670.64	-857.65	3,700.37	3,681.02	19.35	191.238		
2,600.00	2,546.59	2,560.66	2,560.63	11.46	8.85	82.38	3,670.13	-857.93	3,695.43	3,675.15	20.28	182.199		
2,700.00	2,641.76	2,654.11	2,654.08	12.09	9.18	82.82	3,669.68	-858.18	3,690.81	3,669.57	21.24	173.800		
2,800.00	2,736.92	2,747.03	2,747.00	12.72	9.50	83.26	3,669.34	-858.12	3,686.51	3,664.31	22.19	166.114		
2,900.00	2,832.09	2,843.48	2,843.45	13.35	9.84	83.72	3,669.05	-857.90	3,682.51	3,659.35	23.17	158.967		
3,000.00	2,927.25	2,915.78	2,915.75	13.99	10.09	84.07	3,668.98	-857.81	3,678.97	3,654.91	24.06	152.928		
3,100.00	3,022.42	3,008.67	3,008.69	14.63	10.41	84.51	3,669.37	-857.81	3,676.18	3,651.16	25.02	146.925		
3,200.00	3,117.58	3,118.57	3,118.54	15.27	10.80	85.03	3,669.38	-858.06	3,673.27	3,647.22	26.05	141.024		
3,300.00	3,212.75	3,223.32	3,223.28	15.91	11.16	85.52	3,669.01	-858.97	3,670.31	3,643.25	27.06	135.644		
3,400.00	3,307.91	3,315.78	3,315.74	16.56	11.48	85.95	3,668.63	-859.79	3,667.55	3,639.52	28.03	130.845		
3,500.00	3,403.08	3,404.13	3,404.09	17.20	11.79	86.36	3,668.42	-860.57	3,665.19	3,636.20	28.99	126.438		
3,600.00	3,498.24	3,507.78	3,507.73	17.85	12.15	86.84	3,668.16	-861.68	3,663.06	3,633.06	30.00	122.101		
3,700.00	3,593.41	3,608.02	3,607.96	18.50	12.50	87.30	3,667.66	-862.83	3,660.94	3,629.94	31.00	118.086		
3,800.00	3,688.57	3,713.45	3,713.38	19.15	12.87	87.79	3,666.99	-864.07	3,658.94	3,626.92	32.02	114.261		
3,900.00	3,783.74	3,805.30	3,805.22	19.81	13.19	88.22	3,666.28	-864.95	3,657.04	3,624.04	33.00	110.827		
4,000.00	3,878.90	3,886.02	3,885.95	20.46	13.48	88.60	3,665.87	-865.49	3,655.63	3,621.69	33.93	107.725		
4,100.00	3,974.07	3,967.88	3,967.80	21.11	13.76	88.99	3,665.80	-865.68	3,654.86	3,619.98	34.87	104.799		
4,195.49	4,064.94	4,050.00	4,049.92	21.74	14.05	89.38	3,666.00	-865.90	3,654.65	3,618.87	35.79	102.127		
4,200.00	4,069.23	4,054.50	4,054.42	21.77	14.06	89.41	3,666.01	-865.91	3,654.65	3,618.82	35.83	101.999		
4,300.00	4,164.40	4,142.85	4,142.77	22.42	14.37	89.83	3,666.29	-866.14	3,654.79	3,618.00	36.79	99.338		
4,400.00	4,259.56	4,252.44	4,252.36	23.08	14.75	90.36	3,666.76	-866.11	3,655.29	3,617.46	37.83	96.633		
4,500.00	4,354.73	4,340.81	4,340.72	23.74	15.06	90.79	3,666.90	-865.22	3,655.81	3,617.03	38.79	94.252		
4,600.00	4,449.89	4,434.71	4,434.61	24.39	15.39	91.27	3,666.93	-863.47	3,656.52	3,616.76	39.77	91.946		
4,700.00	4,545.06	4,524.12	4,523.99	25.05	15.70	91.73	3,667.36	-861.59	3,657.94	3,617.21	40.73	89.805		
4,800.00	4,640.22	4,619.60	4,619.45	25.71	16.03	92.22	3,667.64	-859.38	3,659.49	3,617.77	41.72	87.724		
4,900.00	4,735.39	4,730.17	4,729.99	26.37	16.42	92.79	3,667.76	-856.68	3,661.17	3,618.42	42.75	85.636		
5,000.00	4,830.55	4,883.15	4,882.91	27.03	16.96	93.59	3,666.46	-852.87	3,662.28	3,618.34	43.93	83.361		
5,100.00	4,925.72	4,984.63	4,984.34	27.69	17.31	94.12	3,664.79	-850.06	3,662.94	3,618.00	44.93	81.517		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 12-9 (GYRO) - GYRO SURVEY - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 50-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	5,093.85	5,093.49	28.35	17.69	94.68	3,662.29	-847.31	3,663.25	3,617.29	45.96	79.704		
5,300.00	5,116.05	5,159.83	5,159.44	29.01	17.93	95.02	3,661.03	-845.74	3,664.22	3,617.38	46.84	78.228		
5,400.00	5,211.21	5,238.15	5,237.74	29.67	18.20	95.42	3,660.11	-844.07	3,666.15	3,618.39	47.76	76.765		
5,500.00	5,306.38	5,324.44	5,324.00	30.33	18.50	95.87	3,659.28	-842.10	3,668.59	3,619.89	48.70	75.329		
5,600.00	5,401.54	5,421.28	5,420.82	30.99	18.84	96.36	3,658.49	-839.82	3,671.47	3,621.79	49.68	73.906		
5,700.00	5,496.71	5,523.88	5,523.39	31.65	19.20	92.74	3,657.52	-837.75	3,674.33	3,623.66	50.67	72.510		
5,800.00	5,591.13	5,643.09	5,642.56	32.30	19.62	66.49	3,655.96	-835.14	3,666.42	3,614.69	51.73	70.871		
5,900.00	5,682.22	5,716.96	5,716.40	32.92	19.88	50.47	3,654.72	-833.41	3,641.51	3,588.87	52.63	69.185		
6,000.00	5,767.23	5,798.98	5,798.38	33.50	20.16	42.18	3,653.60	-831.20	3,601.03	3,547.49	53.54	67.261		
6,100.00	5,843.56	5,880.96	5,880.30	34.04	20.45	38.50	3,652.15	-828.61	3,545.65	3,491.25	54.41	65.168		
6,200.00	5,908.90	5,984.13	5,983.37	34.53	20.81	38.46	3,649.77	-824.75	3,477.13	3,421.83	55.30	62.877		
6,300.00	5,961.25	6,001.51	6,000.74	34.99	20.87	40.62	3,649.25	-824.11	3,397.54	3,341.69	55.85	60.830		
6,400.00	5,999.04	6,001.51	6,000.74	35.42	20.87	46.73	3,649.25	-824.11	3,309.93	3,253.65	56.28	58.810		
6,500.00	6,021.11	6,001.51	6,000.74	35.83	20.87	61.38	3,649.25	-824.11	3,216.45	3,159.81	56.64	56.784		
6,600.00	6,027.00	6,001.51	6,000.74	36.24	20.87	88.06	3,649.25	-824.11	3,119.57	3,062.62	56.94	54.782		
6,700.00	6,027.00	6,001.51	6,000.74	36.68	20.87	88.06	3,649.25	-824.11	3,022.10	2,964.86	57.23	52.803		
6,800.00	6,027.00	6,001.51	6,000.74	37.20	20.87	88.06	3,649.25	-824.11	2,924.80	2,867.25	57.54	50.827		
6,900.00	6,027.00	6,001.51	6,000.74	37.80	20.87	88.06	3,649.25	-824.11	2,827.69	2,769.81	57.88	48.855		
7,000.00	6,027.00	6,001.51	6,000.74	38.47	20.87	88.06	3,649.25	-824.11	2,730.78	2,672.55	58.24	46.889		
7,100.00	6,027.00	6,001.51	6,000.74	39.21	20.87	88.06	3,649.25	-824.11	2,634.11	2,575.49	58.63	44.928		
7,200.00	6,027.00	6,001.51	6,000.74	40.02	20.87	88.06	3,649.25	-824.11	2,537.70	2,478.65	59.05	42.974		
7,300.00	6,027.00	6,001.51	6,000.74	40.89	20.87	88.06	3,649.25	-824.11	2,441.58	2,382.07	59.51	41.028		
7,400.00	6,027.00	6,001.51	6,000.74	41.83	20.87	88.06	3,649.25	-824.11	2,345.78	2,285.77	60.01	39.091		
7,500.00	6,027.00	6,001.51	6,000.74	42.83	20.87	88.06	3,649.25	-824.11	2,250.34	2,189.79	60.55	37.164		
7,600.00	6,027.00	6,001.51	6,000.74	43.88	20.87	88.06	3,649.25	-824.11	2,155.32	2,094.18	61.15	35.248		
7,700.00	6,027.00	6,001.51	6,000.74	44.99	20.87	88.06	3,649.25	-824.11	2,060.78	1,998.98	61.80	33.347		
7,800.00	6,027.00	6,001.51	6,000.74	46.14	20.87	88.06	3,649.25	-824.11	1,966.77	1,904.25	62.52	31.461		
7,900.00	6,027.00	6,001.51	6,000.74	47.33	20.87	88.06	3,649.25	-824.11	1,873.38	1,810.07	63.30	29.593		
8,000.00	6,027.00	6,001.51	6,000.74	48.57	20.87	88.06	3,649.25	-824.11	1,780.71	1,716.53	64.18	27.746		
8,100.00	6,027.00	6,001.51	6,000.74	49.84	20.87	88.06	3,649.25	-824.11	1,688.87	1,623.73	65.15	25.925		
8,200.00	6,027.00	6,001.51	6,000.74	51.15	20.87	88.06	3,649.25	-824.11	1,598.02	1,531.80	66.22	24.132		
8,300.00	6,027.00	6,001.51	6,000.74	52.48	20.87	88.06	3,649.25	-824.11	1,508.32	1,440.91	67.42	22.373		
8,400.00	6,027.00	6,001.51	6,000.74	53.85	20.87	88.06	3,649.25	-824.11	1,420.00	1,351.25	68.75	20.655		
8,500.00	6,027.00	6,001.51	6,000.74	55.24	20.87	88.06	3,649.25	-824.11	1,333.34	1,263.10	70.24	18.983		
8,600.00	6,027.00	6,001.51	6,000.74	56.65	20.87	88.06	3,649.25	-824.11	1,248.66	1,176.77	71.90	17.368		
8,700.00	6,027.00	6,001.51	6,000.74	58.08	20.87	88.06	3,649.25	-824.11	1,166.42	1,092.68	73.74	15.818		
8,800.00	6,027.00	6,001.51	6,000.74	59.54	20.87	88.06	3,649.25	-824.11	1,087.15	1,011.38	75.78	14.347		
8,900.00	6,027.00	6,001.51	6,000.74	61.01	20.87	88.06	3,649.25	-824.11	1,011.57	933.57	78.00	12.968		
9,000.00	6,027.00	6,001.51	6,000.74	62.50	20.87	88.06	3,649.25	-824.11	940.56	860.17	80.39	11.700		
9,100.00	6,027.00	6,001.51	6,000.74	64.01	20.87	88.06	3,649.25	-824.11	875.23	792.36	82.87	10.562		
9,200.00	6,027.00	6,001.51	6,000.74	65.53	20.87	88.06	3,649.25	-824.11	816.94	731.63	85.32	9.576		
9,300.00	6,027.00	6,001.51	6,000.74	67.06	20.87	88.06	3,649.25	-824.11	767.31	679.78	87.53	8.766		
9,400.00	6,027.00	6,001.51	6,000.74	68.61	20.87	88.06	3,649.25	-824.11	728.11	638.87	89.24	8.159		
9,500.00	6,027.00	6,001.51	6,000.74	70.17	20.87	88.06	3,649.25	-824.11	701.08	610.97	90.11	7.780		
9,600.00	6,027.00	6,001.51	6,000.74	71.73	20.87	88.06	3,649.25	-824.11	687.67	597.78	89.89	7.650 SF		
9,643.10	6,027.00	6,000.97	6,000.20	72.41	20.87	88.01	3,649.26	-824.13	686.32	596.91	89.41	7.676 CC, ES		
9,700.00	6,027.00	5,997.63	5,996.86	73.31	20.86	87.73	3,649.36	-824.25	688.66	600.27	88.39	7.791		
9,800.00	6,027.00	5,994.55	5,993.79	74.90	20.85	87.48	3,649.46	-824.36	703.99	618.18	85.81	8.204		
9,900.00	6,027.00	5,991.53	5,990.76	76.50	20.84	87.22	3,649.55	-824.48	732.75	650.31	82.43	8.889		
10,000.00	6,027.00	5,988.54	5,987.78	78.10	20.83	86.98	3,649.64	-824.59	773.45	694.79	78.65	9.833		
10,100.00	6,027.00	5,985.60	5,984.84	79.71	20.82	86.73	3,649.73	-824.70	824.32	749.51	74.82	11.018		
10,200.00	6,027.00	5,982.70	5,981.95	81.33	20.81	86.49	3,649.81	-824.80	883.62	812.45	71.17	12.416		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 12-9 (GYRO) - GYRO SURVEY - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 50-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	5,979.85	5,979.10	82.96	20.80	86.25	3,649.90	-824.91	949.75	881.91	67.85	13.999		
10,400.00	6,027.00	5,977.04	5,976.29	84.59	20.79	86.02	3,649.98	-825.01	1,021.40	956.49	64.91	15.735		
10,500.00	6,027.00	5,974.26	5,973.52	86.23	20.78	85.78	3,650.06	-825.12	1,097.49	1,035.11	62.37	17.595		
10,600.00	6,027.00	5,971.53	5,970.79	87.87	20.77	85.56	3,650.14	-825.22	1,177.15	1,116.95	60.20	19.552		
10,700.00	6,027.00	5,968.83	5,968.09	89.52	20.76	85.33	3,650.22	-825.32	1,259.71	1,201.34	58.37	21.582		
10,800.00	6,027.00	5,966.18	5,965.44	91.17	20.75	85.11	3,650.29	-825.42	1,344.63	1,287.81	56.82	23.664		
10,900.00	6,027.00	5,963.56	5,962.82	92.83	20.74	84.89	3,650.37	-825.52	1,431.50	1,375.98	55.52	25.782		
11,000.00	6,027.00	5,960.97	5,960.24	94.49	20.73	84.68	3,650.44	-825.62	1,519.98	1,465.54	54.44	27.921		
11,100.00	6,027.00	5,958.42	5,957.70	96.16	20.72	84.47	3,650.51	-825.71	1,609.80	1,556.27	53.53	30.072		
11,200.00	6,027.00	5,955.91	5,955.19	97.83	20.71	84.26	3,650.58	-825.81	1,700.76	1,647.98	52.78	32.226		
11,300.00	6,027.00	5,953.43	5,952.71	99.50	20.70	84.05	3,650.65	-825.90	1,792.67	1,740.53	52.15	34.378		
11,400.00	6,027.00	5,950.00	5,949.28	101.18	20.69	83.77	3,650.74	-826.03	1,885.41	1,833.79	51.61	36.528		
11,500.00	6,027.00	5,950.00	5,949.28	102.86	20.69	83.77	3,650.74	-826.03	1,978.85	1,927.65	51.20	38.650		
11,600.00	6,027.00	5,950.00	5,949.28	104.54	20.69	83.77	3,650.74	-826.03	2,072.90	2,022.04	50.86	40.760		
11,700.00	6,027.00	5,950.00	5,949.28	106.23	20.69	83.77	3,650.74	-826.03	2,167.48	2,116.91	50.57	42.858		
11,800.00	6,027.00	5,950.00	5,949.28	107.92	20.69	83.77	3,650.74	-826.03	2,262.54	2,212.19	50.34	44.942		
11,900.00	6,027.00	5,941.64	5,940.93	109.61	20.66	83.07	3,650.96	-826.35	2,357.97	2,307.87	50.10	47.066		
12,000.00	6,027.00	5,939.96	5,939.26	111.31	20.66	82.93	3,651.00	-826.41	2,453.79	2,403.84	49.94	49.135		
12,100.00	6,027.00	5,938.34	5,937.63	113.00	20.65	82.80	3,651.04	-826.47	2,549.92	2,500.10	49.81	51.190		
12,200.00	6,027.00	5,936.75	5,936.05	114.71	20.65	82.67	3,651.08	-826.53	2,646.34	2,596.62	49.71	53.233		
12,300.00	6,027.00	5,935.21	5,934.51	116.41	20.64	82.54	3,651.12	-826.59	2,743.01	2,693.37	49.64	55.263		
12,400.00	6,027.00	5,933.72	5,933.01	118.11	20.64	82.42	3,651.16	-826.65	2,839.91	2,790.33	49.58	57.281		
12,500.00	6,027.00	5,932.26	5,931.56	119.82	20.63	82.30	3,651.19	-826.70	2,937.02	2,887.48	49.54	59.288		
12,600.00	6,027.00	5,930.84	5,930.14	121.53	20.63	82.18	3,651.22	-826.76	3,034.31	2,984.80	49.51	61.284		
12,700.00	6,027.00	5,929.45	5,928.76	123.24	20.62	82.06	3,651.25	-826.81	3,131.78	3,082.28	49.50	63.268		
12,800.00	6,027.00	5,928.11	5,927.41	124.95	20.62	81.95	3,651.28	-826.86	3,229.40	3,179.90	49.50	65.243		
12,900.00	6,027.00	5,926.79	5,926.10	126.66	20.61	81.84	3,651.31	-826.91	3,327.16	3,277.65	49.51	67.208		
13,000.00	6,027.00	5,925.51	5,924.82	128.38	20.61	81.74	3,651.34	-826.96	3,425.04	3,375.52	49.52	69.163		
13,100.00	6,027.00	5,924.26	5,923.57	130.10	20.60	81.64	3,651.37	-827.00	3,523.05	3,473.50	49.54	71.109		
13,200.00	6,027.00	5,923.04	5,922.35	131.82	20.60	81.53	3,651.39	-827.05	3,621.16	3,571.59	49.57	73.045		
13,300.00	6,027.00	5,921.85	5,921.16	133.54	20.59	81.44	3,651.42	-827.09	3,719.38	3,669.77	49.61	74.974		
13,400.00	6,027.00	5,920.69	5,920.00	135.26	20.59	81.34	3,651.44	-827.14	3,817.68	3,768.03	49.65	76.894		
13,500.00	6,027.00	5,919.56	5,918.87	136.98	20.59	81.25	3,651.47	-827.18	3,916.07	3,866.38	49.69	78.805		
13,600.00	6,027.00	5,918.45	5,917.76	138.71	20.58	81.16	3,651.49	-827.22	4,014.54	3,964.80	49.74	80.709		
13,700.00	6,027.00	5,917.37	5,916.68	140.43	20.58	81.07	3,651.51	-827.26	4,113.09	4,063.29	49.79	82.605		
13,800.00	6,027.00	5,916.31	5,915.63	142.16	20.57	80.98	3,651.53	-827.30	4,211.70	4,161.85	49.85	84.494		
13,900.00	6,027.00	5,915.28	5,914.59	143.89	20.57	80.90	3,651.55	-827.34	4,310.37	4,260.47	49.90	86.375		
14,000.00	6,027.00	5,914.26	5,913.58	145.62	20.57	80.81	3,651.57	-827.38	4,409.11	4,359.14	49.96	88.249		
14,100.00	6,027.00	5,913.28	5,912.59	147.35	20.56	80.73	3,651.59	-827.42	4,507.90	4,457.87	50.02	90.115		
14,200.00	6,027.00	5,900.00	5,899.33	149.08	20.52	79.64	3,651.83	-827.92	4,606.77	4,556.74	50.03	92.073		
14,300.00	6,027.00	5,900.00	5,899.33	150.81	20.52	79.64	3,651.83	-827.92	4,705.65	4,655.55	50.10	93.919		
14,400.00	6,027.00	5,900.00	5,899.33	152.54	20.52	79.64	3,651.83	-827.92	4,804.59	4,754.41	50.17	95.759		
14,500.00	6,027.00	5,900.00	5,899.33	154.28	20.52	79.64	3,651.83	-827.92	4,903.56	4,853.31	50.25	97.591		
14,600.00	6,027.00	5,900.00	5,899.33	156.01	20.52	79.64	3,651.83	-827.92	5,002.57	4,952.26	50.32	99.417		
14,700.00	6,027.00	5,900.00	5,899.33	157.75	20.52	79.64	3,651.83	-827.92	5,101.63	5,051.23	50.39	101.236		
14,800.00	6,027.00	5,900.00	5,899.33	159.49	20.52	79.64	3,651.83	-827.92	5,200.72	5,150.25	50.47	103.049		
14,900.00	6,027.00	5,900.00	5,899.33	161.22	20.52	79.64	3,651.83	-827.92	5,299.84	5,249.30	50.54	104.855		
15,000.00	6,027.00	5,900.00	5,899.33	162.96	20.52	79.64	3,651.83	-827.92	5,399.00	5,348.38	50.62	106.655		
15,100.00	6,027.00	5,900.00	5,899.33	164.70	20.52	79.64	3,651.83	-827.92	5,498.18	5,447.49	50.70	108.448		
15,200.00	6,027.00	5,900.00	5,899.33	166.44	20.52	79.64	3,651.83	-827.92	5,597.40	5,546.62	50.78	110.235		
15,300.00	6,027.00	5,909.49	5,908.81	168.18	20.55	80.42	3,651.68	-827.56	5,696.64	5,645.74	50.89	111.932		
15,400.00	6,027.00	5,907.16	5,906.48	169.93	20.54	80.23	3,651.71	-827.65	5,795.91	5,744.95	50.96	113.727		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
SEC 9-T5N-R61W - ABND VERT PRONGHORN 12-9 (GYRO) - GYRO SURVEY - GYRO SURVEY												<b>Offset Well Error:</b>	0.00 usft
Survey Program: 50-GYRO-MWD													
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	5,904.78	5,904.10	171.67	20.53	80.03	3,651.75	-827.74	5,895.21	5,844.17	51.03	115.516	
15,600.00	6,027.00	5,902.34	5,901.67	173.41	20.53	79.83	3,651.79	-827.83	5,994.52	5,943.42	51.10	117.300	
15,700.00	6,027.00	5,899.86	5,899.19	175.15	20.52	79.63	3,651.83	-827.92	6,093.86	6,042.69	51.18	119.078	
15,800.00	6,027.00	5,897.32	5,896.65	176.90	20.51	79.42	3,651.87	-828.02	6,193.22	6,141.98	51.25	120.851	
15,900.00	6,027.00	5,894.73	5,894.06	178.64	20.50	79.21	3,651.92	-828.11	6,292.60	6,241.29	51.32	122.618	
16,000.00	6,027.00	5,892.08	5,891.41	180.39	20.49	79.00	3,651.96	-828.21	6,392.00	6,340.61	51.39	124.381	
16,100.00	6,027.00	5,889.37	5,888.70	182.13	20.48	78.77	3,652.01	-828.31	6,491.42	6,439.96	51.46	126.138	
16,200.00	6,027.00	5,886.59	5,885.93	183.88	20.47	78.55	3,652.05	-828.41	6,590.85	6,539.32	51.54	127.889	
16,300.00	6,027.00	5,883.76	5,883.10	185.63	20.46	78.32	3,652.10	-828.51	6,690.30	6,638.70	51.61	129.636	
16,400.00	6,027.00	5,880.86	5,880.20	187.38	20.45	78.08	3,652.15	-828.61	6,789.77	6,738.09	51.68	131.378	
16,500.00	6,027.00	5,877.89	5,877.23	189.12	20.44	77.84	3,652.21	-828.72	6,889.25	6,837.49	51.75	133.114	
16,600.00	6,027.00	5,874.85	5,874.20	190.87	20.43	77.60	3,652.26	-828.83	6,988.74	6,936.91	51.83	134.846	
16,700.00	6,027.00	5,871.73	5,871.09	192.62	20.42	77.35	3,652.32	-828.93	7,088.25	7,036.35	51.90	136.572	
16,795.97	6,027.00	5,868.67	5,868.03	194.30	20.41	77.10	3,652.38	-829.04	7,183.76	7,131.79	51.97	138.224	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 12-9 (GYRO) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	97.00	97.00	0.27	2.32	-13.13	3,675.93	-857.62	3,774.65	3,772.05	2.59	1,455.479		
200.00	200.00	197.00	197.00	0.63	4.42	-13.13	3,675.93	-857.62	3,774.65	3,769.60	5.05	747.556		
300.00	300.00	297.00	297.00	0.99	6.46	-13.13	3,675.93	-857.62	3,774.65	3,767.20	7.45	506.727		
400.00	400.00	397.00	397.00	1.34	8.49	-13.13	3,675.93	-857.62	3,774.65	3,764.81	9.83	383.832		
500.00	500.00	497.00	497.00	1.70	10.51	-13.13	3,675.93	-857.62	3,774.65	3,762.43	12.21	309.065		
600.00	600.00	597.00	597.00	2.06	12.53	-13.13	3,675.93	-857.62	3,774.65	3,760.06	14.59	258.732		
700.00	700.00	697.00	697.00	2.42	14.54	-13.13	3,675.93	-857.62	3,774.65	3,757.68	16.96	222.521		
800.00	800.00	797.00	797.00	2.78	16.56	-13.13	3,675.93	-857.62	3,774.65	3,755.31	19.34	195.213		
900.00	900.00	897.00	897.00	3.14	18.57	-13.13	3,675.93	-857.62	3,774.65	3,752.94	21.71	173.881		
1,000.00	999.98	996.98	996.98	3.49	20.58	76.16	3,675.93	-857.62	3,774.23	3,750.16	24.07	156.793		
1,100.00	1,099.84	1,096.84	1,096.84	3.83	22.59	76.26	3,675.93	-857.62	3,772.98	3,746.55	26.43	142.764		
1,200.00	1,199.45	1,196.45	1,196.45	4.19	24.60	76.43	3,675.93	-857.62	3,770.91	3,742.13	28.79	130.992		
1,300.00	1,298.70	1,295.70	1,295.70	4.55	26.60	76.66	3,675.93	-857.62	3,768.06	3,736.91	31.15	120.964		
1,400.00	1,397.47	1,394.47	1,394.47	4.94	28.58	76.96	3,675.93	-857.62	3,764.44	3,730.93	33.52	112.307		
1,500.00	1,495.62	1,492.62	1,492.62	5.34	30.56	77.32	3,675.93	-857.62	3,760.12	3,724.22	35.90	104.746		
1,600.00	1,593.06	1,590.06	1,590.06	5.78	32.52	77.75	3,675.93	-857.62	3,755.15	3,716.86	38.29	98.075		
1,700.00	1,689.64	1,686.64	1,686.64	6.24	34.46	78.23	3,675.93	-857.62	3,749.58	3,708.88	40.70	92.135		
1,800.00	1,785.27	1,782.27	1,782.27	6.75	36.38	78.76	3,675.93	-857.62	3,743.49	3,700.37	43.13	86.805		
1,900.00	1,880.44	1,877.44	1,877.44	7.30	38.30	79.20	3,675.93	-857.62	3,737.34	3,691.76	45.58	82.000		
2,000.00	1,975.60	1,972.60	1,972.60	7.86	40.21	79.64	3,675.93	-857.62	3,731.42	3,683.37	48.05	77.659		
2,100.00	2,070.77	2,067.77	2,067.77	8.43	42.13	80.09	3,675.93	-857.62	3,725.75	3,675.22	50.54	73.724		
2,200.00	2,165.93	2,162.93	2,162.93	9.02	44.04	80.53	3,675.93	-857.62	3,720.33	3,667.29	53.04	70.145		
2,300.00	2,261.10	2,258.10	2,258.10	9.62	45.96	80.98	3,675.93	-857.62	3,715.15	3,659.60	55.55	66.880		
2,400.00	2,356.26	2,353.26	2,353.26	10.23	47.87	81.42	3,675.93	-857.62	3,710.22	3,652.15	58.07	63.892		
2,500.00	2,451.43	2,448.43	2,448.43	10.84	49.78	81.87	3,675.93	-857.62	3,705.53	3,644.93	60.60	61.149		
2,600.00	2,546.59	2,543.59	2,543.59	11.46	51.70	82.32	3,675.93	-857.62	3,701.10	3,637.96	63.13	58.623		
2,700.00	2,641.76	2,638.76	2,638.76	12.09	53.61	82.77	3,675.93	-857.62	3,696.91	3,631.24	65.67	56.292		
2,800.00	2,736.92	2,733.92	2,733.92	12.72	55.53	83.22	3,675.93	-857.62	3,692.98	3,624.76	68.22	54.134		
2,900.00	2,832.09	2,829.09	2,829.09	13.35	57.44	83.67	3,675.93	-857.62	3,689.29	3,618.53	70.77	52.132		
3,000.00	2,927.25	2,924.25	2,924.25	13.99	59.35	84.12	3,675.93	-857.62	3,685.86	3,612.54	73.32	50.271		
3,100.00	3,022.42	3,019.42	3,019.42	14.63	61.27	84.57	3,675.93	-857.62	3,682.69	3,606.81	75.88	48.536		
3,200.00	3,117.58	3,114.58	3,114.58	15.27	63.18	85.03	3,675.93	-857.62	3,679.76	3,601.33	78.43	46.915		
3,300.00	3,212.75	3,209.75	3,209.75	15.91	65.10	85.48	3,675.93	-857.62	3,677.09	3,596.10	80.99	45.399		
3,400.00	3,307.91	3,304.91	3,304.91	16.56	67.01	85.94	3,675.93	-857.62	3,674.68	3,591.12	83.56	43.978		
3,500.00	3,403.08	3,400.08	3,400.08	17.20	68.92	86.39	3,675.93	-857.62	3,672.52	3,586.40	86.12	42.644		
3,600.00	3,498.24	3,495.24	3,495.24	17.85	70.84	86.85	3,675.93	-857.62	3,670.61	3,581.93	88.68	41.390		
3,700.00	3,593.41	3,590.41	3,590.41	18.50	72.75	87.30	3,675.93	-857.62	3,668.97	3,577.72	91.25	40.208		
3,800.00	3,688.57	3,685.57	3,685.57	19.15	74.67	87.76	3,675.93	-857.62	3,667.58	3,573.76	93.82	39.093		
3,900.00	3,783.74	3,780.74	3,780.74	19.81	76.58	88.22	3,675.93	-857.62	3,666.44	3,570.06	96.38	38.040		
4,000.00	3,878.90	3,875.90	3,875.90	20.46	78.49	88.67	3,675.93	-857.62	3,665.57	3,566.61	98.95	37.044		
4,100.00	3,974.07	3,971.07	3,971.07	21.11	80.41	89.13	3,675.93	-857.62	3,664.95	3,563.43	101.52	36.101		
4,200.00	4,069.23	4,066.23	4,066.23	21.77	82.32	89.59	3,675.93	-857.62	3,664.58	3,560.50	104.09	35.207		
4,290.64	4,155.49	4,152.49	4,152.49	22.36	84.06	90.00	3,675.93	-857.62	3,664.48	3,558.06	106.41	34.436		
4,300.00	4,164.40	4,161.40	4,161.40	22.42	84.23	90.04	3,675.93	-857.62	3,664.48	3,557.82	106.65	34.358		
4,400.00	4,259.56	4,256.56	4,256.56	23.08	86.15	90.50	3,675.93	-857.62	3,664.63	3,555.41	109.22	33.552		
4,500.00	4,354.73	4,351.73	4,351.73	23.74	88.06	90.96	3,675.93	-857.62	3,665.04	3,553.25	111.79	32.785		
4,600.00	4,449.89	4,446.89	4,446.89	24.39	89.98	91.41	3,675.93	-857.62	3,665.71	3,551.36	114.36	32.055		
4,700.00	4,545.06	4,542.06	4,542.06	25.05	91.89	91.87	3,675.93	-857.62	3,666.64	3,549.71	116.92	31.360		
4,800.00	4,640.22	4,637.22	4,637.22	25.71	93.80	92.33	3,675.93	-857.62	3,667.82	3,548.33	119.49	30.697		
4,900.00	4,735.39	4,732.39	4,732.39	26.37	95.72	92.78	3,675.93	-857.62	3,669.26	3,547.21	122.05	30.064		
5,000.00	4,830.55	4,827.55	4,827.55	27.03	97.63	93.24	3,675.93	-857.62	3,670.95	3,546.34	124.61	29.459		
5,100.00	4,925.72	4,922.72	4,922.72	27.69	99.54	93.69	3,675.93	-857.62	3,672.90	3,545.73	127.17	28.881		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
5,200.00	5,020.88	5,017.88	5,017.88	28.35	101.46	94.15	3,675.93	-857.62	3,675.11	3,545.37	129.74	28.328		
5,300.00	5,116.05	5,113.05	5,113.05	29.01	103.37	94.60	3,675.93	-857.62	3,677.57	3,545.28	132.29	27.798		
5,400.00	5,211.21	5,208.21	5,208.21	29.67	105.29	95.06	3,675.93	-857.62	3,680.29	3,545.44	134.85	27.291		
5,500.00	5,306.38	5,303.38	5,303.38	30.33	107.20	95.51	3,675.93	-857.62	3,683.26	3,545.85	137.41	26.805		
5,600.00	5,401.54	5,398.54	5,398.54	30.99	109.11	95.96	3,675.93	-857.62	3,686.49	3,546.52	139.96	26.339		
5,700.00	5,496.71	5,493.71	5,493.71	31.65	111.03	92.27	3,675.93	-857.62	3,689.81	3,547.29	142.52	25.891		
5,800.00	5,591.13	5,588.13	5,588.13	32.30	112.93	65.83	3,675.93	-857.62	3,682.59	3,537.52	145.06	25.386		
5,900.00	5,682.22	5,679.22	5,679.22	32.92	114.76	49.83	3,675.93	-857.62	3,658.61	3,511.08	147.53	24.798		
6,000.00	5,767.23	5,764.23	5,764.23	33.50	116.47	41.44	3,675.93	-857.62	3,618.64	3,468.78	149.86	24.147		
6,100.00	5,843.56	5,840.56	5,840.56	34.04	118.00	37.54	3,675.93	-857.62	3,563.90	3,411.92	151.98	23.450		
6,200.00	5,908.90	5,905.90	5,905.90	34.53	119.32	36.73	3,675.93	-857.62	3,496.04	3,342.22	153.82	22.728		
6,300.00	5,961.25	5,958.25	5,958.25	34.99	120.37	38.91	3,675.93	-857.62	3,417.10	3,261.75	155.36	21.995		
6,400.00	5,999.04	5,996.04	5,996.04	35.42	121.13	45.44	3,675.93	-857.62	3,329.42	3,172.88	156.53	21.270		
6,500.00	6,021.11	6,018.11	6,018.11	35.83	121.57	61.14	3,675.93	-857.62	3,235.58	3,078.26	157.33	20.566		
6,600.00	6,027.00	6,024.00	6,024.00	36.24	121.69	90.00	3,675.93	-857.62	3,138.38	2,980.65	157.73	19.897		
6,700.00	6,027.00	6,024.00	6,024.00	36.68	121.69	90.00	3,675.93	-857.62	3,040.64	2,882.63	158.01	19.243		
6,800.00	6,027.00	6,024.00	6,024.00	37.20	121.69	90.00	3,675.93	-857.62	2,943.04	2,784.74	158.31	18.591		
6,900.00	6,027.00	6,024.00	6,024.00	37.80	121.69	90.00	3,675.93	-857.62	2,845.62	2,686.99	158.62	17.939		
7,000.00	6,027.00	6,024.00	6,024.00	38.47	121.69	90.00	3,675.93	-857.62	2,748.38	2,589.41	158.97	17.289		
7,100.00	6,027.00	6,024.00	6,024.00	39.21	121.69	90.00	3,675.93	-857.62	2,651.34	2,492.00	159.34	16.640		
7,200.00	6,027.00	6,024.00	6,024.00	40.02	121.69	90.00	3,675.93	-857.62	2,554.54	2,394.80	159.74	15.992		
7,300.00	6,027.00	6,024.00	6,024.00	40.89	121.69	90.00	3,675.93	-857.62	2,457.98	2,297.81	160.17	15.346		
7,400.00	6,027.00	6,024.00	6,024.00	41.83	121.69	90.00	3,675.93	-857.62	2,361.72	2,201.07	160.65	14.701		
7,500.00	6,027.00	6,024.00	6,024.00	42.83	121.69	90.00	3,675.93	-857.62	2,265.78	2,104.61	161.17	14.059		
7,600.00	6,027.00	6,024.00	6,024.00	43.88	121.69	90.00	3,675.93	-857.62	2,170.21	2,008.47	161.73	13.419		
7,700.00	6,027.00	6,024.00	6,024.00	44.99	121.69	90.00	3,675.93	-857.62	2,075.05	1,912.70	162.35	12.781		
7,800.00	6,027.00	6,024.00	6,024.00	46.14	121.69	90.00	3,675.93	-857.62	1,980.37	1,817.34	163.03	12.147		
7,900.00	6,027.00	6,024.00	6,024.00	47.33	121.69	90.00	3,675.93	-857.62	1,886.24	1,722.45	163.79	11.516		
8,000.00	6,027.00	6,024.00	6,024.00	48.57	121.69	90.00	3,675.93	-857.62	1,792.75	1,628.13	164.62	10.890		
8,100.00	6,027.00	6,024.00	6,024.00	49.84	121.69	90.00	3,675.93	-857.62	1,699.99	1,534.45	165.54	10.269		
8,200.00	6,027.00	6,024.00	6,024.00	51.15	121.69	90.00	3,675.93	-857.62	1,608.11	1,441.54	166.57	9.654		
8,300.00	6,027.00	6,024.00	6,024.00	52.48	121.69	90.00	3,675.93	-857.62	1,517.25	1,349.53	167.72	9.046		
8,400.00	6,027.00	6,024.00	6,024.00	53.85	121.69	90.00	3,675.93	-857.62	1,427.61	1,258.61	169.00	8.447		
8,500.00	6,027.00	6,024.00	6,024.00	55.24	121.69	90.00	3,675.93	-857.62	1,339.45	1,169.00	170.44	7.859		
8,600.00	6,027.00	6,024.00	6,024.00	56.65	121.69	90.00	3,675.93	-857.62	1,253.06	1,081.00	172.06	7.283		
8,700.00	6,027.00	6,024.00	6,024.00	58.08	121.69	90.00	3,675.93	-857.62	1,168.84	994.98	173.86	6.723		
8,800.00	6,027.00	6,024.00	6,024.00	59.54	121.69	90.00	3,675.93	-857.62	1,087.30	911.43	175.88	6.182		
8,900.00	6,027.00	6,024.00	6,024.00	61.01	121.69	90.00	3,675.93	-857.62	1,009.09	830.99	178.11	5.666		
9,000.00	6,027.00	6,024.00	6,024.00	62.50	121.69	90.00	3,675.93	-857.62	935.04	754.51	180.53	5.179		
9,100.00	6,027.00	6,024.00	6,024.00	64.01	121.69	90.00	3,675.93	-857.62	866.22	683.11	183.11	4.730		
9,200.00	6,027.00	6,024.00	6,024.00	65.53	121.69	90.00	3,675.93	-857.62	803.97	618.23	185.74	4.328		
9,300.00	6,027.00	6,024.00	6,024.00	67.06	121.69	90.00	3,675.93	-857.62	749.94	561.71	188.23	3.984		
9,400.00	6,027.00	6,024.00	6,024.00	68.61	121.69	90.00	3,675.93	-857.62	706.01	515.72	190.28	3.710		
9,500.00	6,027.00	6,024.00	6,024.00	70.17	121.69	90.00	3,675.93	-857.62	674.15	482.61	191.55	3.520		
9,600.00	6,027.00	6,024.00	6,024.00	71.73	121.69	90.00	3,675.93	-857.62	656.14	464.47	191.67	3.423		
9,669.82	6,027.00	6,024.00	6,024.00	72.84	121.69	90.00	3,675.93	-857.62	652.41	461.46	190.95	3.417 CC, ES, SF		
9,700.00	6,027.00	6,024.00	6,024.00	73.31	121.69	90.00	3,675.93	-857.62	653.11	462.68	190.43	3.430		
9,800.00	6,027.00	6,024.00	6,024.00	74.90	121.69	90.00	3,675.93	-857.62	665.27	477.36	187.92	3.540		
9,900.00	6,027.00	6,024.00	6,024.00	76.50	121.69	90.00	3,675.93	-857.62	691.83	507.39	184.43	3.751		
10,000.00	6,027.00	6,024.00	6,024.00	78.10	121.69	90.00	3,675.93	-857.62	731.21	550.77	180.44	4.052		
10,100.00	6,027.00	6,024.00	6,024.00	79.71	121.69	90.00	3,675.93	-857.62	781.47	605.13	176.34	4.432		
10,200.00	6,027.00	6,024.00	6,024.00	81.33	121.69	90.00	3,675.93	-857.62	840.68	668.22	172.45	4.875		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 12-9 (GYRO) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
10,300.00	6,027.00	6,024.00	6,024.00	82.96	121.69	90.00	3,675.93	-857.62	907.07	738.13	168.93	5.369		
10,400.00	6,027.00	6,024.00	6,024.00	84.59	121.69	90.00	3,675.93	-857.62	979.19	813.33	165.85	5.904		
10,500.00	6,027.00	6,024.00	6,024.00	86.23	121.69	90.00	3,675.93	-857.62	1,055.86	892.65	163.21	6.469		
10,600.00	6,027.00	6,024.00	6,024.00	87.87	121.69	90.00	3,675.93	-857.62	1,136.17	975.19	160.98	7.058		
10,700.00	6,027.00	6,024.00	6,024.00	89.52	121.69	90.00	3,675.93	-857.62	1,219.39	1,060.28	159.11	7.664		
10,800.00	6,027.00	6,024.00	6,024.00	91.17	121.69	90.00	3,675.93	-857.62	1,304.97	1,147.42	157.55	8.283		
10,900.00	6,027.00	6,024.00	6,024.00	92.83	121.69	90.00	3,675.93	-857.62	1,392.48	1,236.22	156.26	8.911		
11,000.00	6,027.00	6,024.00	6,024.00	94.49	121.69	90.00	3,675.93	-857.62	1,481.56	1,326.37	155.19	9.547		
11,100.00	6,027.00	6,024.00	6,024.00	96.16	121.69	90.00	3,675.93	-857.62	1,571.96	1,417.65	154.31	10.187		
11,200.00	6,027.00	6,024.00	6,024.00	97.83	121.69	90.00	3,675.93	-857.62	1,663.46	1,509.88	153.58	10.831		
11,300.00	6,027.00	6,024.00	6,024.00	99.50	121.69	90.00	3,675.93	-857.62	1,755.89	1,602.90	152.98	11.478		
11,400.00	6,027.00	6,024.00	6,024.00	101.18	121.69	90.00	3,675.93	-857.62	1,849.10	1,696.61	152.49	12.126		
11,500.00	6,027.00	6,024.00	6,024.00	102.86	121.69	90.00	3,675.93	-857.62	1,942.99	1,790.90	152.09	12.775		
11,600.00	6,027.00	6,024.00	6,024.00	104.54	121.69	90.00	3,675.93	-857.62	2,037.46	1,885.70	151.76	13.426		
11,700.00	6,027.00	6,024.00	6,024.00	106.23	121.69	90.00	3,675.93	-857.62	2,132.43	1,980.94	151.49	14.076		
11,800.00	6,027.00	6,024.00	6,024.00	107.92	121.69	90.00	3,675.93	-857.62	2,227.85	2,076.57	151.28	14.727		
11,900.00	6,027.00	6,024.00	6,024.00	109.61	121.69	90.00	3,675.93	-857.62	2,323.65	2,172.55	151.10	15.378		
12,000.00	6,027.00	6,024.00	6,024.00	111.31	121.69	90.00	3,675.93	-857.62	2,419.79	2,268.82	150.97	16.029		
12,100.00	6,027.00	6,024.00	6,024.00	113.00	121.69	90.00	3,675.93	-857.62	2,516.23	2,365.37	150.86	16.679		
12,200.00	6,027.00	6,024.00	6,024.00	114.71	121.69	90.00	3,675.93	-857.62	2,612.94	2,462.16	150.78	17.329		
12,300.00	6,027.00	6,024.00	6,024.00	116.41	121.69	90.00	3,675.93	-857.62	2,709.89	2,559.16	150.72	17.979		
12,400.00	6,027.00	6,024.00	6,024.00	118.11	121.69	90.00	3,675.93	-857.62	2,807.05	2,656.37	150.68	18.629		
12,500.00	6,027.00	6,024.00	6,024.00	119.82	121.69	90.00	3,675.93	-857.62	2,904.40	2,753.74	150.66	19.278		
12,600.00	6,027.00	6,024.00	6,024.00	121.53	121.69	90.00	3,675.93	-857.62	3,001.93	2,851.28	150.65	19.926		
12,700.00	6,027.00	6,024.00	6,024.00	123.24	121.69	90.00	3,675.93	-857.62	3,099.62	2,948.97	150.65	20.575		
12,800.00	6,027.00	6,024.00	6,024.00	124.95	121.69	90.00	3,675.93	-857.62	3,197.45	3,046.78	150.66	21.222		
12,900.00	6,027.00	6,024.00	6,024.00	126.66	121.69	90.00	3,675.93	-857.62	3,295.41	3,144.72	150.68	21.870		
13,000.00	6,027.00	6,024.00	6,024.00	128.38	121.69	90.00	3,675.93	-857.62	3,393.49	3,242.77	150.71	22.516		
13,100.00	6,027.00	6,024.00	6,024.00	130.10	121.69	90.00	3,675.93	-857.62	3,491.67	3,340.93	150.75	23.163		
13,200.00	6,027.00	6,024.00	6,024.00	131.82	121.69	90.00	3,675.93	-857.62	3,589.96	3,439.17	150.79	23.808		
13,300.00	6,027.00	6,024.00	6,024.00	133.54	121.69	90.00	3,675.93	-857.62	3,688.34	3,537.51	150.83	24.453		
13,400.00	6,027.00	6,024.00	6,024.00	135.26	121.69	90.00	3,675.93	-857.62	3,786.81	3,635.93	150.88	25.098		
13,500.00	6,027.00	6,024.00	6,024.00	136.98	121.69	90.00	3,675.93	-857.62	3,885.35	3,734.42	150.93	25.742		
13,600.00	6,027.00	6,024.00	6,024.00	138.71	121.69	90.00	3,675.93	-857.62	3,983.96	3,832.97	150.99	26.386		
13,700.00	6,027.00	6,024.00	6,024.00	140.43	121.69	90.00	3,675.93	-857.62	4,082.65	3,931.60	151.05	27.029		
13,800.00	6,027.00	6,024.00	6,024.00	142.16	121.69	90.00	3,675.93	-857.62	4,181.39	4,030.28	151.11	27.671		
13,900.00	6,027.00	6,024.00	6,024.00	143.89	121.69	90.00	3,675.93	-857.62	4,280.20	4,129.02	151.17	28.313		
14,000.00	6,027.00	6,024.00	6,024.00	145.62	121.69	90.00	3,675.93	-857.62	4,379.05	4,227.82	151.24	28.955		
14,100.00	6,027.00	6,024.00	6,024.00	147.35	121.69	90.00	3,675.93	-857.62	4,477.96	4,326.66	151.31	29.595		
14,200.00	6,027.00	6,024.00	6,024.00	149.08	121.69	90.00	3,675.93	-857.62	4,576.92	4,425.54	151.37	30.236		
14,300.00	6,027.00	6,024.00	6,024.00	150.81	121.69	90.00	3,675.93	-857.62	4,675.92	4,524.47	151.45	30.875		
14,400.00	6,027.00	6,024.00	6,024.00	152.54	121.69	90.00	3,675.93	-857.62	4,774.96	4,623.44	151.52	31.514		
14,500.00	6,027.00	6,024.00	6,024.00	154.28	121.69	90.00	3,675.93	-857.62	4,874.04	4,722.45	151.59	32.153		
14,600.00	6,027.00	6,024.00	6,024.00	156.01	121.69	90.00	3,675.93	-857.62	4,973.16	4,821.50	151.66	32.791		
14,700.00	6,027.00	6,024.00	6,024.00	157.75	121.69	90.00	3,675.93	-857.62	5,072.31	4,920.57	151.74	33.428		
14,800.00	6,027.00	6,024.00	6,024.00	159.49	121.69	90.00	3,675.93	-857.62	5,171.50	5,019.68	151.81	34.065		
14,900.00	6,027.00	6,024.00	6,024.00	161.22	121.69	90.00	3,675.93	-857.62	5,270.72	5,118.82	151.89	34.701		
15,000.00	6,027.00	6,024.00	6,024.00	162.96	121.69	90.00	3,675.93	-857.62	5,369.96	5,217.99	151.97	35.336		
15,100.00	6,027.00	6,024.00	6,024.00	164.70	121.69	90.00	3,675.93	-857.62	5,469.23	5,317.19	152.05	35.971		
15,200.00	6,027.00	6,024.00	6,024.00	166.44	121.69	90.00	3,675.93	-857.62	5,568.53	5,416.41	152.12	36.605		
15,300.00	6,027.00	6,024.00	6,024.00	168.18	121.69	90.00	3,675.93	-857.62	5,667.86	5,515.65	152.20	37.239		
15,400.00	6,027.00	6,024.00	6,024.00	169.93	121.69	90.00	3,675.93	-857.62	5,767.20	5,614.92	152.28	37.871		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 9-T5N-R61W - ABND VERT PRONGHORN 12-9 (GYRO) - OWB - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-INC												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,500.00	6,027.00	6,024.00	6,024.00	171.67	121.69	90.00	3,675.93	-857.62	5,866.57	5,714.21	152.36	38.504	
15,600.00	6,027.00	6,024.00	6,024.00	173.41	121.69	90.00	3,675.93	-857.62	5,965.96	5,813.52	152.44	39.135	
15,700.00	6,027.00	6,024.00	6,024.00	175.15	121.69	90.00	3,675.93	-857.62	6,065.37	5,912.85	152.53	39.766	
15,800.00	6,027.00	6,024.00	6,024.00	176.90	121.69	90.00	3,675.93	-857.62	6,164.80	6,012.19	152.61	40.397	
15,900.00	6,027.00	6,024.00	6,024.00	178.64	121.69	90.00	3,675.93	-857.62	6,264.25	6,111.56	152.69	41.026	
16,000.00	6,027.00	6,024.00	6,024.00	180.39	121.69	90.00	3,675.93	-857.62	6,363.71	6,210.94	152.77	41.655	
16,100.00	6,027.00	6,024.00	6,024.00	182.13	121.69	90.00	3,675.93	-857.62	6,463.19	6,310.34	152.85	42.284	
16,200.00	6,027.00	6,024.00	6,024.00	183.88	121.69	90.00	3,675.93	-857.62	6,562.69	6,409.75	152.94	42.911	
16,300.00	6,027.00	6,024.00	6,024.00	185.63	121.69	90.00	3,675.93	-857.62	6,662.20	6,509.18	153.02	43.538	
16,400.00	6,027.00	6,024.00	6,024.00	187.38	121.69	90.00	3,675.93	-857.62	6,761.73	6,608.63	153.10	44.165	
16,500.00	6,027.00	6,024.00	6,024.00	189.12	121.69	90.00	3,675.93	-857.62	6,861.27	6,708.08	153.19	44.790	
16,600.00	6,027.00	6,024.00	6,024.00	190.87	121.69	90.00	3,675.93	-857.62	6,960.82	6,807.55	153.27	45.415	
16,700.00	6,027.00	6,024.00	6,024.00	192.62	121.69	90.00	3,675.93	-857.62	7,060.39	6,907.03	153.36	46.039	
16,795.97	6,027.00	6,024.00	6,024.00	194.30	121.69	90.00	3,675.93	-857.62	7,155.95	7,002.52	153.44	46.638	

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 31-9 (GYRO) - GYRO SURVEY - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	110.00	110.00	0.27	0.19	19.89	5,001.85	1,810.06	5,319.30	5,318.84	0.46	N/A		
200.00	200.00	215.44	215.44	0.63	0.56	19.90	5,001.42	1,810.43	5,319.04	5,317.85	1.19	4,465.423		
300.00	300.00	338.17	338.17	0.99	0.99	19.91	5,000.66	1,810.74	5,318.55	5,316.57	1.98	2,687.517		
400.00	400.00	471.96	471.94	1.34	1.47	19.91	4,999.22	1,810.35	5,317.43	5,314.63	2.81	1,895.321		
500.00	500.00	568.69	568.67	1.70	1.81	19.91	4,997.92	1,809.90	5,316.01	5,312.51	3.50	1,517.753		
600.00	600.00	678.47	678.44	2.06	2.19	19.90	4,996.59	1,809.21	5,314.66	5,310.42	4.25	1,251.807		
700.00	700.00	778.85	778.81	2.42	2.55	19.90	4,995.18	1,808.52	5,313.11	5,308.15	4.96	1,072.084		
800.00	800.00	869.46	869.40	2.78	2.87	19.90	4,994.02	1,807.88	5,311.67	5,306.03	5.63	943.137		
900.00	900.00	967.35	967.29	3.14	3.21	19.90	4,992.85	1,807.40	5,310.37	5,304.04	6.33	838.449		
1,000.00	999.98	1,060.63	1,060.56	3.49	3.53	109.18	4,991.80	1,806.82	5,309.67	5,302.66	7.01	757.337		
1,004.45	1,004.43	1,064.59	1,064.52	3.50	3.55	109.18	4,991.76	1,806.79	5,309.67	5,302.63	7.04	754.185		
1,100.00	1,099.84	1,152.72	1,152.64	3.83	3.86	109.22	4,991.00	1,806.07	5,310.30	5,302.62	7.68	691.420		
1,200.00	1,199.45	1,253.41	1,253.32	4.19	4.21	109.27	4,990.20	1,805.29	5,312.17	5,303.78	8.39	633.379		
1,300.00	1,298.70	1,353.76	1,353.67	4.55	4.56	109.33	4,989.41	1,804.27	5,315.13	5,306.03	9.10	583.881		
1,400.00	1,397.47	1,454.60	1,454.50	4.94	4.91	109.40	4,988.68	1,803.14	5,319.30	5,309.46	9.84	540.823		
1,500.00	1,495.62	1,555.92	1,555.81	5.34	5.26	109.49	4,987.85	1,802.02	5,324.58	5,314.00	10.59	502.834		
1,600.00	1,593.06	1,637.52	1,637.41	5.78	5.55	109.54	4,987.19	1,801.24	5,331.17	5,319.87	11.30	471.857		
1,700.00	1,689.64	1,700.00	1,699.88	6.24	5.77	109.55	4,986.91	1,800.88	5,339.49	5,327.52	11.97	446.073		
1,800.00	1,785.27	1,776.24	1,776.12	6.75	6.03	109.59	4,986.89	1,800.66	5,349.57	5,336.85	12.72	420.444		
1,900.00	1,880.44	1,854.26	1,854.14	7.30	6.30	109.83	4,987.23	1,800.50	5,360.72	5,347.21	13.51	396.821		
2,000.00	1,975.60	1,930.71	1,930.59	7.86	6.57	110.06	4,987.81	1,800.25	5,372.29	5,357.99	14.31	375.553		
2,100.00	2,070.77	2,000.00	1,999.87	8.43	6.81	110.27	4,988.64	1,800.13	5,384.43	5,369.34	15.09	356.865		
2,200.00	2,165.93	2,096.09	2,095.95	9.02	7.14	110.56	4,990.05	1,799.91	5,396.94	5,380.96	15.98	337.812		
2,300.00	2,261.10	2,172.94	2,172.79	9.62	7.41	110.79	4,991.35	1,799.61	5,409.74	5,392.93	16.80	321.924		
2,400.00	2,356.26	2,263.59	2,263.42	10.23	7.73	111.06	4,993.15	1,799.28	5,422.93	5,405.24	17.69	306.587		
2,500.00	2,451.43	2,403.69	2,403.50	10.84	8.22	111.47	4,995.44	1,798.76	5,436.00	5,417.24	18.75	289.856		
2,600.00	2,546.59	2,496.60	2,496.40	11.46	8.55	111.74	4,996.59	1,798.17	5,448.71	5,429.05	19.66	277.203		
2,700.00	2,641.76	2,582.83	2,582.63	12.09	8.85	111.99	4,997.73	1,797.64	5,461.64	5,441.11	20.54	265.942		
2,800.00	2,736.92	2,671.85	2,671.63	12.72	9.16	112.25	4,999.00	1,797.22	5,474.85	5,453.42	21.43	255.477		
2,900.00	2,832.09	2,765.38	2,765.15	13.35	9.49	112.52	5,000.32	1,796.97	5,488.28	5,465.94	22.34	245.662		
3,000.00	2,927.25	2,859.37	2,859.13	13.99	9.82	112.80	5,001.59	1,796.89	5,501.85	5,478.59	23.25	236.594		
3,100.00	3,022.42	2,939.15	2,938.91	14.63	10.09	113.03	5,002.64	1,797.05	5,515.65	5,491.54	24.12	228.704		
3,200.00	3,117.58	3,000.00	2,999.75	15.27	10.31	113.21	5,003.51	1,797.60	5,530.01	5,505.10	24.91	221.999		
3,300.00	3,212.75	3,079.18	3,078.90	15.91	10.58	113.45	5,004.85	1,798.70	5,544.92	5,519.15	25.77	215.171		
3,400.00	3,307.91	3,147.15	3,146.85	16.56	10.82	113.66	5,006.29	1,799.81	5,560.41	5,533.82	26.59	209.137		
3,500.00	3,403.08	3,217.04	3,216.71	17.20	11.07	113.86	5,008.08	1,801.09	5,576.51	5,549.10	27.41	203.442		
3,600.00	3,498.24	3,300.00	3,299.62	17.85	11.36	114.11	5,010.40	1,802.82	5,593.04	5,564.76	28.28	197.759		
3,700.00	3,593.41	3,375.73	3,375.30	18.50	11.63	114.34	5,012.64	1,804.60	5,609.98	5,580.85	29.13	192.616		
3,800.00	3,688.57	3,453.10	3,452.60	19.15	11.90	114.57	5,015.08	1,806.63	5,627.35	5,597.37	29.97	187.746		
3,900.00	3,783.74	3,547.03	3,546.44	19.81	12.24	114.85	5,018.20	1,809.29	5,645.09	5,614.20	30.88	182.788		
4,000.00	3,878.90	3,643.82	3,643.15	20.46	12.58	115.14	5,021.31	1,811.83	5,662.78	5,630.98	31.80	178.056		
4,100.00	3,974.07	3,732.41	3,731.66	21.11	12.90	115.40	5,024.24	1,814.35	5,680.79	5,648.10	32.69	173.772		
4,200.00	4,069.23	3,850.07	3,849.21	21.77	13.32	115.74	5,027.97	1,817.46	5,698.75	5,665.06	33.69	169.154		
4,300.00	4,164.40	4,009.25	4,008.29	22.42	13.88	116.21	5,031.86	1,821.44	5,716.21	5,681.37	34.85	164.044		
4,400.00	4,259.56	4,083.93	4,082.94	23.08	14.14	116.42	5,033.44	1,823.10	5,733.37	5,697.70	35.68	160.699		
4,500.00	4,354.73	4,209.79	4,208.74	23.74	14.58	116.78	5,035.92	1,826.04	5,750.63	5,713.92	36.70	156.677		
4,600.00	4,449.89	4,420.70	4,419.57	24.39	15.31	117.41	5,036.45	1,831.30	5,766.59	5,728.54	38.05	151.569		
4,700.00	4,545.06	4,523.59	4,522.44	25.05	15.67	117.71	5,035.76	1,833.47	5,781.83	5,742.85	38.98	148.324		
4,800.00	4,640.22	4,633.85	4,632.68	25.71	16.05	118.03	5,034.69	1,835.66	5,796.90	5,756.95	39.94	145.134		
4,900.00	4,735.39	4,726.23	4,725.03	26.37	16.37	118.30	5,033.82	1,837.50	5,812.14	5,771.30	40.83	142.333		
5,000.00	4,830.55	4,863.90	4,862.66	27.03	16.85	118.70	5,031.98	1,840.14	5,827.19	5,785.30	41.89	139.099		
5,100.00	4,925.72	4,995.34	4,994.06	27.69	17.31	119.08	5,029.37	1,842.14	5,841.64	5,798.72	42.92	136.092		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 31-9 (GYRO) - GYRO SURVEY - GYRO SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 100-GYRO-MWD													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	5,105.19	5,103.88	28.35	17.69	119.40	5,026.90	1,843.46	5,855.87	5,811.99	43.88	133.466		
5,300.00	5,116.05	5,229.62	5,228.26	29.01	18.13	119.75	5,023.39	1,844.55	5,869.54	5,824.66	44.88	130.792		
5,400.00	5,211.21	5,300.00	5,298.60	29.67	18.37	119.95	5,021.55	1,845.57	5,883.81	5,838.13	45.68	128.797		
5,500.00	5,306.38	5,332.81	5,331.39	30.33	18.49	120.05	5,020.84	1,846.26	5,898.82	5,852.47	46.35	127.272		
5,600.00	5,401.54	5,400.00	5,398.55	30.99	18.72	120.25	5,019.72	1,848.15	5,914.80	5,867.67	47.14	125.486		
5,700.00	5,496.71	5,455.90	5,454.42	31.65	18.91	116.16	5,018.98	1,850.01	5,931.29	5,883.41	47.88	123.885		
5,800.00	5,591.13	5,548.21	5,546.66	32.30	19.24	89.08	5,017.72	1,853.17	5,938.79	5,889.99	48.80	121.684		
5,900.00	5,682.22	5,663.22	5,661.57	32.92	19.64	73.10	5,015.80	1,857.41	5,931.55	5,881.67	49.88	118.920		
6,000.00	5,767.23	5,761.67	5,759.96	33.50	19.98	65.20	5,013.93	1,860.46	5,909.57	5,858.65	50.93	116.035		
6,100.00	5,843.56	5,800.00	5,798.27	34.04	20.11	61.87	5,013.23	1,861.56	5,874.27	5,822.49	51.78	113.445		
6,200.00	5,908.90	5,800.00	5,798.27	34.53	20.11	61.56	5,013.23	1,861.56	5,827.41	5,774.91	52.50	111.003		
6,300.00	5,961.25	5,800.00	5,798.27	34.99	20.11	63.94	5,013.23	1,861.56	5,770.28	5,717.07	53.22	108.432		
6,400.00	5,999.04	5,800.00	5,798.27	35.42	20.11	69.00	5,013.23	1,861.56	5,704.34	5,650.42	53.93	105.782		
6,500.00	6,021.11	5,800.00	5,798.27	35.83	20.11	76.99	5,013.23	1,861.56	5,631.32	5,576.70	54.62	103.103		
6,600.00	6,027.00	5,800.00	5,798.27	36.24	20.11	86.15	5,013.23	1,861.56	5,553.26	5,497.97	55.29	100.440		
6,700.00	6,027.00	5,800.00	5,798.27	36.68	20.11	86.15	5,013.23	1,861.56	5,474.24	5,418.28	55.97	97.811		
6,800.00	6,027.00	5,800.00	5,798.27	37.20	20.11	86.15	5,013.23	1,861.56	5,395.93	5,339.25	56.68	95.198		
6,900.00	6,027.00	5,800.00	5,798.27	37.80	20.11	86.15	5,013.23	1,861.56	5,318.34	5,260.91	57.43	92.605		
7,000.00	6,027.00	5,800.00	5,798.27	38.47	20.11	86.15	5,013.23	1,861.56	5,241.51	5,183.29	58.22	90.037		
7,100.00	6,027.00	5,800.00	5,798.27	39.21	20.11	86.15	5,013.23	1,861.56	5,165.47	5,106.44	59.04	87.495		
7,200.00	6,027.00	5,800.00	5,798.27	40.02	20.11	86.15	5,013.23	1,861.56	5,090.27	5,030.37	59.90	84.985		
7,300.00	6,027.00	5,800.00	5,798.27	40.89	20.11	86.15	5,013.23	1,861.56	5,015.92	4,955.13	60.79	82.508		
7,400.00	6,027.00	5,800.00	5,798.27	41.83	20.11	86.15	5,013.23	1,861.56	4,942.49	4,880.76	61.73	80.068		
7,500.00	6,027.00	5,800.00	5,798.27	42.83	20.11	86.15	5,013.23	1,861.56	4,870.00	4,807.29	62.70	77.668		
7,600.00	6,027.00	5,800.00	5,798.27	43.88	20.11	86.15	5,013.23	1,861.56	4,798.50	4,734.78	63.72	75.311		
7,700.00	6,027.00	5,800.00	5,798.27	44.99	20.11	86.15	5,013.23	1,861.56	4,728.03	4,663.26	64.77	73.000		
7,800.00	6,027.00	5,800.00	5,798.27	46.14	20.11	86.15	5,013.23	1,861.56	4,658.64	4,592.78	65.86	70.737		
7,900.00	6,027.00	5,800.00	5,798.27	47.33	20.11	86.15	5,013.23	1,861.56	4,590.38	4,523.40	66.99	68.524		
8,000.00	6,027.00	5,800.00	5,798.27	48.57	20.11	86.15	5,013.23	1,861.56	4,523.31	4,455.15	68.16	66.364		
8,100.00	6,027.00	5,800.00	5,798.27	49.84	20.11	86.15	5,013.23	1,861.56	4,457.47	4,388.10	69.37	64.259		
8,200.00	6,027.00	5,800.00	5,798.27	51.15	20.11	86.15	5,013.23	1,861.56	4,392.91	4,322.30	70.61	62.210		
8,300.00	6,027.00	5,800.00	5,798.27	52.48	20.11	86.15	5,013.23	1,861.56	4,329.71	4,257.81	71.90	60.220		
8,400.00	6,027.00	5,800.00	5,798.27	53.85	20.11	86.15	5,013.23	1,861.56	4,267.91	4,194.69	73.22	58.289		
8,500.00	6,027.00	5,800.00	5,798.27	55.24	20.11	86.15	5,013.23	1,861.56	4,207.59	4,133.01	74.58	56.419		
8,600.00	6,027.00	5,800.00	5,798.27	56.65	20.11	86.15	5,013.23	1,861.56	4,148.79	4,072.82	75.97	54.612		
8,700.00	6,027.00	5,800.00	5,798.27	58.08	20.11	86.15	5,013.23	1,861.56	4,091.60	4,014.20	77.39	52.867		
8,800.00	6,027.00	5,800.00	5,798.27	59.54	20.11	86.15	5,013.23	1,861.56	4,036.07	3,957.22	78.85	51.187		
8,900.00	6,027.00	5,800.00	5,798.27	61.01	20.11	86.15	5,013.23	1,861.56	3,982.28	3,901.94	80.34	49.571		
9,000.00	6,027.00	5,800.00	5,798.27	62.50	20.11	86.15	5,013.23	1,861.56	3,930.30	3,848.45	81.85	48.020		
9,100.00	6,027.00	5,800.00	5,798.27	64.01	20.11	86.15	5,013.23	1,861.56	3,880.19	3,796.81	83.38	46.534		
9,200.00	6,027.00	5,800.00	5,798.27	65.53	20.11	86.15	5,013.23	1,861.56	3,832.05	3,747.11	84.94	45.114		
9,300.00	6,027.00	5,800.00	5,798.27	67.06	20.11	86.15	5,013.23	1,861.56	3,785.93	3,699.42	86.52	43.760		
9,400.00	6,027.00	5,800.00	5,798.27	68.61	20.11	86.15	5,013.23	1,861.56	3,741.92	3,653.82	88.11	42.471		
9,500.00	6,027.00	5,800.00	5,798.27	70.17	20.11	86.15	5,013.23	1,861.56	3,700.09	3,610.39	89.70	41.248		
9,600.00	6,027.00	5,800.00	5,798.27	71.73	20.11	86.15	5,013.23	1,861.56	3,660.51	3,569.21	91.31	40.089		
9,700.00	6,027.00	5,800.00	5,798.27	73.31	20.11	86.15	5,013.23	1,861.56	3,623.27	3,530.35	92.91	38.996		
9,800.00	6,027.00	5,800.00	5,798.27	74.90	20.11	86.15	5,013.23	1,861.56	3,588.42	3,493.90	94.51	37.967		
9,900.00	6,027.00	5,800.00	5,798.27	76.50	20.11	86.15	5,013.23	1,861.56	3,556.04	3,459.94	96.11	37.001		
10,000.00	6,027.00	5,800.00	5,798.27	78.10	20.11	86.15	5,013.23	1,861.56	3,526.20	3,428.52	97.68	36.099		
10,100.00	6,027.00	5,800.00	5,798.27	79.71	20.11	86.15	5,013.23	1,861.56	3,498.97	3,399.74	99.24	35.259		
10,200.00	6,027.00	5,800.00	5,798.27	81.33	20.11	86.15	5,013.23	1,861.56	3,474.41	3,373.64	100.77	34.480		
10,300.00	6,027.00	5,800.00	5,798.27	82.96	20.11	86.15	5,013.23	1,861.56	3,452.56	3,350.30	102.26	33.762		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 31-9 (GYRO) - GYRO SURVEY - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
10,400.00	6,027.00	5,800.00	5,798.27	84.59	20.11	86.15	5,013.23	1,861.56	3,433.49	3,329.77	103.72	33.103		
10,500.00	6,027.00	5,800.00	5,798.27	86.23	20.11	86.15	5,013.23	1,861.56	3,417.25	3,312.11	105.13	32.503		
10,600.00	6,027.00	5,800.00	5,798.27	87.87	20.11	86.15	5,013.23	1,861.56	3,403.86	3,297.36	106.50	31.961		
10,700.00	6,027.00	5,800.00	5,798.27	89.52	20.11	86.15	5,013.23	1,861.56	3,393.37	3,285.56	107.81	31.475		
10,800.00	6,027.00	5,800.00	5,798.27	91.17	20.11	86.15	5,013.23	1,861.56	3,385.80	3,276.74	109.06	31.045		
10,900.00	6,027.00	5,800.00	5,798.27	92.83	20.11	86.15	5,013.23	1,861.56	3,381.17	3,270.92	110.25	30.668		
11,000.00	6,027.00	5,800.00	5,798.27	94.49	20.11	86.15	5,013.23	1,861.56	3,379.50	3,268.13	111.37	30.345		
11,006.55	6,027.00	5,800.00	5,798.27	94.60	20.11	86.15	5,013.23	1,861.56	3,379.49	3,268.05	111.44	30.325 CC, ES		
11,100.00	6,027.00	5,800.00	5,798.27	96.16	20.11	86.15	5,013.23	1,861.56	3,380.79	3,268.37	112.42	30.073		
11,200.00	6,027.00	5,800.00	5,798.27	97.83	20.11	86.15	5,013.23	1,861.56	3,385.03	3,271.63	113.39	29.852		
11,300.00	6,027.00	5,800.00	5,798.27	99.50	20.11	86.15	5,013.23	1,861.56	3,392.21	3,277.92	114.29	29.680		
11,400.00	6,027.00	5,800.00	5,798.27	101.18	20.11	86.15	5,013.23	1,861.56	3,402.32	3,287.21	115.11	29.556		
11,500.00	6,027.00	5,800.00	5,798.27	102.86	20.11	86.15	5,013.23	1,861.56	3,415.33	3,299.47	115.86	29.479		
11,600.00	6,027.00	5,800.00	5,798.27	104.54	20.11	86.15	5,013.23	1,861.56	3,431.20	3,314.68	116.52	29.447 SF		
11,700.00	6,027.00	5,800.00	5,798.27	106.23	20.11	86.15	5,013.23	1,861.56	3,449.91	3,332.80	117.11	29.460		
11,800.00	6,027.00	5,800.00	5,798.27	107.92	20.11	86.15	5,013.23	1,861.56	3,471.39	3,353.78	117.61	29.515		
11,900.00	6,027.00	5,800.00	5,798.27	109.61	20.11	86.15	5,013.23	1,861.56	3,495.60	3,377.56	118.04	29.612		
12,000.00	6,027.00	5,800.00	5,798.27	111.31	20.11	86.15	5,013.23	1,861.56	3,522.49	3,404.09	118.40	29.750		
12,100.00	6,027.00	5,800.00	5,798.27	113.00	20.11	86.15	5,013.23	1,861.56	3,551.99	3,433.30	118.69	29.927		
12,200.00	6,027.00	5,800.00	5,798.27	114.71	20.11	86.15	5,013.23	1,861.56	3,584.03	3,465.13	118.91	30.142		
12,300.00	6,027.00	5,800.00	5,798.27	116.41	20.11	86.15	5,013.23	1,861.56	3,618.56	3,499.51	119.06	30.394		
12,400.00	6,027.00	5,800.00	5,798.27	118.11	20.11	86.15	5,013.23	1,861.56	3,655.50	3,536.35	119.15	30.681		
12,500.00	6,027.00	5,800.00	5,798.27	119.82	20.11	86.15	5,013.23	1,861.56	3,694.78	3,575.60	119.18	31.003		
12,600.00	6,027.00	5,800.00	5,798.27	121.53	20.11	86.15	5,013.23	1,861.56	3,736.32	3,617.17	119.15	31.358		
12,700.00	6,027.00	5,800.00	5,798.27	123.24	20.11	86.15	5,013.23	1,861.56	3,780.05	3,660.97	119.07	31.745		
12,800.00	6,027.00	5,800.00	5,798.27	124.95	20.11	86.15	5,013.23	1,861.56	3,825.89	3,706.94	118.95	32.164		
12,900.00	6,027.00	5,800.00	5,798.27	126.66	20.11	86.15	5,013.23	1,861.56	3,873.77	3,754.99	118.78	32.613		
13,000.00	6,027.00	5,800.00	5,798.27	128.38	20.11	86.15	5,013.23	1,861.56	3,923.62	3,805.05	118.57	33.091		
13,100.00	6,027.00	5,800.00	5,798.27	130.10	20.11	86.15	5,013.23	1,861.56	3,975.36	3,857.04	118.33	33.597		
13,200.00	6,027.00	5,800.00	5,798.27	131.82	20.11	86.15	5,013.23	1,861.56	4,028.92	3,910.87	118.05	34.130		
13,300.00	6,027.00	5,800.00	5,798.27	133.54	20.11	86.15	5,013.23	1,861.56	4,084.22	3,966.49	117.74	34.689		
13,400.00	6,027.00	5,800.00	5,798.27	135.26	20.11	86.15	5,013.23	1,861.56	4,141.21	4,023.80	117.40	35.274		
13,500.00	6,027.00	5,800.00	5,798.27	136.98	20.11	86.15	5,013.23	1,861.56	4,199.79	4,082.75	117.04	35.883		
13,600.00	6,027.00	5,800.00	5,798.27	138.71	20.11	86.15	5,013.23	1,861.56	4,259.92	4,143.27	116.66	36.516		
13,700.00	6,027.00	5,800.00	5,798.27	140.43	20.11	86.15	5,013.23	1,861.56	4,321.53	4,205.27	116.26	37.171		
13,800.00	6,027.00	5,800.00	5,798.27	142.16	20.11	86.15	5,013.23	1,861.56	4,384.56	4,268.71	115.85	37.848		
13,900.00	6,027.00	5,800.00	5,798.27	143.89	20.11	86.15	5,013.23	1,861.56	4,448.94	4,333.52	115.42	38.547		
14,000.00	6,027.00	5,800.00	5,798.27	145.62	20.11	86.15	5,013.23	1,861.56	4,514.61	4,399.64	114.98	39.266		
14,100.00	6,027.00	5,800.00	5,798.27	147.35	20.11	86.15	5,013.23	1,861.56	4,581.53	4,467.00	114.53	40.004		
14,200.00	6,027.00	5,800.00	5,798.27	149.08	20.11	86.15	5,013.23	1,861.56	4,649.63	4,535.56	114.07	40.761		
14,300.00	6,027.00	5,800.00	5,798.27	150.81	20.11	86.15	5,013.23	1,861.56	4,718.88	4,605.27	113.61	41.537		
14,400.00	6,027.00	5,800.00	5,798.27	152.54	20.11	86.15	5,013.23	1,861.56	4,789.20	4,676.07	113.14	42.330		
14,500.00	6,027.00	5,800.00	5,798.27	154.28	20.11	86.15	5,013.23	1,861.56	4,860.57	4,747.90	112.67	43.140		
14,600.00	6,027.00	5,800.00	5,798.27	156.01	20.11	86.15	5,013.23	1,861.56	4,932.94	4,820.74	112.20	43.967		
14,700.00	6,027.00	5,800.00	5,798.27	157.75	20.11	86.15	5,013.23	1,861.56	5,006.25	4,894.53	111.72	44.809		
14,800.00	6,027.00	5,800.00	5,798.27	159.49	20.11	86.15	5,013.23	1,861.56	5,080.48	4,969.23	111.25	45.667		
14,900.00	6,027.00	5,800.00	5,798.27	161.22	20.11	86.15	5,013.23	1,861.56	5,155.57	5,044.79	110.78	46.539		
15,000.00	6,027.00	5,800.00	5,798.27	162.96	20.11	86.15	5,013.23	1,861.56	5,231.50	5,121.19	110.31	47.425		
15,100.00	6,027.00	5,800.00	5,798.27	164.70	20.11	86.15	5,013.23	1,861.56	5,308.23	5,198.39	109.84	48.325		
15,200.00	6,027.00	5,800.00	5,798.27	166.44	20.11	86.15	5,013.23	1,861.56	5,385.72	5,276.34	109.38	49.238		
15,300.00	6,027.00	5,800.00	5,798.27	168.18	20.11	86.15	5,013.23	1,861.56	5,463.94	5,355.02	108.92	50.164		
15,400.00	6,027.00	5,800.00	5,798.27	169.93	20.11	86.15	5,013.23	1,861.56	5,542.87	5,434.40	108.47	51.102		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 9-T5N-R61W - ABND VERT PRONGHORN 31-9 (GYRO) - GYRO SURVEY - GYRO SURVEY												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-GYRO-MWD												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	5,800.00	5,798.27	171.67	20.11	86.15	5,013.23	1,861.56	5,622.46	5,514.44	108.02	52.052	
15,600.00	6,027.00	5,800.00	5,798.27	173.41	20.11	86.15	5,013.23	1,861.56	5,702.70	5,595.12	107.57	53.012	
15,700.00	6,027.00	5,800.00	5,798.27	175.15	20.11	86.15	5,013.23	1,861.56	5,783.55	5,676.42	107.13	53.984	
15,800.00	6,027.00	5,800.00	5,798.27	176.90	20.11	86.15	5,013.23	1,861.56	5,864.99	5,758.29	106.70	54.966	
15,900.00	6,027.00	5,800.00	5,798.27	178.64	20.11	86.15	5,013.23	1,861.56	5,947.00	5,840.73	106.27	55.959	
16,000.00	6,027.00	5,800.00	5,798.27	180.39	20.11	86.15	5,013.23	1,861.56	6,029.55	5,923.70	105.85	56.961	
16,100.00	6,027.00	5,800.00	5,798.27	182.13	20.11	86.15	5,013.23	1,861.56	6,112.63	6,007.19	105.44	57.972	
16,200.00	6,027.00	5,800.00	5,798.27	183.88	20.11	86.15	5,013.23	1,861.56	6,196.20	6,091.17	105.03	58.993	
16,300.00	6,027.00	5,800.00	5,798.27	185.63	20.11	86.15	5,013.23	1,861.56	6,280.25	6,175.62	104.63	60.022	
16,400.00	6,027.00	5,800.00	5,798.27	187.38	20.11	86.15	5,013.23	1,861.56	6,364.77	6,260.53	104.24	61.060	
16,500.00	6,027.00	5,800.00	5,798.27	189.12	20.11	86.15	5,013.23	1,861.56	6,449.73	6,345.88	103.85	62.105	
16,600.00	6,027.00	5,800.00	5,798.27	190.87	20.11	86.15	5,013.23	1,861.56	6,535.11	6,431.64	103.47	63.159	
16,700.00	6,027.00	5,800.00	5,798.27	192.62	20.11	86.15	5,013.23	1,861.56	6,620.90	6,517.80	103.10	64.220	
16,795.97	6,027.00	5,800.00	5,798.27	194.30	20.11	86.15	5,013.23	1,861.56	6,703.61	6,600.86	102.75	65.244	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 31-9 (GYRO) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	98.00	98.00	0.27	2.35	19.89	5,002.08	1,809.82	5,319.42	5,316.80	2.62	2,032.353		
200.00	200.00	198.00	198.00	0.63	4.44	19.89	5,002.08	1,809.82	5,319.42	5,314.35	5.07	1,049.155		
300.00	300.00	298.00	298.00	0.99	6.48	19.89	5,002.08	1,809.82	5,319.42	5,311.95	7.47	712.155		
400.00	400.00	398.00	398.00	1.34	8.51	19.89	5,002.08	1,809.82	5,319.42	5,309.57	9.85	539.803		
500.00	500.00	498.00	498.00	1.70	10.53	19.89	5,002.08	1,809.82	5,319.42	5,307.19	12.23	434.831		
600.00	600.00	598.00	598.00	2.06	12.55	19.89	5,002.08	1,809.82	5,319.42	5,304.81	14.61	364.115		
700.00	700.00	698.00	698.00	2.42	14.56	19.89	5,002.08	1,809.82	5,319.42	5,302.44	16.98	313.216		
800.00	800.00	798.00	798.00	2.78	16.58	19.89	5,002.08	1,809.82	5,319.42	5,300.06	19.36	274.818		
900.00	900.00	898.00	898.00	3.14	18.59	19.89	5,002.08	1,809.82	5,319.42	5,297.69	21.73	244.815		
1,000.00	999.98	997.98	997.98	3.49	20.60	109.15	5,002.08	1,809.82	5,319.99	5,295.90	24.09	220.824		
1,100.00	1,099.84	1,097.84	1,097.84	3.83	22.61	109.17	5,002.08	1,809.82	5,321.71	5,295.26	26.45	201.214		
1,200.00	1,199.45	1,197.45	1,197.45	4.19	24.62	109.21	5,002.08	1,809.82	5,324.59	5,295.78	28.81	184.840		
1,300.00	1,298.70	1,296.70	1,296.70	4.55	26.62	109.25	5,002.08	1,809.82	5,328.63	5,297.46	31.17	170.966		
1,400.00	1,397.47	1,395.47	1,395.47	4.94	28.60	109.31	5,002.08	1,809.82	5,333.85	5,300.32	33.53	159.059		
1,500.00	1,495.62	1,493.62	1,493.62	5.34	30.58	109.38	5,002.08	1,809.82	5,340.28	5,304.37	35.91	148.726		
1,600.00	1,593.06	1,591.06	1,591.06	5.78	32.54	109.46	5,002.08	1,809.82	5,347.93	5,309.65	38.29	139.670		
1,700.00	1,689.64	1,687.64	1,687.64	6.24	34.48	109.54	5,002.08	1,809.82	5,356.85	5,316.16	40.69	131.664		
1,800.00	1,785.27	1,783.27	1,783.27	6.75	36.41	109.64	5,002.08	1,809.82	5,367.04	5,323.94	43.10	124.531		
1,900.00	1,880.44	1,878.44	1,878.44	7.30	38.32	109.94	5,002.08	1,809.82	5,377.91	5,332.38	45.53	118.123		
2,000.00	1,975.60	1,973.60	1,973.60	7.86	40.23	110.23	5,002.08	1,809.82	5,388.92	5,340.95	47.97	112.330		
2,100.00	2,070.77	2,068.77	2,068.77	8.43	42.15	110.53	5,002.08	1,809.82	5,400.10	5,349.66	50.43	107.074		
2,200.00	2,165.93	2,163.93	2,163.93	9.02	44.06	110.82	5,002.08	1,809.82	5,411.42	5,358.52	52.90	102.291		
2,300.00	2,261.10	2,259.10	2,259.10	9.62	45.98	111.11	5,002.08	1,809.82	5,422.89	5,367.51	55.38	97.923		
2,400.00	2,356.26	2,354.26	2,354.26	10.23	47.89	111.40	5,002.08	1,809.82	5,434.51	5,376.65	57.86	93.921		
2,500.00	2,451.43	2,449.43	2,449.43	10.84	49.80	111.69	5,002.08	1,809.82	5,446.28	5,385.93	60.35	90.244		
2,600.00	2,546.59	2,544.59	2,544.59	11.46	51.72	111.97	5,002.08	1,809.82	5,458.20	5,395.36	62.84	86.855		
2,700.00	2,641.76	2,639.76	2,639.76	12.09	53.63	112.26	5,002.08	1,809.82	5,470.26	5,404.93	65.34	83.723		
2,800.00	2,736.92	2,734.92	2,734.92	12.72	55.55	112.55	5,002.08	1,809.82	5,482.47	5,414.64	67.84	80.821		
2,900.00	2,832.09	2,830.09	2,830.09	13.35	57.46	112.83	5,002.08	1,809.82	5,494.83	5,424.49	70.33	78.125		
3,000.00	2,927.25	2,925.25	2,925.25	13.99	59.37	113.11	5,002.08	1,809.82	5,507.33	5,434.49	72.83	75.615		
3,100.00	3,022.42	3,020.42	3,020.42	14.63	61.29	113.39	5,002.08	1,809.82	5,519.97	5,444.63	75.34	73.272		
3,200.00	3,117.58	3,115.58	3,115.58	15.27	63.20	113.67	5,002.08	1,809.82	5,532.75	5,454.91	77.84	71.081		
3,300.00	3,212.75	3,210.75	3,210.75	15.91	65.12	113.95	5,002.08	1,809.82	5,545.67	5,465.33	80.34	69.029		
3,400.00	3,307.91	3,305.91	3,305.91	16.56	67.03	114.23	5,002.08	1,809.82	5,558.74	5,475.90	82.84	67.102		
3,500.00	3,403.08	3,401.08	3,401.08	17.20	68.94	114.51	5,002.08	1,809.82	5,571.94	5,486.60	85.34	65.290		
3,600.00	3,498.24	3,496.24	3,496.24	17.85	70.86	114.78	5,002.08	1,809.82	5,585.28	5,497.43	87.84	63.583		
3,700.00	3,593.41	3,591.41	3,591.41	18.50	72.77	115.06	5,002.08	1,809.82	5,598.75	5,508.41	90.34	61.973		
3,800.00	3,688.57	3,686.57	3,686.57	19.15	74.69	115.33	5,002.08	1,809.82	5,612.36	5,519.52	92.84	60.451		
3,900.00	3,783.74	3,781.74	3,781.74	19.81	76.60	115.60	5,002.08	1,809.82	5,626.11	5,530.77	95.34	59.011		
4,000.00	3,878.90	3,876.90	3,876.90	20.46	78.51	115.87	5,002.08	1,809.82	5,639.99	5,542.15	97.84	57.646		
4,100.00	3,974.07	3,972.07	3,972.07	21.11	80.43	116.14	5,002.08	1,809.82	5,654.00	5,553.67	100.34	56.351		
4,200.00	4,069.23	4,067.23	4,067.23	21.77	82.34	116.41	5,002.08	1,809.82	5,668.15	5,565.32	102.83	55.121		
4,300.00	4,164.40	4,162.40	4,162.40	22.42	84.25	116.67	5,002.08	1,809.82	5,682.43	5,577.10	105.33	53.951		
4,400.00	4,259.56	4,257.56	4,257.56	23.08	86.17	116.94	5,002.08	1,809.82	5,696.83	5,589.01	107.82	52.837		
4,500.00	4,354.73	4,352.73	4,352.73	23.74	88.08	117.20	5,002.08	1,809.82	5,711.37	5,601.06	110.31	51.776		
4,600.00	4,449.89	4,447.89	4,447.89	24.39	90.00	117.47	5,002.08	1,809.82	5,726.03	5,613.23	112.80	50.762		
4,700.00	4,545.06	4,543.06	4,543.06	25.05	91.91	117.73	5,002.08	1,809.82	5,740.82	5,625.53	115.29	49.795		
4,800.00	4,640.22	4,638.22	4,638.22	25.71	93.82	117.99	5,002.08	1,809.82	5,755.73	5,637.96	117.78	48.870		
4,900.00	4,735.39	4,733.39	4,733.39	26.37	95.74	118.25	5,002.08	1,809.82	5,770.77	5,650.51	120.26	47.984		
5,000.00	4,830.55	4,828.55	4,828.55	27.03	97.65	118.51	5,002.08	1,809.82	5,785.94	5,663.19	122.75	47.137		
5,100.00	4,925.72	4,923.72	4,923.72	27.69	99.56	118.76	5,002.08	1,809.82	5,801.23	5,675.99	125.23	46.324		
5,200.00	5,020.88	5,018.88	5,018.88	28.35	101.48	119.02	5,002.08	1,809.82	5,816.64	5,688.92	127.71	45.545		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 31-9 (GYRO) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,114.05	5,114.05	29.01	103.39	119.27	5,002.08	1,809.82	5,832.17	5,701.97	130.19	44.796		
5,400.00	5,211.21	5,209.21	5,209.21	29.67	105.31	119.53	5,002.08	1,809.82	5,847.82	5,715.15	132.67	44.078		
5,500.00	5,306.38	5,304.38	5,304.38	30.33	107.22	119.78	5,002.08	1,809.82	5,863.59	5,728.44	135.15	43.386		
5,600.00	5,401.54	5,399.54	5,399.54	30.99	109.13	120.03	5,002.08	1,809.82	5,879.47	5,741.85	137.62	42.722		
5,700.00	5,496.71	5,494.71	5,494.71	31.65	111.05	116.03	5,002.08	1,809.82	5,895.35	5,755.25	140.10	42.080		
5,800.00	5,591.13	5,589.13	5,589.13	32.30	112.95	88.98	5,002.08	1,809.82	5,902.05	5,759.44	142.60	41.388		
5,900.00	5,682.22	5,680.22	5,680.22	32.92	114.78	72.90	5,002.08	1,809.82	5,894.02	5,748.92	145.10	40.620		
6,000.00	5,767.23	5,765.23	5,765.23	33.50	116.49	64.92	5,002.08	1,809.82	5,871.68	5,724.16	147.52	39.803		
6,100.00	5,843.56	5,841.56	5,841.56	34.04	118.02	61.85	5,002.08	1,809.82	5,835.84	5,686.06	149.78	38.962		
6,200.00	5,908.90	5,906.90	5,906.90	34.53	119.34	62.16	5,002.08	1,809.82	5,787.77	5,635.93	151.84	38.118		
6,300.00	5,961.25	5,959.25	5,959.25	34.99	120.39	65.32	5,002.08	1,809.82	5,729.02	5,575.39	153.63	37.291		
6,400.00	5,999.04	5,997.04	5,997.04	35.42	121.15	71.30	5,002.08	1,809.82	5,661.47	5,506.35	155.12	36.497		
6,500.00	6,021.11	6,019.11	6,019.11	35.83	121.59	80.24	5,002.08	1,809.82	5,587.19	5,430.92	156.27	35.753		
6,600.00	6,027.00	6,025.00	6,025.00	36.24	121.71	90.00	5,002.08	1,809.82	5,508.44	5,351.38	157.07	35.071		
6,700.00	6,027.00	6,025.00	6,025.00	36.68	121.71	90.00	5,002.08	1,809.82	5,428.98	5,271.23	157.75	34.415		
6,800.00	6,027.00	6,025.00	6,025.00	37.20	121.71	90.00	5,002.08	1,809.82	5,350.21	5,191.75	158.47	33.762		
6,900.00	6,027.00	6,025.00	6,025.00	37.80	121.71	90.00	5,002.08	1,809.82	5,272.16	5,112.94	159.22	33.113		
7,000.00	6,027.00	6,025.00	6,025.00	38.47	121.71	90.00	5,002.08	1,809.82	5,194.86	5,034.86	160.01	32.466		
7,100.00	6,027.00	6,025.00	6,025.00	39.21	121.71	90.00	5,002.08	1,809.82	5,118.35	4,957.52	160.83	31.824		
7,200.00	6,027.00	6,025.00	6,025.00	40.02	121.71	90.00	5,002.08	1,809.82	5,042.66	4,880.96	161.70	31.186		
7,300.00	6,027.00	6,025.00	6,025.00	40.89	121.71	90.00	5,002.08	1,809.82	4,967.83	4,805.23	162.60	30.552		
7,400.00	6,027.00	6,025.00	6,025.00	41.83	121.71	90.00	5,002.08	1,809.82	4,893.90	4,730.36	163.54	29.925		
7,500.00	6,027.00	6,025.00	6,025.00	42.83	121.71	90.00	5,002.08	1,809.82	4,820.91	4,656.39	164.52	29.303		
7,600.00	6,027.00	6,025.00	6,025.00	43.88	121.71	90.00	5,002.08	1,809.82	4,748.91	4,583.37	165.54	28.688		
7,700.00	6,027.00	6,025.00	6,025.00	44.99	121.71	90.00	5,002.08	1,809.82	4,677.93	4,511.33	166.60	28.079		
7,800.00	6,027.00	6,025.00	6,025.00	46.14	121.71	90.00	5,002.08	1,809.82	4,608.03	4,440.34	167.69	27.479		
7,900.00	6,027.00	6,025.00	6,025.00	47.33	121.71	90.00	5,002.08	1,809.82	4,539.26	4,370.43	168.83	26.886		
8,000.00	6,027.00	6,025.00	6,025.00	48.57	121.71	90.00	5,002.08	1,809.82	4,471.67	4,301.66	170.01	26.302		
8,100.00	6,027.00	6,025.00	6,025.00	49.84	121.71	90.00	5,002.08	1,809.82	4,405.31	4,234.08	171.23	25.728		
8,200.00	6,027.00	6,025.00	6,025.00	51.15	121.71	90.00	5,002.08	1,809.82	4,340.24	4,167.75	172.48	25.163		
8,300.00	6,027.00	6,025.00	6,025.00	52.48	121.71	90.00	5,002.08	1,809.82	4,276.51	4,102.74	173.78	24.609		
8,400.00	6,027.00	6,025.00	6,025.00	53.85	121.71	90.00	5,002.08	1,809.82	4,214.20	4,039.09	175.11	24.066		
8,500.00	6,027.00	6,025.00	6,025.00	55.24	121.71	90.00	5,002.08	1,809.82	4,153.36	3,976.88	176.48	23.535		
8,600.00	6,027.00	6,025.00	6,025.00	56.65	121.71	90.00	5,002.08	1,809.82	4,094.06	3,916.18	177.88	23.016		
8,700.00	6,027.00	6,025.00	6,025.00	58.08	121.71	90.00	5,002.08	1,809.82	4,036.36	3,857.05	179.32	22.510		
8,800.00	6,027.00	6,025.00	6,025.00	59.54	121.71	90.00	5,002.08	1,809.82	3,980.35	3,799.56	180.79	22.017		
8,900.00	6,027.00	6,025.00	6,025.00	61.01	121.71	90.00	5,002.08	1,809.82	3,926.08	3,743.79	182.29	21.538		
9,000.00	6,027.00	6,025.00	6,025.00	62.50	121.71	90.00	5,002.08	1,809.82	3,873.63	3,689.81	183.81	21.074		
9,100.00	6,027.00	6,025.00	6,025.00	64.01	121.71	90.00	5,002.08	1,809.82	3,823.08	3,637.71	185.36	20.625		
9,200.00	6,027.00	6,025.00	6,025.00	65.53	121.71	90.00	5,002.08	1,809.82	3,774.50	3,587.56	186.94	20.191		
9,300.00	6,027.00	6,025.00	6,025.00	67.06	121.71	90.00	5,002.08	1,809.82	3,727.97	3,539.44	188.53	19.774		
9,400.00	6,027.00	6,025.00	6,025.00	68.61	121.71	90.00	5,002.08	1,809.82	3,683.57	3,493.43	190.13	19.374		
9,500.00	6,027.00	6,025.00	6,025.00	70.17	121.71	90.00	5,002.08	1,809.82	3,641.37	3,449.62	191.75	18.990		
9,600.00	6,027.00	6,025.00	6,025.00	71.73	121.71	90.00	5,002.08	1,809.82	3,601.46	3,408.09	193.37	18.625		
9,700.00	6,027.00	6,025.00	6,025.00	73.31	121.71	90.00	5,002.08	1,809.82	3,563.91	3,368.92	194.99	18.278		
9,800.00	6,027.00	6,025.00	6,025.00	74.90	121.71	90.00	5,002.08	1,809.82	3,528.79	3,332.19	196.60	17.949		
9,900.00	6,027.00	6,025.00	6,025.00	76.50	121.71	90.00	5,002.08	1,809.82	3,496.18	3,297.97	198.21	17.639		
10,000.00	6,027.00	6,025.00	6,025.00	78.10	121.71	90.00	5,002.08	1,809.82	3,466.15	3,266.35	199.80	17.348		
10,100.00	6,027.00	6,025.00	6,025.00	79.71	121.71	90.00	5,002.08	1,809.82	3,438.76	3,237.40	201.36	17.077		
10,200.00	6,027.00	6,025.00	6,025.00	81.33	121.71	90.00	5,002.08	1,809.82	3,414.09	3,211.19	202.90	16.826		
10,300.00	6,027.00	6,025.00	6,025.00	82.96	121.71	90.00	5,002.08	1,809.82	3,392.19	3,187.78	204.40	16.595		
10,400.00	6,027.00	6,025.00	6,025.00	84.59	121.71	90.00	5,002.08	1,809.82	3,373.11	3,167.24	205.87	16.385		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 31-9 (GYRO) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,500.00	6,027.00	6,025.00	6,025.00	86.23	121.71	90.00	5,002.08	1,809.82	3,356.90	3,149.61	207.29	16.195		
10,600.00	6,027.00	6,025.00	6,025.00	87.87	121.71	90.00	5,002.08	1,809.82	3,343.61	3,134.95	208.65	16.025		
10,700.00	6,027.00	6,025.00	6,025.00	89.52	121.71	90.00	5,002.08	1,809.82	3,333.26	3,123.30	209.96	15.876		
10,800.00	6,027.00	6,025.00	6,025.00	91.17	121.71	90.00	5,002.08	1,809.82	3,325.89	3,114.68	211.20	15.747		
10,900.00	6,027.00	6,025.00	6,025.00	92.83	121.71	90.00	5,002.08	1,809.82	3,321.51	3,109.13	212.38	15.639		
10,995.41	6,027.00	6,025.00	6,025.00	94.41	121.71	90.00	5,002.08	1,809.82	3,320.14	3,106.70	213.44	15.555	CC	
11,000.00	6,027.00	6,025.00	6,025.00	94.49	121.71	90.00	5,002.08	1,809.82	3,320.15	3,106.66	213.49	15.552	ES	
11,100.00	6,027.00	6,025.00	6,025.00	96.16	121.71	90.00	5,002.08	1,809.82	3,321.79	3,107.27	214.52	15.485		
11,200.00	6,027.00	6,025.00	6,025.00	97.83	121.71	90.00	5,002.08	1,809.82	3,326.44	3,110.96	215.48	15.437		
11,300.00	6,027.00	6,025.00	6,025.00	99.50	121.71	90.00	5,002.08	1,809.82	3,334.09	3,117.73	216.35	15.410		
11,400.00	6,027.00	6,025.00	6,025.00	101.18	121.71	90.00	5,002.08	1,809.82	3,344.70	3,127.56	217.15	15.403	SF	
11,500.00	6,027.00	6,025.00	6,025.00	102.86	121.71	90.00	5,002.08	1,809.82	3,358.27	3,140.41	217.86	15.415		
11,600.00	6,027.00	6,025.00	6,025.00	104.54	121.71	90.00	5,002.08	1,809.82	3,374.74	3,156.25	218.49	15.445		
11,700.00	6,027.00	6,025.00	6,025.00	106.23	121.71	90.00	5,002.08	1,809.82	3,394.08	3,175.04	219.04	15.495		
11,800.00	6,027.00	6,025.00	6,025.00	107.92	121.71	90.00	5,002.08	1,809.82	3,416.24	3,196.73	219.51	15.563		
11,900.00	6,027.00	6,025.00	6,025.00	109.61	121.71	90.00	5,002.08	1,809.82	3,441.17	3,221.26	219.91	15.648		
12,000.00	6,027.00	6,025.00	6,025.00	111.31	121.71	90.00	5,002.08	1,809.82	3,468.80	3,248.57	220.22	15.751		
12,100.00	6,027.00	6,025.00	6,025.00	113.00	121.71	90.00	5,002.08	1,809.82	3,499.07	3,278.60	220.47	15.871		
12,200.00	6,027.00	6,025.00	6,025.00	114.71	121.71	90.00	5,002.08	1,809.82	3,531.91	3,311.27	220.64	16.008		
12,300.00	6,027.00	6,025.00	6,025.00	116.41	121.71	90.00	5,002.08	1,809.82	3,567.26	3,346.51	220.75	16.160		
12,400.00	6,027.00	6,025.00	6,025.00	118.11	121.71	90.00	5,002.08	1,809.82	3,605.03	3,384.24	220.79	16.328		
12,500.00	6,027.00	6,025.00	6,025.00	119.82	121.71	90.00	5,002.08	1,809.82	3,645.16	3,424.38	220.78	16.511		
12,600.00	6,027.00	6,025.00	6,025.00	121.53	121.71	90.00	5,002.08	1,809.82	3,687.56	3,466.85	220.71	16.708		
12,700.00	6,027.00	6,025.00	6,025.00	123.24	121.71	90.00	5,002.08	1,809.82	3,732.16	3,511.57	220.58	16.919		
12,800.00	6,027.00	6,025.00	6,025.00	124.95	121.71	90.00	5,002.08	1,809.82	3,778.88	3,558.46	220.41	17.144		
12,900.00	6,027.00	6,025.00	6,025.00	126.66	121.71	90.00	5,002.08	1,809.82	3,827.64	3,607.44	220.20	17.382		
13,000.00	6,027.00	6,025.00	6,025.00	128.38	121.71	90.00	5,002.08	1,809.82	3,878.37	3,658.42	219.95	17.633		
13,100.00	6,027.00	6,025.00	6,025.00	130.10	121.71	90.00	5,002.08	1,809.82	3,930.99	3,711.33	219.66	17.896		
13,200.00	6,027.00	6,025.00	6,025.00	131.82	121.71	90.00	5,002.08	1,809.82	3,985.42	3,766.08	219.34	18.170		
13,300.00	6,027.00	6,025.00	6,025.00	133.54	121.71	90.00	5,002.08	1,809.82	4,041.60	3,822.61	218.99	18.455		
13,400.00	6,027.00	6,025.00	6,025.00	135.26	121.71	90.00	5,002.08	1,809.82	4,099.44	3,880.82	218.62	18.752		
13,500.00	6,027.00	6,025.00	6,025.00	136.98	121.71	90.00	5,002.08	1,809.82	4,158.89	3,940.67	218.22	19.058		
13,600.00	6,027.00	6,025.00	6,025.00	138.71	121.71	90.00	5,002.08	1,809.82	4,219.87	4,002.06	217.80	19.375		
13,700.00	6,027.00	6,025.00	6,025.00	140.43	121.71	90.00	5,002.08	1,809.82	4,282.31	4,064.94	217.37	19.701		
13,800.00	6,027.00	6,025.00	6,025.00	142.16	121.71	90.00	5,002.08	1,809.82	4,346.16	4,129.24	216.92	20.036		
13,900.00	6,027.00	6,025.00	6,025.00	143.89	121.71	90.00	5,002.08	1,809.82	4,411.35	4,194.89	216.46	20.379		
14,000.00	6,027.00	6,025.00	6,025.00	145.62	121.71	90.00	5,002.08	1,809.82	4,477.83	4,261.84	215.99	20.731		
14,100.00	6,027.00	6,025.00	6,025.00	147.35	121.71	90.00	5,002.08	1,809.82	4,545.53	4,330.02	215.51	21.091		
14,200.00	6,027.00	6,025.00	6,025.00	149.08	121.71	90.00	5,002.08	1,809.82	4,614.41	4,399.38	215.03	21.459		
14,300.00	6,027.00	6,025.00	6,025.00	150.81	121.71	90.00	5,002.08	1,809.82	4,684.41	4,469.87	214.54	21.834		
14,400.00	6,027.00	6,025.00	6,025.00	152.54	121.71	90.00	5,002.08	1,809.82	4,755.48	4,541.43	214.05	22.217		
14,500.00	6,027.00	6,025.00	6,025.00	154.28	121.71	90.00	5,002.08	1,809.82	4,827.58	4,614.02	213.56	22.606		
14,600.00	6,027.00	6,025.00	6,025.00	156.01	121.71	90.00	5,002.08	1,809.82	4,900.66	4,687.60	213.06	23.001		
14,700.00	6,027.00	6,025.00	6,025.00	157.75	121.71	90.00	5,002.08	1,809.82	4,974.67	4,762.10	212.57	23.402		
14,800.00	6,027.00	6,025.00	6,025.00	159.49	121.71	90.00	5,002.08	1,809.82	5,049.58	4,837.51	212.08	23.810		
14,900.00	6,027.00	6,025.00	6,025.00	161.22	121.71	90.00	5,002.08	1,809.82	5,125.35	4,913.76	211.59	24.223		
15,000.00	6,027.00	6,025.00	6,025.00	162.96	121.71	90.00	5,002.08	1,809.82	5,201.94	4,990.83	211.10	24.642		
15,100.00	6,027.00	6,025.00	6,025.00	164.70	121.71	90.00	5,002.08	1,809.82	5,279.30	5,068.68	210.62	25.065		
15,200.00	6,027.00	6,025.00	6,025.00	166.44	121.71	90.00	5,002.08	1,809.82	5,357.42	5,147.28	210.14	25.494		
15,300.00	6,027.00	6,025.00	6,025.00	168.18	121.71	90.00	5,002.08	1,809.82	5,436.26	5,226.59	209.67	25.928		
15,400.00	6,027.00	6,025.00	6,025.00	169.93	121.71	90.00	5,002.08	1,809.82	5,515.78	5,306.58	209.20	26.366		
15,500.00	6,027.00	6,025.00	6,025.00	171.67	121.71	90.00	5,002.08	1,809.82	5,595.96	5,387.22	208.74	26.808		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 9-T5N-R61W - ABND VERT PRONGHORN 31-9 (GYRO) - OWB - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-INC												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	6,025.00	6,025.00	173.41	121.71	90.00	5,002.08	1,809.82	5,676.76	5,468.48	208.28	27.255	
15,700.00	6,027.00	6,025.00	6,025.00	175.15	121.71	90.00	5,002.08	1,809.82	5,758.17	5,550.34	207.83	27.706	
15,800.00	6,027.00	6,025.00	6,025.00	176.90	121.71	90.00	5,002.08	1,809.82	5,840.16	5,632.77	207.39	28.160	
15,900.00	6,027.00	6,025.00	6,025.00	178.64	121.71	90.00	5,002.08	1,809.82	5,922.70	5,715.75	206.96	28.618	
16,000.00	6,027.00	6,025.00	6,025.00	180.39	121.71	90.00	5,002.08	1,809.82	6,005.77	5,799.25	206.53	29.080	
16,100.00	6,027.00	6,025.00	6,025.00	182.13	121.71	90.00	5,002.08	1,809.82	6,089.35	5,883.25	206.10	29.545	
16,200.00	6,027.00	6,025.00	6,025.00	183.88	121.71	90.00	5,002.08	1,809.82	6,173.42	5,967.73	205.69	30.013	
16,300.00	6,027.00	6,025.00	6,025.00	185.63	121.71	90.00	5,002.08	1,809.82	6,257.96	6,052.68	205.28	30.485	
16,400.00	6,027.00	6,025.00	6,025.00	187.38	121.71	90.00	5,002.08	1,809.82	6,342.95	6,138.07	204.88	30.959	
16,500.00	6,027.00	6,025.00	6,025.00	189.12	121.71	90.00	5,002.08	1,809.82	6,428.37	6,223.88	204.49	31.436	
16,600.00	6,027.00	6,025.00	6,025.00	190.87	121.71	90.00	5,002.08	1,809.82	6,514.20	6,310.10	204.10	31.916	
16,700.00	6,027.00	6,025.00	6,025.00	192.62	121.71	90.00	5,002.08	1,809.82	6,600.44	6,396.71	203.73	32.399	
16,795.97	6,027.00	6,025.00	6,025.00	194.30	121.71	90.00	5,002.08	1,809.82	6,683.55	6,480.18	203.37	32.864	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 41-9 (GYRO) - GYRO SURVEY - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	25.73	25.73	0.00	0.04	32.00	5,013.11	3,132.42	5,911.29					
100.00	100.00	130.54	130.54	0.27	0.27	32.01	5,012.56	3,133.15	5,911.21	5,910.67	0.54	N/A		
200.00	200.00	234.87	234.86	0.63	0.64	32.02	5,011.81	3,134.11	5,911.09	5,909.82	1.27	4,651.260		
300.00	300.00	372.02	372.00	0.99	1.12	32.03	5,010.57	3,134.99	5,910.69	5,908.59	2.11	2,804.552		
400.00	400.00	472.64	472.61	1.34	1.47	32.04	5,009.54	3,134.91	5,909.78	5,906.97	2.81	2,099.608		
500.00	500.00	561.02	560.99	1.70	1.78	32.04	5,008.87	3,134.79	5,909.06	5,905.58	3.48	1,697.909		
600.00	600.00	668.25	668.22	2.06	2.15	32.05	5,008.02	3,134.88	5,908.44	5,904.23	4.21	1,402.695		
700.00	700.00	758.35	758.32	2.42	2.47	32.05	5,007.30	3,134.77	5,907.71	5,902.82	4.89	1,209.356		
800.00	800.00	843.27	843.23	2.78	2.76	32.05	5,006.93	3,134.69	5,907.28	5,901.74	5.54	1,066.344		
900.00	900.00	941.78	941.75	3.14	3.11	32.05	5,006.49	3,134.87	5,907.01	5,900.76	6.24	946.340		
918.24	918.24	961.83	961.79	3.20	3.18	121.31	5,006.40	3,134.90	5,906.98	5,900.60	6.38	926.466		
1,000.00	999.98	1,037.79	1,037.75	3.49	3.44	121.31	5,006.10	3,134.91	5,907.58	5,900.66	6.93	852.806		
1,100.00	1,099.84	1,120.08	1,120.04	3.83	3.73	121.30	5,006.06	3,134.86	5,910.24	5,902.68	7.56	781.783		
1,200.00	1,199.45	1,211.73	1,211.70	4.19	4.05	121.29	5,006.17	3,134.96	5,914.93	5,906.70	8.23	718.649		
1,300.00	1,298.70	1,327.24	1,327.20	4.55	4.45	121.30	5,006.07	3,135.23	5,921.35	5,912.36	8.99	658.365		
1,400.00	1,397.47	1,431.79	1,431.75	4.94	4.81	121.30	5,005.86	3,135.24	5,929.38	5,919.65	9.73	609.227		
1,500.00	1,495.62	1,521.79	1,521.75	5.34	5.13	121.27	5,005.81	3,135.17	5,939.33	5,928.90	10.44	569.088		
1,600.00	1,593.06	1,630.14	1,630.10	5.78	5.51	121.27	5,005.72	3,135.17	5,951.17	5,939.95	11.22	530.173		
1,700.00	1,689.64	1,794.48	1,794.43	6.24	6.08	121.41	5,004.15	3,135.33	5,964.23	5,952.00	12.23	487.489		
1,800.00	1,785.27	1,899.52	1,899.45	6.75	6.45	121.44	5,002.15	3,135.61	5,978.49	5,965.42	13.07	457.480		
1,900.00	1,880.44	1,984.37	1,984.29	7.30	6.75	121.67	5,000.57	3,135.83	5,993.69	5,979.84	13.85	432.705		
2,000.00	1,975.60	2,103.57	2,103.48	7.86	7.17	121.98	4,998.65	3,135.51	6,008.96	5,994.19	14.77	406.856		
2,100.00	2,070.77	2,164.94	2,164.83	8.43	7.38	122.13	4,997.86	3,135.12	6,024.38	6,008.89	15.49	388.801		
2,200.00	2,165.93	2,239.59	2,239.48	9.02	7.64	122.32	4,997.33	3,134.67	6,040.38	6,024.11	16.28	371.138		
2,300.00	2,261.10	2,326.51	2,326.40	9.62	7.95	122.53	4,996.97	3,134.02	6,056.66	6,039.55	17.11	354.072		
2,400.00	2,356.26	2,409.37	2,409.25	10.23	8.23	122.73	4,996.89	3,133.30	6,073.22	6,055.29	17.93	338.772		
2,500.00	2,451.43	2,500.00	2,499.88	10.84	8.55	122.95	4,997.02	3,132.47	6,090.05	6,071.27	18.78	324.279		
2,600.00	2,546.59	2,603.12	2,603.00	11.46	8.91	123.19	4,997.21	3,131.45	6,106.96	6,087.28	19.68	310.288		
2,700.00	2,641.76	2,699.00	2,698.87	12.09	9.25	123.42	4,997.26	3,130.48	6,123.87	6,103.31	20.56	297.857		
2,800.00	2,736.92	2,786.14	2,786.00	12.72	9.55	123.62	4,997.36	3,129.64	6,140.93	6,119.52	21.41	286.846		
2,900.00	2,832.09	2,966.53	2,966.37	13.35	10.18	124.04	4,996.95	3,126.68	6,157.42	6,134.83	22.59	272.518		
3,000.00	2,927.25	3,062.09	3,061.91	13.99	10.52	124.26	4,995.98	3,124.97	6,173.35	6,149.87	23.48	262.946		
3,100.00	3,022.42	3,133.56	3,133.37	14.63	10.77	124.42	4,995.31	3,123.88	6,189.60	6,165.32	24.27	254.982		
3,200.00	3,117.58	3,200.00	3,199.80	15.27	11.00	124.58	4,994.89	3,123.20	6,206.42	6,181.37	25.05	247.731		
3,300.00	3,212.75	3,311.87	3,311.66	15.91	11.39	124.84	4,994.19	3,122.19	6,223.44	6,197.45	26.00	239.404		
3,400.00	3,307.91	3,400.00	3,399.79	16.56	11.70	125.04	4,993.64	3,121.18	6,240.43	6,213.58	26.85	232.398		
3,500.00	3,403.08	3,479.44	3,479.22	17.20	11.98	125.22	4,993.36	3,120.25	6,257.69	6,230.01	27.68	226.097		
3,600.00	3,498.24	3,563.53	3,563.31	17.85	12.27	125.41	4,993.28	3,119.35	6,275.29	6,246.78	28.52	220.047		
3,700.00	3,593.41	3,652.19	3,651.96	18.50	12.58	125.61	4,993.23	3,118.55	6,293.12	6,263.74	29.37	214.236		
3,800.00	3,688.57	3,741.78	3,741.55	19.15	12.90	125.81	4,993.23	3,117.81	6,311.12	6,280.89	30.23	208.743		
3,900.00	3,783.74	3,827.81	3,827.58	19.81	13.20	126.01	4,993.30	3,117.15	6,329.32	6,298.24	31.08	203.652		
4,000.00	3,878.90	3,900.00	3,899.77	20.46	13.45	126.17	4,993.53	3,116.62	6,347.81	6,315.94	31.87	199.168		
4,100.00	3,974.07	3,967.82	3,967.59	21.11	13.68	126.32	4,993.99	3,116.25	6,366.77	6,334.12	32.65	195.027		
4,200.00	4,069.23	4,043.09	4,042.85	21.77	13.95	126.48	4,994.81	3,116.07	6,386.28	6,352.83	33.45	190.946		
4,300.00	4,164.40	4,149.94	4,149.69	22.42	14.32	126.71	4,996.08	3,115.80	6,405.96	6,371.60	34.36	186.423		
4,400.00	4,259.56	4,400.50	4,400.24	23.08	15.19	127.26	4,995.40	3,114.14	6,424.35	6,388.54	35.81	179.386		
4,500.00	4,354.73	4,524.76	4,524.47	23.74	15.63	127.54	4,993.08	3,113.02	6,441.55	6,404.76	36.79	175.075		
4,600.00	4,449.89	4,659.50	4,659.15	24.39	16.10	127.85	4,989.38	3,112.01	6,458.28	6,420.47	37.81	170.813		
4,700.00	4,545.06	4,753.73	4,753.32	25.05	16.43	128.08	4,985.93	3,111.84	6,474.79	6,436.11	38.68	167.408		
4,800.00	4,640.22	4,825.96	4,825.50	25.71	16.69	128.25	4,983.29	3,111.95	6,491.61	6,452.15	39.46	164.500		
4,900.00	4,735.39	4,900.00	4,899.50	26.37	16.95	128.42	4,980.95	3,112.23	6,509.00	6,468.75	40.25	161.701		
5,000.00	4,830.55	4,957.84	4,957.32	27.03	17.15	128.56	4,979.36	3,112.57	6,526.90	6,485.92	40.98	159.264		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 41-9 (GYRO) - GYRO SURVEY - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,925.72	5,030.60	5,030.05	27.69	17.41	128.73	4,977.48	3,113.19	6,545.24	6,503.48	41.76	156.725		
5,200.00	5,020.88	5,104.91	5,104.34	28.35	17.67	128.90	4,975.83	3,113.92	6,564.00	6,521.46	42.55	154.276		
5,300.00	5,116.05	5,200.00	5,199.41	29.01	18.00	129.12	4,974.03	3,114.67	6,583.00	6,539.59	43.41	151.656		
5,400.00	5,211.21	5,288.87	5,288.27	29.67	18.31	129.32	4,972.51	3,115.24	6,602.13	6,557.88	44.24	149.223		
5,500.00	5,306.38	5,387.82	5,387.19	30.33	18.66	129.54	4,970.72	3,116.05	6,621.38	6,576.27	45.12	146.766		
5,600.00	5,401.54	5,504.40	5,503.75	30.99	19.06	129.80	4,968.52	3,116.75	6,640.55	6,594.50	46.05	144.195		
5,700.00	5,496.71	5,627.10	5,626.44	31.65	19.49	125.76	4,966.67	3,116.25	6,659.31	6,612.29	47.01	141.647		
5,800.00	5,591.13	5,700.00	5,699.32	32.30	19.75	98.25	4,966.27	3,114.87	6,669.75	6,621.90	47.85	139.403		
5,900.00	5,682.22	5,764.92	5,764.23	32.92	19.97	81.75	4,966.11	3,113.79	6,667.43	6,618.71	48.72	136.852		
6,000.00	5,767.23	5,800.00	5,799.31	33.50	20.10	73.25	4,965.90	3,113.69	6,652.83	6,603.30	49.53	134.308		
6,100.00	5,843.56	5,850.32	5,849.62	34.04	20.27	69.67	4,965.41	3,114.17	6,626.40	6,575.95	50.45	131.349		
6,200.00	5,908.90	5,900.00	5,899.29	34.53	20.45	69.34	4,964.69	3,115.35	6,589.05	6,537.66	51.39	128.206		
6,300.00	5,961.25	5,900.00	5,899.29	34.99	20.45	71.15	4,964.69	3,115.35	6,541.84	6,489.67	52.17	125.400		
6,400.00	5,999.04	5,900.00	5,899.29	35.42	20.45	75.16	4,964.69	3,115.35	6,486.36	6,433.41	52.95	122.499		
6,500.00	6,021.11	5,900.00	5,899.29	35.83	20.45	81.32	4,964.69	3,115.35	6,424.11	6,370.38	53.73	119.561		
6,600.00	6,027.00	5,900.00	5,899.29	36.24	20.45	88.12	4,964.69	3,115.35	6,356.86	6,302.36	54.50	116.641		
6,700.00	6,027.00	5,900.00	5,899.29	36.68	20.45	88.12	4,964.69	3,115.35	6,288.73	6,233.45	55.28	113.756		
6,800.00	6,027.00	5,900.00	5,899.29	37.20	20.45	88.12	4,964.69	3,115.35	6,221.46	6,165.36	56.10	110.890		
6,900.00	6,027.00	5,900.00	5,899.29	37.80	20.45	88.12	4,964.69	3,115.35	6,155.08	6,098.12	56.97	108.049		
7,000.00	6,027.00	5,900.00	5,899.29	38.47	20.45	88.12	4,964.69	3,115.35	6,089.62	6,031.76	57.86	105.239		
7,100.00	6,027.00	5,900.00	5,899.29	39.21	20.45	88.12	4,964.69	3,115.35	6,025.11	5,966.31	58.80	102.465		
7,200.00	6,027.00	5,900.00	5,899.29	40.02	20.45	88.12	4,964.69	3,115.35	5,961.58	5,901.80	59.78	99.732		
7,300.00	6,027.00	5,900.00	5,899.29	40.89	20.45	88.12	4,964.69	3,115.35	5,899.06	5,838.27	60.79	97.044		
7,400.00	6,027.00	5,900.00	5,899.29	41.83	20.45	88.12	4,964.69	3,115.35	5,837.58	5,775.74	61.84	94.406		
7,500.00	6,027.00	5,900.00	5,899.29	42.83	20.45	88.12	4,964.69	3,115.35	5,777.18	5,714.26	62.92	91.820		
7,600.00	6,027.00	5,900.00	5,899.29	43.88	20.45	88.12	4,964.69	3,115.35	5,717.89	5,653.85	64.04	89.291		
7,700.00	6,027.00	5,900.00	5,899.29	44.99	20.45	88.12	4,964.69	3,115.35	5,659.74	5,594.55	65.19	86.821		
7,800.00	6,027.00	5,900.00	5,899.29	46.14	20.45	88.12	4,964.69	3,115.35	5,602.78	5,536.40	66.37	84.412		
7,900.00	6,027.00	5,900.00	5,899.29	47.33	20.45	88.12	4,964.69	3,115.35	5,547.03	5,479.44	67.59	82.067		
8,000.00	6,027.00	5,900.00	5,899.29	48.57	20.45	88.12	4,964.69	3,115.35	5,492.54	5,423.70	68.84	79.786		
8,100.00	6,027.00	5,900.00	5,899.29	49.84	20.45	88.12	4,964.69	3,115.35	5,439.35	5,369.23	70.12	77.573		
8,200.00	6,027.00	5,900.00	5,899.29	51.15	20.45	88.12	4,964.69	3,115.35	5,387.48	5,316.05	71.43	75.426		
8,300.00	6,027.00	5,900.00	5,899.29	52.48	20.45	88.12	4,964.69	3,115.35	5,336.98	5,264.22	72.76	73.348		
8,400.00	6,027.00	5,900.00	5,899.29	53.85	20.45	88.12	4,964.69	3,115.35	5,287.89	5,213.77	74.12	71.338		
8,500.00	6,027.00	5,900.00	5,899.29	55.24	20.45	88.12	4,964.69	3,115.35	5,240.26	5,164.75	75.51	69.398		
8,600.00	6,027.00	5,900.00	5,899.29	56.65	20.45	88.12	4,964.69	3,115.35	5,194.11	5,117.19	76.92	67.526		
8,700.00	6,027.00	5,900.00	5,899.29	58.08	20.45	88.12	4,964.69	3,115.35	5,149.48	5,071.13	78.35	65.724		
8,800.00	6,027.00	5,900.00	5,899.29	59.54	20.45	88.12	4,964.69	3,115.35	5,106.43	5,026.63	79.80	63.990		
8,900.00	6,027.00	5,900.00	5,899.29	61.01	20.45	88.12	4,964.69	3,115.35	5,064.99	4,983.72	81.27	62.324		
9,000.00	6,027.00	5,900.00	5,899.29	62.50	20.45	88.12	4,964.69	3,115.35	5,025.19	4,942.44	82.75	60.726		
9,100.00	6,027.00	5,900.00	5,899.29	64.01	20.45	88.12	4,964.69	3,115.35	4,987.08	4,902.83	84.25	59.195		
9,200.00	6,027.00	5,900.00	5,899.29	65.53	20.45	88.12	4,964.69	3,115.35	4,950.70	4,864.94	85.76	57.730		
9,300.00	6,027.00	5,900.00	5,899.29	67.06	20.45	88.12	4,964.69	3,115.35	4,916.08	4,828.81	87.27	56.330		
9,400.00	6,027.00	5,900.00	5,899.29	68.61	20.45	88.12	4,964.69	3,115.35	4,883.27	4,794.48	88.80	54.995		
9,500.00	6,027.00	5,900.00	5,899.29	70.17	20.45	88.12	4,964.69	3,115.35	4,852.30	4,761.98	90.32	53.723		
9,600.00	6,027.00	5,900.00	5,899.29	71.73	20.45	88.12	4,964.69	3,115.35	4,823.20	4,731.35	91.85	52.512		
9,700.00	6,027.00	5,900.00	5,899.29	73.31	20.45	88.12	4,964.69	3,115.35	4,796.01	4,702.63	93.37	51.363		
9,800.00	6,027.00	5,900.00	5,899.29	74.90	20.45	88.12	4,964.69	3,115.35	4,770.76	4,675.86	94.90	50.273		
9,900.00	6,027.00	5,900.00	5,899.29	76.50	20.45	88.12	4,964.69	3,115.35	4,747.48	4,651.07	96.41	49.242		
10,000.00	6,027.00	5,900.00	5,899.29	78.10	20.45	88.12	4,964.69	3,115.35	4,726.21	4,628.29	97.91	48.269		
10,100.00	6,027.00	5,900.00	5,899.29	79.71	20.45	88.12	4,964.69	3,115.35	4,706.96	4,607.56	99.41	47.351		
10,200.00	6,027.00	5,900.00	5,899.29	81.33	20.45	88.12	4,964.69	3,115.35	4,689.77	4,588.89	100.88	46.488		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 41-9 (GYRO) - GYRO SURVEY - GYRO SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
10,300.00	6,027.00	5,900.00	5,899.29	82.96	20.45	88.12	4,964.69	3,115.35	4,674.66	4,572.32	102.34	45.678		
10,400.00	6,027.00	5,900.00	5,899.29	84.59	20.45	88.12	4,964.69	3,115.35	4,661.64	4,557.86	103.78	44.920		
10,500.00	6,027.00	5,900.00	5,899.29	86.23	20.45	88.12	4,964.69	3,115.35	4,650.73	4,545.54	105.19	44.214		
10,600.00	6,027.00	5,900.00	5,899.29	87.87	20.45	88.12	4,964.69	3,115.35	4,641.96	4,535.38	106.57	43.557		
10,700.00	6,027.00	5,900.00	5,899.29	89.52	20.45	88.12	4,964.69	3,115.35	4,635.32	4,527.39	107.93	42.948		
10,800.00	6,027.00	5,900.00	5,899.29	91.17	20.45	88.12	4,964.69	3,115.35	4,630.84	4,521.58	109.25	42.386		
10,900.00	6,027.00	5,900.00	5,899.29	92.83	20.45	88.12	4,964.69	3,115.35	4,628.51	4,517.97	110.55	41.870		
10,957.74	6,027.00	5,900.00	5,899.29	93.79	20.45	88.12	4,964.69	3,115.35	4,628.15	4,516.88	111.28	41.592 CC		
11,000.00	6,027.00	5,900.00	5,899.29	94.49	20.45	88.12	4,964.69	3,115.35	4,628.34	4,516.54	111.80	41.398 ES		
11,100.00	6,027.00	5,900.00	5,899.29	96.16	20.45	88.12	4,964.69	3,115.35	4,630.34	4,517.32	113.02	40.970		
11,200.00	6,027.00	5,900.00	5,899.29	97.83	20.45	88.12	4,964.69	3,115.35	4,634.49	4,520.29	114.20	40.584		
11,300.00	6,027.00	5,900.00	5,899.29	99.50	20.45	88.12	4,964.69	3,115.35	4,640.79	4,525.46	115.33	40.238		
11,400.00	6,027.00	5,900.00	5,899.29	101.18	20.45	88.12	4,964.69	3,115.35	4,649.23	4,532.81	116.43	39.933		
11,500.00	6,027.00	5,900.00	5,899.29	102.86	20.45	88.12	4,964.69	3,115.35	4,659.81	4,542.33	117.48	39.666		
11,600.00	6,027.00	5,900.00	5,899.29	104.54	20.45	88.12	4,964.69	3,115.35	4,672.50	4,554.02	118.48	39.436		
11,700.00	6,027.00	5,900.00	5,899.29	106.23	20.45	88.12	4,964.69	3,115.35	4,687.29	4,567.85	119.44	39.243		
11,800.00	6,027.00	5,900.00	5,899.29	107.92	20.45	88.12	4,964.69	3,115.35	4,704.17	4,583.81	120.36	39.086		
11,900.00	6,027.00	5,900.00	5,899.29	109.61	20.45	88.12	4,964.69	3,115.35	4,723.09	4,601.87	121.22	38.962		
12,000.00	6,027.00	5,900.00	5,899.29	111.31	20.45	88.12	4,964.69	3,115.35	4,744.06	4,622.01	122.04	38.872		
12,100.00	6,027.00	5,900.00	5,899.29	113.00	20.45	88.12	4,964.69	3,115.35	4,767.02	4,644.21	122.82	38.814		
12,200.00	6,027.00	5,900.00	5,899.29	114.71	20.45	88.12	4,964.69	3,115.35	4,791.97	4,668.42	123.55	38.787 SF		
12,300.00	6,027.00	5,900.00	5,899.29	116.41	20.45	88.12	4,964.69	3,115.35	4,818.86	4,694.63	124.23	38.791		
12,400.00	6,027.00	5,900.00	5,899.29	118.11	20.45	88.12	4,964.69	3,115.35	4,847.67	4,722.80	124.86	38.824		
12,500.00	6,027.00	5,900.00	5,899.29	119.82	20.45	88.12	4,964.69	3,115.35	4,878.35	4,752.90	125.46	38.885		
12,600.00	6,027.00	5,900.00	5,899.29	121.53	20.45	88.12	4,964.69	3,115.35	4,910.88	4,784.88	126.00	38.974		
12,700.00	6,027.00	5,900.00	5,899.29	123.24	20.45	88.12	4,964.69	3,115.35	4,945.22	4,818.71	126.51	39.090		
12,800.00	6,027.00	5,900.00	5,899.29	124.95	20.45	88.12	4,964.69	3,115.35	4,981.33	4,854.36	126.97	39.232		
12,900.00	6,027.00	5,900.00	5,899.29	126.66	20.45	88.12	4,964.69	3,115.35	5,019.18	4,891.78	127.39	39.399		
13,000.00	6,027.00	5,900.00	5,899.29	128.38	20.45	88.12	4,964.69	3,115.35	5,058.71	4,930.94	127.78	39.590		
13,100.00	6,027.00	5,900.00	5,899.29	130.10	20.45	88.12	4,964.69	3,115.35	5,099.91	4,971.78	128.12	39.805		
13,200.00	6,027.00	5,900.00	5,899.29	131.82	20.45	88.12	4,964.69	3,115.35	5,142.71	5,014.28	128.43	40.043		
13,300.00	6,027.00	5,900.00	5,899.29	133.54	20.45	88.12	4,964.69	3,115.35	5,187.09	5,058.39	128.70	40.302		
13,400.00	6,027.00	5,900.00	5,899.29	135.26	20.45	88.12	4,964.69	3,115.35	5,233.01	5,104.07	128.94	40.584		
13,500.00	6,027.00	5,900.00	5,899.29	136.98	20.45	88.12	4,964.69	3,115.35	5,280.42	5,151.27	129.15	40.886		
13,600.00	6,027.00	5,900.00	5,899.29	138.71	20.45	88.12	4,964.69	3,115.35	5,329.29	5,199.96	129.33	41.208		
13,700.00	6,027.00	5,900.00	5,899.29	140.43	20.45	88.12	4,964.69	3,115.35	5,379.57	5,250.10	129.47	41.550		
13,800.00	6,027.00	5,900.00	5,899.29	142.16	20.45	88.12	4,964.69	3,115.35	5,431.22	5,301.63	129.59	41.911		
13,900.00	6,027.00	5,900.00	5,899.29	143.89	20.45	88.12	4,964.69	3,115.35	5,484.22	5,354.54	129.68	42.290		
14,000.00	6,027.00	5,900.00	5,899.29	145.62	20.45	88.12	4,964.69	3,115.35	5,538.51	5,408.76	129.75	42.687		
14,100.00	6,027.00	5,900.00	5,899.29	147.35	20.45	88.12	4,964.69	3,115.35	5,594.06	5,464.27	129.79	43.101		
14,200.00	6,027.00	5,900.00	5,899.29	149.08	20.45	88.12	4,964.69	3,115.35	5,650.84	5,521.03	129.81	43.531		
14,300.00	6,027.00	5,900.00	5,899.29	150.81	20.45	88.12	4,964.69	3,115.35	5,708.81	5,579.00	129.81	43.978		
14,400.00	6,027.00	5,900.00	5,899.29	152.54	20.45	88.12	4,964.69	3,115.35	5,767.92	5,638.13	129.79	44.441		
14,500.00	6,027.00	5,900.00	5,899.29	154.28	20.45	88.12	4,964.69	3,115.35	5,828.15	5,698.40	129.75	44.918		
14,600.00	6,027.00	5,900.00	5,899.29	156.01	20.45	88.12	4,964.69	3,115.35	5,889.47	5,759.77	129.69	45.410		
14,700.00	6,027.00	5,900.00	5,899.29	157.75	20.45	88.12	4,964.69	3,115.35	5,951.83	5,822.21	129.62	45.917		
14,800.00	6,027.00	5,900.00	5,899.29	159.49	20.45	88.12	4,964.69	3,115.35	6,015.21	5,885.67	129.53	46.437		
14,900.00	6,027.00	5,900.00	5,899.29	161.22	20.45	88.12	4,964.69	3,115.35	6,079.57	5,950.14	129.43	46.971		
15,000.00	6,027.00	5,900.00	5,899.29	162.96	20.45	88.12	4,964.69	3,115.35	6,144.89	6,015.57	129.32	47.518		
15,100.00	6,027.00	5,900.00	5,899.29	164.70	20.45	88.12	4,964.69	3,115.35	6,211.12	6,081.93	129.19	48.077		
15,200.00	6,027.00	5,900.00	5,899.29	166.44	20.45	88.12	4,964.69	3,115.35	6,278.26	6,149.20	129.05	48.648		
15,300.00	6,027.00	5,900.00	5,899.29	168.18	20.45	88.12	4,964.69	3,115.35	6,346.26	6,217.35	128.91	49.232		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 9-T5N-R61W - ABND VERT PRONGHORN 41-9 (GYRO) - GYRO SURVEY - GYRO SURVEY												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-GYRO-MWD												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.00	6,027.00	5,900.00	5,899.29	169.93	20.45	88.12	4,964.69	3,115.35	6,415.09	6,286.34	128.75	49.826	
15,500.00	6,027.00	5,900.00	5,899.29	171.67	20.45	88.12	4,964.69	3,115.35	6,484.74	6,356.16	128.58	50.432	
15,600.00	6,027.00	5,900.00	5,899.29	173.41	20.45	88.12	4,964.69	3,115.35	6,555.18	6,426.77	128.41	51.049	
15,700.00	6,027.00	5,900.00	5,899.29	175.15	20.45	88.12	4,964.69	3,115.35	6,626.37	6,498.14	128.23	51.676	
15,800.00	6,027.00	5,900.00	5,899.29	176.90	20.45	88.12	4,964.69	3,115.35	6,698.30	6,570.26	128.04	52.313	
15,900.00	6,027.00	5,900.00	5,899.29	178.64	20.45	88.12	4,964.69	3,115.35	6,770.94	6,643.09	127.85	52.960	
16,000.00	6,027.00	5,900.00	5,899.29	180.39	20.45	88.12	4,964.69	3,115.35	6,844.28	6,716.62	127.65	53.616	
16,100.00	6,027.00	5,900.00	5,899.29	182.13	20.45	88.12	4,964.69	3,115.35	6,918.28	6,790.83	127.45	54.282	
16,200.00	6,027.00	5,900.00	5,899.29	183.88	20.45	88.12	4,964.69	3,115.35	6,992.93	6,865.68	127.24	54.957	
16,300.00	6,027.00	5,900.00	5,899.29	185.63	20.45	88.12	4,964.69	3,115.35	7,068.20	6,941.17	127.03	55.640	
16,400.00	6,027.00	5,900.00	5,899.29	187.38	20.45	88.12	4,964.69	3,115.35	7,144.08	7,017.26	126.82	56.332	
16,500.00	6,027.00	5,900.00	5,899.29	189.12	20.45	88.12	4,964.69	3,115.35	7,220.55	7,093.95	126.61	57.032	
16,600.00	6,027.00	5,900.00	5,899.29	190.87	20.45	88.12	4,964.69	3,115.35	7,297.59	7,171.20	126.39	57.740	
16,700.00	6,027.00	5,900.00	5,899.29	192.62	20.45	88.12	4,964.69	3,115.35	7,375.18	7,249.01	126.17	58.456	
16,795.97	6,027.00	5,900.00	5,899.29	194.30	20.45	88.12	4,964.69	3,115.35	7,450.14	7,324.19	125.95	59.149	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	24.00	24.00	0.00	0.56	32.00	5,013.14	3,132.39	5,911.29					
100.00	100.00	124.00	124.00	0.27	2.85	32.00	5,013.14	3,132.39	5,911.29	5,908.18	3.11	1,897.778		
200.00	200.00	224.00	224.00	0.63	4.93	32.00	5,013.14	3,132.39	5,911.29	5,905.74	5.56	1,064.021		
300.00	300.00	324.00	324.00	0.99	6.97	32.00	5,013.14	3,132.39	5,911.29	5,903.34	7.95	743.325		
400.00	400.00	424.00	424.00	1.34	8.99	32.00	5,013.14	3,132.39	5,911.29	5,900.96	10.34	571.876		
500.00	500.00	524.00	524.00	1.70	11.01	32.00	5,013.14	3,132.39	5,911.29	5,898.58	12.72	464.895		
600.00	600.00	624.00	624.00	2.06	13.03	32.00	5,013.14	3,132.39	5,911.29	5,896.20	15.09	391.707		
700.00	700.00	724.00	724.00	2.42	15.05	32.00	5,013.14	3,132.39	5,911.29	5,893.83	17.47	338.462		
800.00	800.00	824.00	824.00	2.78	17.06	32.00	5,013.14	3,132.39	5,911.29	5,891.46	19.84	297.977		
900.00	900.00	924.00	924.00	3.14	19.07	32.00	5,013.14	3,132.39	5,911.29	5,889.08	22.21	266.151		
1,000.00	999.98	1,023.98	1,023.98	3.49	21.09	121.25	5,013.14	3,132.39	5,912.20	5,887.63	24.57	240.593		
1,100.00	1,099.84	1,123.84	1,123.84	3.83	23.10	121.25	5,013.14	3,132.39	5,914.92	5,887.99	26.93	219.643		
1,200.00	1,199.45	1,223.45	1,223.45	4.19	25.10	121.24	5,013.14	3,132.39	5,919.45	5,890.17	29.29	202.119		
1,300.00	1,298.70	1,322.70	1,322.70	4.55	27.10	121.24	5,013.14	3,132.39	5,925.81	5,894.16	31.65	187.255		
1,400.00	1,397.47	1,421.47	1,421.47	4.94	29.09	121.22	5,013.14	3,132.39	5,933.99	5,899.99	34.01	174.496		
1,500.00	1,495.62	1,519.62	1,519.62	5.34	31.06	121.21	5,013.14	3,132.39	5,944.02	5,907.65	36.37	163.428		
1,600.00	1,593.06	1,617.06	1,617.06	5.78	33.02	121.18	5,013.14	3,132.39	5,955.89	5,917.15	38.74	153.736		
1,700.00	1,689.64	1,713.64	1,713.64	6.24	34.96	121.15	5,013.14	3,132.39	5,969.63	5,928.51	41.12	145.180		
1,800.00	1,785.27	1,809.27	1,809.27	6.75	36.89	121.13	5,013.14	3,132.39	5,985.24	5,941.73	43.51	137.569		
1,900.00	1,880.44	1,904.44	1,904.44	7.30	38.80	121.37	5,013.14	3,132.39	6,001.76	5,955.85	45.91	130.738		
2,000.00	1,975.60	1,999.60	1,999.60	7.86	40.72	121.61	5,013.14	3,132.39	6,018.39	5,970.06	48.32	124.551		
2,100.00	2,070.77	2,094.77	2,094.77	8.43	42.63	121.85	5,013.14	3,132.39	6,035.12	5,984.38	50.75	118.928		
2,200.00	2,165.93	2,189.93	2,189.93	9.02	44.54	122.09	5,013.14	3,132.39	6,051.97	5,998.79	53.18	113.802		
2,300.00	2,261.10	2,285.10	2,285.10	9.62	46.46	122.33	5,013.14	3,132.39	6,068.93	6,013.31	55.62	109.113		
2,400.00	2,356.26	2,380.26	2,380.26	10.23	48.37	122.57	5,013.14	3,132.39	6,085.99	6,027.93	58.07	104.810		
2,500.00	2,451.43	2,475.43	2,475.43	10.84	50.29	122.80	5,013.14	3,132.39	6,103.17	6,042.65	60.52	100.849		
2,600.00	2,546.59	2,570.59	2,570.59	11.46	52.20	123.03	5,013.14	3,132.39	6,120.44	6,057.47	62.97	97.194		
2,700.00	2,641.76	2,665.76	2,665.76	12.09	54.11	123.27	5,013.14	3,132.39	6,137.83	6,072.40	65.43	93.810		
2,800.00	2,736.92	2,760.92	2,760.92	12.72	56.03	123.50	5,013.14	3,132.39	6,155.31	6,087.43	67.89	90.670		
2,900.00	2,832.09	2,856.09	2,856.09	13.35	57.94	123.73	5,013.14	3,132.39	6,172.90	6,102.56	70.35	87.749		
3,000.00	2,927.25	2,951.25	2,951.25	13.99	59.86	123.96	5,013.14	3,132.39	6,190.60	6,117.79	72.81	85.026		
3,100.00	3,022.42	3,046.42	3,046.42	14.63	61.77	124.18	5,013.14	3,132.39	6,208.39	6,133.12	75.27	82.482		
3,200.00	3,117.58	3,141.58	3,141.58	15.27	63.68	124.41	5,013.14	3,132.39	6,226.28	6,148.55	77.73	80.099		
3,300.00	3,212.75	3,236.75	3,236.75	15.91	65.60	124.63	5,013.14	3,132.39	6,244.28	6,164.09	80.19	77.864		
3,400.00	3,307.91	3,331.91	3,331.91	16.56	67.51	124.86	5,013.14	3,132.39	6,262.37	6,179.72	82.66	75.764		
3,500.00	3,403.08	3,427.08	3,427.08	17.20	69.43	125.08	5,013.14	3,132.39	6,280.57	6,195.45	85.12	73.786		
3,600.00	3,498.24	3,522.24	3,522.24	17.85	71.34	125.30	5,013.14	3,132.39	6,298.85	6,211.27	87.58	71.921		
3,700.00	3,593.41	3,617.41	3,617.41	18.50	73.25	125.52	5,013.14	3,132.39	6,317.24	6,227.20	90.04	70.160		
3,800.00	3,688.57	3,712.57	3,712.57	19.15	75.17	125.74	5,013.14	3,132.39	6,335.72	6,243.22	92.50	68.493		
3,900.00	3,783.74	3,807.74	3,807.74	19.81	77.08	125.96	5,013.14	3,132.39	6,354.30	6,259.34	94.96	66.915		
4,000.00	3,878.90	3,902.90	3,902.90	20.46	79.00	126.18	5,013.14	3,132.39	6,372.97	6,275.55	97.42	65.418		
4,100.00	3,974.07	3,998.07	3,998.07	21.11	80.91	126.39	5,013.14	3,132.39	6,391.73	6,291.85	99.88	63.996		
4,200.00	4,069.23	4,093.23	4,093.23	21.77	82.82	126.61	5,013.14	3,132.39	6,410.59	6,308.25	102.33	62.643		
4,300.00	4,164.40	4,188.40	4,188.40	22.42	84.74	126.82	5,013.14	3,132.39	6,429.53	6,324.74	104.79	61.356		
4,400.00	4,259.56	4,283.56	4,283.56	23.08	86.65	127.03	5,013.14	3,132.39	6,448.57	6,341.32	107.25	60.129		
4,500.00	4,354.73	4,378.73	4,378.73	23.74	88.56	127.24	5,013.14	3,132.39	6,467.70	6,358.00	109.70	58.959		
4,600.00	4,449.89	4,473.89	4,473.89	24.39	90.48	127.45	5,013.14	3,132.39	6,486.91	6,374.76	112.15	57.841		
4,700.00	4,545.06	4,569.06	4,569.06	25.05	92.39	127.66	5,013.14	3,132.39	6,506.22	6,391.62	114.60	56.772		
4,800.00	4,640.22	4,664.22	4,664.22	25.71	94.31	127.87	5,013.14	3,132.39	6,525.61	6,408.56	117.05	55.749		
4,900.00	4,735.39	4,759.39	4,759.39	26.37	96.22	128.07	5,013.14	3,132.39	6,545.09	6,425.59	119.50	54.770		
5,000.00	4,830.55	4,854.55	4,854.55	27.03	98.13	128.28	5,013.14	3,132.39	6,564.65	6,442.70	121.95	53.831		
5,100.00	4,925.72	4,949.72	4,949.72	27.69	100.05	128.48	5,013.14	3,132.39	6,584.30	6,459.91	124.40	52.931		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 41-9 (GYRO) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	5,044.88	5,044.88	28.35	101.96	128.68	5,013.14	3,132.39	6,604.04	6,477.20	126.84	52.066		
5,300.00	5,116.05	5,140.05	5,140.05	29.01	103.87	128.88	5,013.14	3,132.39	6,623.86	6,494.57	129.28	51.235		
5,400.00	5,211.21	5,235.21	5,235.21	29.67	105.79	129.08	5,013.14	3,132.39	6,643.76	6,512.03	131.73	50.436		
5,500.00	5,306.38	5,330.38	5,330.38	30.33	107.70	129.28	5,013.14	3,132.39	6,663.74	6,529.57	134.17	49.667		
5,600.00	5,401.54	5,425.54	5,425.54	30.99	109.62	129.48	5,013.14	3,132.39	6,683.80	6,547.20	136.61	48.927		
5,700.00	5,496.71	5,520.71	5,520.71	31.65	111.53	125.37	5,013.14	3,132.39	6,703.83	6,564.79	139.05	48.213		
5,800.00	5,591.13	5,615.13	5,615.13	32.30	113.43	97.84	5,013.14	3,132.39	6,715.71	6,574.18	141.53	47.452		
5,900.00	5,682.22	5,706.22	5,706.22	32.92	115.26	81.39	5,013.14	3,132.39	6,714.41	6,570.39	144.01	46.623		
6,000.00	5,767.23	5,791.23	5,791.23	33.50	116.97	73.08	5,013.14	3,132.39	6,700.15	6,553.71	146.43	45.756		
6,100.00	5,843.56	5,867.56	5,867.56	34.04	118.51	69.65	5,013.14	3,132.39	6,673.56	6,524.84	148.72	44.874		
6,200.00	5,908.90	5,932.90	5,932.90	34.53	119.82	69.45	5,013.14	3,132.39	6,635.64	6,484.83	150.81	43.999		
6,300.00	5,961.25	5,985.25	5,985.25	34.99	120.87	71.78	5,013.14	3,132.39	6,587.72	6,435.05	152.67	43.151		
6,400.00	5,999.04	6,023.04	6,023.04	35.42	121.63	76.33	5,013.14	3,132.39	6,531.38	6,377.15	154.23	42.349		
6,500.00	6,021.11	6,045.11	6,045.11	35.83	122.08	82.95	5,013.14	3,132.39	6,468.39	6,312.92	155.47	41.606		
6,600.00	6,027.00	6,051.00	6,051.00	36.24	122.19	90.00	5,013.14	3,132.39	6,400.72	6,244.36	156.36	40.935		
6,700.00	6,027.00	6,051.00	6,051.00	36.68	122.19	90.00	5,013.14	3,132.39	6,332.30	6,175.15	157.15	40.295		
6,800.00	6,027.00	6,051.00	6,051.00	37.20	122.19	90.00	5,013.14	3,132.39	6,264.72	6,106.75	157.97	39.656		
6,900.00	6,027.00	6,051.00	6,051.00	37.80	122.19	90.00	5,013.14	3,132.39	6,198.03	6,039.19	158.84	39.021		
7,000.00	6,027.00	6,051.00	6,051.00	38.47	122.19	90.00	5,013.14	3,132.39	6,132.23	5,972.49	159.74	38.389		
7,100.00	6,027.00	6,051.00	6,051.00	39.21	122.19	90.00	5,013.14	3,132.39	6,067.38	5,906.69	160.68	37.760		
7,200.00	6,027.00	6,051.00	6,051.00	40.02	122.19	90.00	5,013.14	3,132.39	6,003.48	5,841.82	161.66	37.137		
7,300.00	6,027.00	6,051.00	6,051.00	40.89	122.19	90.00	5,013.14	3,132.39	5,940.59	5,777.91	162.67	36.519		
7,400.00	6,027.00	6,051.00	6,051.00	41.83	122.19	90.00	5,013.14	3,132.39	5,878.72	5,715.00	163.72	35.906		
7,500.00	6,027.00	6,051.00	6,051.00	42.83	122.19	90.00	5,013.14	3,132.39	5,817.91	5,653.10	164.81	35.301		
7,600.00	6,027.00	6,051.00	6,051.00	43.88	122.19	90.00	5,013.14	3,132.39	5,758.20	5,592.27	165.93	34.703		
7,700.00	6,027.00	6,051.00	6,051.00	44.99	122.19	90.00	5,013.14	3,132.39	5,699.62	5,532.53	167.08	34.112		
7,800.00	6,027.00	6,051.00	6,051.00	46.14	122.19	90.00	5,013.14	3,132.39	5,642.20	5,473.92	168.27	33.530		
7,900.00	6,027.00	6,051.00	6,051.00	47.33	122.19	90.00	5,013.14	3,132.39	5,585.98	5,416.48	169.49	32.957		
8,000.00	6,027.00	6,051.00	6,051.00	48.57	122.19	90.00	5,013.14	3,132.39	5,530.99	5,360.25	170.74	32.393		
8,100.00	6,027.00	6,051.00	6,051.00	49.84	122.19	90.00	5,013.14	3,132.39	5,477.29	5,305.26	172.03	31.840		
8,200.00	6,027.00	6,051.00	6,051.00	51.15	122.19	90.00	5,013.14	3,132.39	5,424.89	5,251.55	173.34	31.297		
8,300.00	6,027.00	6,051.00	6,051.00	52.48	122.19	90.00	5,013.14	3,132.39	5,373.84	5,199.17	174.68	30.765		
8,400.00	6,027.00	6,051.00	6,051.00	53.85	122.19	90.00	5,013.14	3,132.39	5,324.19	5,148.15	176.04	30.244		
8,500.00	6,027.00	6,051.00	6,051.00	55.24	122.19	90.00	5,013.14	3,132.39	5,275.96	5,098.53	177.43	29.735		
8,600.00	6,027.00	6,051.00	6,051.00	56.65	122.19	90.00	5,013.14	3,132.39	5,229.19	5,050.35	178.84	29.239		
8,700.00	6,027.00	6,051.00	6,051.00	58.08	122.19	90.00	5,013.14	3,132.39	5,183.94	5,003.66	180.28	28.755		
8,800.00	6,027.00	6,051.00	6,051.00	59.54	122.19	90.00	5,013.14	3,132.39	5,140.23	4,958.50	181.73	28.284		
8,900.00	6,027.00	6,051.00	6,051.00	61.01	122.19	90.00	5,013.14	3,132.39	5,098.11	4,914.91	183.21	27.827		
9,000.00	6,027.00	6,051.00	6,051.00	62.50	122.19	90.00	5,013.14	3,132.39	5,057.62	4,872.93	184.70	27.384		
9,100.00	6,027.00	6,051.00	6,051.00	64.01	122.19	90.00	5,013.14	3,132.39	5,018.79	4,832.60	186.20	26.954		
9,200.00	6,027.00	6,051.00	6,051.00	65.53	122.19	90.00	5,013.14	3,132.39	4,981.67	4,793.96	187.71	26.539		
9,300.00	6,027.00	6,051.00	6,051.00	67.06	122.19	90.00	5,013.14	3,132.39	4,946.29	4,757.06	189.24	26.138		
9,400.00	6,027.00	6,051.00	6,051.00	68.61	122.19	90.00	5,013.14	3,132.39	4,912.70	4,721.93	190.77	25.752		
9,500.00	6,027.00	6,051.00	6,051.00	70.17	122.19	90.00	5,013.14	3,132.39	4,880.92	4,688.61	192.30	25.381		
9,600.00	6,027.00	6,051.00	6,051.00	71.73	122.19	90.00	5,013.14	3,132.39	4,850.99	4,657.15	193.84	25.025		
9,700.00	6,027.00	6,051.00	6,051.00	73.31	122.19	90.00	5,013.14	3,132.39	4,822.95	4,627.57	195.38	24.685		
9,800.00	6,027.00	6,051.00	6,051.00	74.90	122.19	90.00	5,013.14	3,132.39	4,796.84	4,599.92	196.91	24.360		
9,900.00	6,027.00	6,051.00	6,051.00	76.50	122.19	90.00	5,013.14	3,132.39	4,772.67	4,574.23	198.44	24.051		
10,000.00	6,027.00	6,051.00	6,051.00	78.10	122.19	90.00	5,013.14	3,132.39	4,750.49	4,550.53	199.96	23.757		
10,100.00	6,027.00	6,051.00	6,051.00	79.71	122.19	90.00	5,013.14	3,132.39	4,730.32	4,528.85	201.46	23.480		
10,200.00	6,027.00	6,051.00	6,051.00	81.33	122.19	90.00	5,013.14	3,132.39	4,712.18	4,509.23	202.96	23.218		
10,300.00	6,027.00	6,051.00	6,051.00	82.96	122.19	90.00	5,013.14	3,132.39	4,696.11	4,491.68	204.43	22.972		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - ABND VERT PRONGHORN 41-9 (GYRO) - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	6,051.00	6,051.00	84.59	122.19	90.00	5,013.14	3,132.39	4,682.12	4,476.23	205.88	22.742		
10,500.00	6,027.00	6,051.00	6,051.00	86.23	122.19	90.00	5,013.14	3,132.39	4,670.22	4,462.91	207.31	22.527		
10,600.00	6,027.00	6,051.00	6,051.00	87.87	122.19	90.00	5,013.14	3,132.39	4,660.44	4,451.73	208.72	22.329		
10,700.00	6,027.00	6,051.00	6,051.00	89.52	122.19	90.00	5,013.14	3,132.39	4,652.79	4,442.70	210.09	22.146		
10,800.00	6,027.00	6,051.00	6,051.00	91.17	122.19	90.00	5,013.14	3,132.39	4,647.28	4,435.84	211.44	21.979		
10,900.00	6,027.00	6,051.00	6,051.00	92.83	122.19	90.00	5,013.14	3,132.39	4,643.92	4,431.17	212.75	21.828		
11,000.00	6,027.00	6,051.00	6,051.00	94.49	122.19	90.00	5,013.14	3,132.39	4,642.71	4,428.68	214.03	21.692		
11,006.19	6,027.00	6,051.00	6,051.00	94.59	122.19	90.00	5,013.14	3,132.39	4,642.71	4,428.60	214.11	21.684 CC		
11,100.00	6,027.00	6,051.00	6,051.00	96.16	122.19	90.00	5,013.14	3,132.39	4,643.66	4,428.39	215.27	21.571 ES		
11,200.00	6,027.00	6,051.00	6,051.00	97.83	122.19	90.00	5,013.14	3,132.39	4,646.75	4,430.28	216.47	21.466		
11,300.00	6,027.00	6,051.00	6,051.00	99.50	122.19	90.00	5,013.14	3,132.39	4,652.00	4,434.36	217.63	21.376		
11,400.00	6,027.00	6,051.00	6,051.00	101.18	122.19	90.00	5,013.14	3,132.39	4,659.38	4,440.63	218.75	21.300		
11,500.00	6,027.00	6,051.00	6,051.00	102.86	122.19	90.00	5,013.14	3,132.39	4,668.90	4,449.07	219.82	21.239		
11,600.00	6,027.00	6,051.00	6,051.00	104.54	122.19	90.00	5,013.14	3,132.39	4,680.53	4,459.68	220.85	21.193		
11,700.00	6,027.00	6,051.00	6,051.00	106.23	122.19	90.00	5,013.14	3,132.39	4,694.26	4,472.43	221.84	21.161		
11,800.00	6,027.00	6,051.00	6,051.00	107.92	122.19	90.00	5,013.14	3,132.39	4,710.08	4,487.31	222.78	21.143		
11,900.00	6,027.00	6,051.00	6,051.00	109.61	122.19	90.00	5,013.14	3,132.39	4,727.96	4,504.30	223.67	21.138 SF		
12,000.00	6,027.00	6,051.00	6,051.00	111.31	122.19	90.00	5,013.14	3,132.39	4,747.88	4,523.37	224.51	21.148		
12,100.00	6,027.00	6,051.00	6,051.00	113.00	122.19	90.00	5,013.14	3,132.39	4,769.82	4,544.51	225.31	21.170		
12,200.00	6,027.00	6,051.00	6,051.00	114.71	122.19	90.00	5,013.14	3,132.39	4,793.74	4,567.68	226.06	21.206		
12,300.00	6,027.00	6,051.00	6,051.00	116.41	122.19	90.00	5,013.14	3,132.39	4,819.62	4,592.85	226.77	21.254		
12,400.00	6,027.00	6,051.00	6,051.00	118.11	122.19	90.00	5,013.14	3,132.39	4,847.42	4,619.99	227.42	21.314		
12,500.00	6,027.00	6,051.00	6,051.00	119.82	122.19	90.00	5,013.14	3,132.39	4,877.11	4,649.07	228.04	21.387		
12,600.00	6,027.00	6,051.00	6,051.00	121.53	122.19	90.00	5,013.14	3,132.39	4,908.66	4,680.06	228.61	21.472		
12,700.00	6,027.00	6,051.00	6,051.00	123.24	122.19	90.00	5,013.14	3,132.39	4,942.04	4,712.91	229.13	21.569		
12,800.00	6,027.00	6,051.00	6,051.00	124.95	122.19	90.00	5,013.14	3,132.39	4,977.20	4,747.58	229.61	21.676		
12,900.00	6,027.00	6,051.00	6,051.00	126.66	122.19	90.00	5,013.14	3,132.39	5,014.11	4,784.05	230.06	21.795		
13,000.00	6,027.00	6,051.00	6,051.00	128.38	122.19	90.00	5,013.14	3,132.39	5,052.73	4,822.27	230.46	21.925		
13,100.00	6,027.00	6,051.00	6,051.00	130.10	122.19	90.00	5,013.14	3,132.39	5,093.01	4,862.19	230.82	22.065		
13,200.00	6,027.00	6,051.00	6,051.00	131.82	122.19	90.00	5,013.14	3,132.39	5,134.94	4,903.79	231.14	22.215		
13,300.00	6,027.00	6,051.00	6,051.00	133.54	122.19	90.00	5,013.14	3,132.39	5,178.45	4,947.02	231.43	22.376		
13,400.00	6,027.00	6,051.00	6,051.00	135.26	122.19	90.00	5,013.14	3,132.39	5,223.51	4,991.83	231.69	22.546		
13,500.00	6,027.00	6,051.00	6,051.00	136.98	122.19	90.00	5,013.14	3,132.39	5,270.09	5,038.18	231.91	22.725		
13,600.00	6,027.00	6,051.00	6,051.00	138.71	122.19	90.00	5,013.14	3,132.39	5,318.14	5,086.05	232.09	22.914		
13,700.00	6,027.00	6,051.00	6,051.00	140.43	122.19	90.00	5,013.14	3,132.39	5,367.62	5,135.37	232.25	23.111		
13,800.00	6,027.00	6,051.00	6,051.00	142.16	122.19	90.00	5,013.14	3,132.39	5,418.50	5,186.12	232.38	23.317		
13,900.00	6,027.00	6,051.00	6,051.00	143.89	122.19	90.00	5,013.14	3,132.39	5,470.73	5,238.25	232.48	23.532		
14,000.00	6,027.00	6,051.00	6,051.00	145.62	122.19	90.00	5,013.14	3,132.39	5,524.28	5,291.72	232.56	23.754		
14,100.00	6,027.00	6,051.00	6,051.00	147.35	122.19	90.00	5,013.14	3,132.39	5,579.11	5,346.50	232.61	23.985		
14,200.00	6,027.00	6,051.00	6,051.00	149.08	122.19	90.00	5,013.14	3,132.39	5,635.17	5,402.54	232.64	24.223		
14,300.00	6,027.00	6,051.00	6,051.00	150.81	122.19	90.00	5,013.14	3,132.39	5,692.45	5,459.80	232.64	24.469		
14,400.00	6,027.00	6,051.00	6,051.00	152.54	122.19	90.00	5,013.14	3,132.39	5,750.89	5,518.26	232.63	24.721		
14,500.00	6,027.00	6,051.00	6,051.00	154.28	122.19	90.00	5,013.14	3,132.39	5,810.46	5,577.87	232.60	24.981		
14,600.00	6,027.00	6,051.00	6,051.00	156.01	122.19	90.00	5,013.14	3,132.39	5,871.14	5,638.59	232.54	25.247		
14,700.00	6,027.00	6,051.00	6,051.00	157.75	122.19	90.00	5,013.14	3,132.39	5,932.87	5,700.40	232.47	25.520		
14,800.00	6,027.00	6,051.00	6,051.00	159.49	122.19	90.00	5,013.14	3,132.39	5,995.65	5,763.25	232.39	25.800		
14,900.00	6,027.00	6,051.00	6,051.00	161.22	122.19	90.00	5,013.14	3,132.39	6,059.42	5,827.12	232.29	26.085		
15,000.00	6,027.00	6,051.00	6,051.00	162.96	122.19	90.00	5,013.14	3,132.39	6,124.16	5,891.98	232.18	26.377		
15,100.00	6,027.00	6,051.00	6,051.00	164.70	122.19	90.00	5,013.14	3,132.39	6,189.83	5,957.78	232.05	26.674		
15,200.00	6,027.00	6,051.00	6,051.00	166.44	122.19	90.00	5,013.14	3,132.39	6,256.42	6,024.50	231.92	26.977		
15,300.00	6,027.00	6,051.00	6,051.00	168.18	122.19	90.00	5,013.14	3,132.39	6,323.89	6,092.12	231.77	27.285		
15,400.00	6,027.00	6,051.00	6,051.00	169.93	122.19	90.00	5,013.14	3,132.39	6,392.21	6,160.60	231.61	27.599		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 9-T5N-R61W - ABND VERT PRONGHORN 41-9 (GYRO) - OWB - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-INC												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,500.00	6,027.00	6,051.00	6,051.00	171.67	122.19	90.00	5,013.14	3,132.39	6,461.35	6,229.91	231.45	27.917	
15,600.00	6,027.00	6,051.00	6,051.00	173.41	122.19	90.00	5,013.14	3,132.39	6,531.30	6,300.02	231.27	28.241	
15,700.00	6,027.00	6,051.00	6,051.00	175.15	122.19	90.00	5,013.14	3,132.39	6,602.02	6,370.92	231.09	28.569	
15,800.00	6,027.00	6,051.00	6,051.00	176.90	122.19	90.00	5,013.14	3,132.39	6,673.48	6,442.58	230.90	28.902	
15,900.00	6,027.00	6,051.00	6,051.00	178.64	122.19	90.00	5,013.14	3,132.39	6,745.68	6,514.97	230.71	29.239	
16,000.00	6,027.00	6,051.00	6,051.00	180.39	122.19	90.00	5,013.14	3,132.39	6,818.57	6,588.06	230.51	29.580	
16,100.00	6,027.00	6,051.00	6,051.00	182.13	122.19	90.00	5,013.14	3,132.39	6,892.15	6,661.84	230.30	29.926	
16,200.00	6,027.00	6,051.00	6,051.00	183.88	122.19	90.00	5,013.14	3,132.39	6,966.38	6,736.28	230.10	30.276	
16,300.00	6,027.00	6,051.00	6,051.00	185.63	122.19	90.00	5,013.14	3,132.39	7,041.25	6,811.37	229.88	30.630	
16,400.00	6,027.00	6,051.00	6,051.00	187.38	122.19	90.00	5,013.14	3,132.39	7,116.74	6,887.07	229.67	30.987	
16,500.00	6,027.00	6,051.00	6,051.00	189.12	122.19	90.00	5,013.14	3,132.39	7,192.82	6,963.38	229.45	31.348	
16,600.00	6,027.00	6,051.00	6,051.00	190.87	122.19	90.00	5,013.14	3,132.39	7,269.49	7,040.26	229.23	31.713	
16,700.00	6,027.00	6,051.00	6,051.00	192.62	122.19	90.00	5,013.14	3,132.39	7,346.72	7,117.72	229.00	32.082	
16,795.97	6,027.00	6,051.00	6,051.00	194.30	122.19	90.00	5,013.14	3,132.39	7,421.34	7,192.56	228.79	32.438	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN 13-43-9HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	82.47	82.47	0.27	0.23	-37.39	1,661.38	-1,269.81	2,091.08	2,090.58	0.50	4,151.738		
200.00	200.00	177.35	177.35	0.63	0.57	-37.38	1,661.82	-1,269.69	2,091.37	2,090.17	1.20	1,739.298		
300.00	300.00	272.22	272.22	0.99	0.92	-37.36	1,662.62	-1,269.48	2,091.91	2,090.01	1.90	1,100.345		
400.00	400.00	367.09	367.08	1.34	1.26	-37.34	1,663.79	-1,269.17	2,092.69	2,090.09	2.60	804.946		
500.00	500.00	461.94	461.92	1.70	1.60	-37.30	1,665.33	-1,268.76	2,093.72	2,090.42	3.30	634.778		
600.00	600.00	557.25	557.20	2.06	1.94	-37.26	1,667.24	-1,268.25	2,094.99	2,090.99	4.00	523.943		
700.00	700.00	656.54	656.47	2.42	2.29	-37.21	1,669.45	-1,267.63	2,096.38	2,091.67	4.71	444.764		
800.00	800.00	755.49	755.39	2.78	2.65	-37.16	1,671.77	-1,266.91	2,097.81	2,092.38	5.43	386.528		
900.00	900.00	853.00	852.86	3.14	3.00	-37.10	1,674.20	-1,266.15	2,099.33	2,093.19	6.14	342.124		
1,000.00	999.98	950.26	950.08	3.49	3.35	52.24	1,676.79	-1,265.37	2,099.90	2,093.06	6.84	307.189		
1,100.00	1,099.84	1,046.73	1,046.51	3.83	3.70	52.44	1,679.51	-1,264.63	2,098.49	2,090.96	7.53	278.734		
1,200.00	1,199.45	1,135.15	1,134.89	4.19	4.02	52.71	1,682.15	-1,264.02	2,095.19	2,086.99	8.20	255.551		
1,300.00	1,298.70	1,217.00	1,216.66	4.55	4.31	53.07	1,685.84	-1,263.72	2,091.12	2,082.26	8.85	236.189		
1,400.00	1,397.47	1,261.64	1,261.22	4.94	4.47	53.34	1,688.61	-1,263.81	2,086.51	2,077.13	9.38	222.415		
1,500.00	1,495.62	1,308.00	1,307.44	5.34	4.64	53.65	1,692.08	-1,264.22	2,081.98	2,072.05	9.93	209.732		
1,600.00	1,593.06	1,372.61	1,371.75	5.78	4.88	54.11	1,698.14	-1,265.35	2,077.47	2,066.91	10.56	196.694		
1,700.00	1,689.64	1,428.63	1,427.37	6.24	5.09	54.57	1,704.58	-1,266.89	2,073.28	2,062.09	11.19	185.336		
1,800.00	1,785.27	1,498.00	1,496.13	6.75	5.35	55.16	1,713.24	-1,270.14	2,069.17	2,057.27	11.90	173.930		
1,900.00	1,880.44	1,571.99	1,569.36	7.30	5.64	55.71	1,722.62	-1,274.99	2,065.68	2,053.03	12.65	163.295		
2,000.00	1,975.60	1,647.52	1,644.05	7.86	5.93	56.26	1,732.12	-1,280.87	2,063.20	2,049.77	13.43	153.660		
2,100.00	2,070.77	1,718.48	1,714.10	8.43	6.21	56.77	1,741.74	-1,286.90	2,062.20	2,048.00	14.20	145.220		
2,114.00	2,084.09	1,728.31	1,723.79	8.52	6.25	56.84	1,743.15	-1,287.73	2,062.18	2,047.87	14.31	144.107		
2,200.00	2,165.93	1,790.66	1,785.20	9.02	6.50	57.30	1,752.61	-1,292.99	2,062.75	2,047.76	14.99	137.589		
2,300.00	2,261.10	1,875.00	1,868.16	9.62	6.85	57.95	1,766.28	-1,299.57	2,064.34	2,048.49	15.85	130.226		
2,400.00	2,356.26	1,939.73	1,931.71	10.23	7.13	58.46	1,777.64	-1,304.42	2,067.33	2,050.70	16.63	124.285		
2,500.00	2,451.43	1,998.27	1,988.95	10.84	7.38	58.94	1,788.99	-1,308.92	2,072.36	2,054.97	17.39	119.157		
2,600.00	2,546.59	2,065.00	2,053.89	11.46	7.68	59.50	1,803.58	-1,313.78	2,079.64	2,061.45	18.19	114.303		
2,700.00	2,641.76	2,124.62	2,111.65	12.09	7.96	60.03	1,817.81	-1,317.70	2,088.80	2,069.83	18.97	110.136		
2,800.00	2,736.92	2,193.34	2,178.02	12.72	8.29	60.66	1,835.18	-1,321.60	2,099.48	2,079.70	19.79	106.100		
2,900.00	2,832.09	2,255.00	2,237.33	13.35	8.59	61.23	1,851.71	-1,324.99	2,111.97	2,091.40	20.57	102.659		
3,000.00	2,927.25	2,313.73	2,293.54	13.99	8.89	61.78	1,868.40	-1,328.25	2,126.46	2,105.12	21.34	99.641		
3,100.00	3,022.42	2,412.38	2,387.56	14.63	9.40	62.71	1,897.72	-1,333.89	2,142.74	2,120.39	22.35	95.872		
3,200.00	3,117.58	2,493.42	2,465.06	15.27	9.83	63.44	1,920.89	-1,338.91	2,158.71	2,135.45	23.26	92.816		
3,300.00	3,212.75	2,572.37	2,540.24	15.91	10.26	64.13	1,944.24	-1,344.89	2,176.44	2,152.29	24.16	90.103		
3,400.00	3,307.91	2,675.86	2,639.05	16.56	10.82	65.01	1,973.93	-1,353.01	2,193.92	2,168.71	25.21	87.025		
3,500.00	3,403.08	2,774.80	2,733.33	17.20	11.37	65.81	2,002.56	-1,361.90	2,212.52	2,186.27	26.24	84.314		
3,600.00	3,498.24	2,903.82	2,856.99	17.85	12.08	66.82	2,037.66	-1,372.99	2,229.62	2,202.15	27.47	81.178		
3,700.00	3,593.41	3,037.12	2,985.29	18.50	12.81	67.87	2,072.35	-1,383.11	2,245.76	2,217.04	28.72	78.201		
3,800.00	3,688.57	3,111.00	3,056.42	19.15	13.21	68.44	2,091.50	-1,388.84	2,262.29	2,232.69	29.61	76.410		
3,900.00	3,783.74	3,163.06	3,106.33	19.81	13.50	68.83	2,105.57	-1,393.35	2,280.46	2,250.10	30.36	75.123		
4,000.00	3,878.90	3,206.00	3,147.34	20.46	13.74	69.15	2,117.68	-1,397.35	2,300.59	2,269.56	31.03	74.137		
4,100.00	3,974.07	3,263.46	3,201.87	21.11	14.09	69.56	2,134.86	-1,403.04	2,322.76	2,290.97	31.80	73.048		
4,200.00	4,069.23	3,301.00	3,237.24	21.77	14.31	69.84	2,146.80	-1,406.96	2,347.24	2,314.83	32.41	72.429		
4,300.00	4,164.40	3,375.53	3,307.08	22.42	14.78	70.37	2,171.59	-1,414.94	2,373.35	2,340.07	33.29	71.297		
4,400.00	4,259.56	3,554.01	3,474.74	23.08	15.90	71.63	2,230.03	-1,432.93	2,399.40	2,364.45	34.96	68.637		
4,500.00	4,354.73	3,673.33	3,587.99	23.74	16.63	72.45	2,265.94	-1,443.89	2,422.65	2,386.47	36.18	66.964		
4,600.00	4,449.89	3,886.68	3,791.75	24.39	17.88	73.87	2,326.05	-1,463.26	2,445.31	2,407.28	38.04	64.286		
4,700.00	4,545.06	4,438.32	4,333.35	25.05	20.44	77.61	2,421.91	-1,490.24	2,459.88	2,418.53	41.35	59.485		
4,800.00	4,640.22	4,691.00	4,585.68	25.71	21.25	79.31	2,433.29	-1,495.76	2,458.47	2,415.65	42.81	57.422		
4,900.00	4,735.39	4,821.90	4,716.57	26.37	21.61	80.22	2,434.05	-1,496.53	2,453.38	2,409.48	43.90	55.885		
5,000.00	4,830.55	4,912.14	4,806.81	27.03	21.87	80.86	2,434.32	-1,496.57	2,448.41	2,403.50	44.90	54.525		
5,100.00	4,925.72	5,002.83	4,897.50	27.69	22.12	81.51	2,434.78	-1,496.49	2,443.98	2,398.07	45.91	53.234		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	5,111.84	5,006.51	28.35	22.42	82.30	2,435.18	-1,496.23	2,439.79	2,392.85	46.94	51.977		
5,300.00	5,116.05	5,223.05	5,117.71	29.01	22.72	83.11	2,434.89	-1,495.75	2,435.37	2,387.40	47.97	50.771		
5,400.00	5,211.21	5,336.43	5,231.09	29.67	23.02	83.94	2,433.84	-1,494.76	2,430.66	2,381.68	48.99	49.620		
5,500.00	5,306.38	5,442.03	5,336.66	30.33	23.29	84.73	2,432.21	-1,493.38	2,425.73	2,375.74	49.99	48.525		
5,600.00	5,401.54	5,542.58	5,437.19	30.99	23.55	85.49	2,430.36	-1,492.03	2,420.94	2,369.96	50.98	47.484		
5,700.00	5,496.71	5,627.17	5,521.72	31.65	23.77	82.01	2,428.90	-1,489.59	2,416.43	2,364.48	51.96	46.507		
5,800.00	5,591.13	5,830.58	5,718.47	32.30	24.22	57.45	2,424.23	-1,443.70	2,400.61	2,347.55	53.06	45.244		
5,900.00	5,682.22	5,869.64	5,753.98	32.92	24.28	41.24	2,422.88	-1,427.50	2,367.18	2,313.25	53.93	43.891		
6,000.00	5,767.23	5,903.53	5,783.95	33.50	24.33	32.32	2,422.18	-1,411.71	2,320.31	2,265.59	54.72	42.402		
6,100.00	5,843.56	5,940.00	5,815.21	34.04	24.39	27.63	2,421.90	-1,392.93	2,261.06	2,205.63	55.43	40.792		
6,200.00	5,908.90	5,984.70	5,852.07	34.53	24.45	25.86	2,421.61	-1,367.65	2,190.34	2,134.24	56.10	39.045		
6,300.00	5,961.25	6,030.64	5,888.28	34.99	24.51	26.63	2,420.79	-1,339.40	2,109.37	2,052.67	56.70	37.203		
6,400.00	5,999.04	6,046.18	5,900.10	35.42	24.53	28.98	2,420.42	-1,329.34	2,020.33	1,963.20	57.13	35.364		
6,500.00	6,021.11	6,053.35	5,905.49	35.83	24.53	36.42	2,420.24	-1,324.60	1,925.37	1,867.93	57.44	33.521		
6,600.00	6,027.00	6,053.91	5,905.90	36.24	24.53	60.01	2,420.23	-1,324.23	1,826.83	1,769.20	57.63	31.700		
6,700.00	6,027.00	6,052.12	5,904.57	36.68	24.53	59.54	2,420.27	-1,325.41	1,727.56	1,669.77	57.78	29.898		
6,800.00	6,027.00	6,050.33	5,903.23	37.20	24.53	59.07	2,420.32	-1,326.60	1,628.37	1,570.42	57.95	28.098		
6,900.00	6,027.00	6,048.54	5,901.88	37.80	24.53	58.59	2,420.36	-1,327.78	1,529.29	1,471.15	58.14	26.302		
7,000.00	6,027.00	6,046.74	5,900.53	38.47	24.53	58.12	2,420.40	-1,328.97	1,430.33	1,371.98	58.36	24.510		
7,100.00	6,027.00	6,044.94	5,899.17	39.21	24.53	57.64	2,420.45	-1,330.15	1,331.53	1,272.93	58.60	22.722		
7,200.00	6,027.00	6,033.00	5,890.09	40.02	24.51	54.43	2,420.73	-1,337.89	1,232.97	1,174.21	58.76	20.982		
7,300.00	6,027.00	6,033.00	5,890.09	40.89	24.51	54.43	2,420.73	-1,337.89	1,134.58	1,075.49	59.09	19.201		
7,400.00	6,027.00	6,033.00	5,890.09	41.83	24.51	54.43	2,420.73	-1,337.89	1,036.50	977.02	59.47	17.428		
7,500.00	6,027.00	6,033.00	5,890.09	42.83	24.51	54.43	2,420.73	-1,337.89	938.82	878.89	59.92	15.667		
7,600.00	6,027.00	6,033.00	5,890.09	43.88	24.51	54.43	2,420.73	-1,337.89	841.69	781.22	60.46	13.920		
7,700.00	6,027.00	6,033.00	5,890.09	44.99	24.51	54.43	2,420.73	-1,337.89	745.31	684.19	61.12	12.194		
7,800.00	6,027.00	6,033.00	5,890.09	46.14	24.51	54.43	2,420.73	-1,337.89	650.03	588.10	61.93	10.497		
7,900.00	6,027.00	6,033.00	5,890.09	47.33	24.51	54.43	2,420.73	-1,337.89	556.41	493.49	62.93	8.842		
8,000.00	6,027.00	6,033.00	5,890.09	48.57	24.51	54.43	2,420.73	-1,337.89	465.46	401.30	64.15	7.255		
8,100.00	6,027.00	6,033.00	5,890.09	49.84	24.51	54.43	2,420.73	-1,337.89	379.08	313.52	65.57	5.782		
8,200.00	6,027.00	6,024.19	5,883.30	51.15	24.50	52.04	2,420.94	-1,343.51	301.10	235.16	65.94	4.566		
8,300.00	6,027.00	6,022.43	5,881.93	52.48	24.50	51.56	2,420.98	-1,344.62	240.15	175.49	64.66	3.714		
8,400.00	6,027.00	6,020.73	5,880.62	53.85	24.50	51.10	2,421.01	-1,345.69	211.36	153.43	57.93	3.649 ES, SF		
8,415.01	6,027.00	6,020.48	5,880.42	54.05	24.50	51.04	2,421.02	-1,345.84	210.83	154.40	56.43	3.736 CC		
8,500.00	6,027.00	6,019.10	5,879.35	55.24	24.50	50.66	2,421.05	-1,346.71	227.31	179.30	48.01	4.734		
8,600.00	6,027.00	6,017.54	5,878.13	56.65	24.49	50.24	2,421.08	-1,347.69	280.46	237.26	43.20	6.493		
8,700.00	6,027.00	6,016.03	5,876.95	58.08	24.49	49.83	2,421.11	-1,348.63	354.46	311.19	43.26	8.193		
8,800.00	6,027.00	6,014.57	5,875.81	59.54	24.49	49.43	2,421.14	-1,349.54	438.88	394.12	44.76	9.806		
8,900.00	6,027.00	6,013.17	5,874.71	61.01	24.49	49.05	2,421.17	-1,350.41	528.76	482.48	46.28	11.426		
9,000.00	6,027.00	6,011.82	5,873.65	62.50	24.49	48.68	2,421.19	-1,351.25	621.73	574.19	47.54	13.077		
9,100.00	6,027.00	6,010.51	5,872.63	64.01	24.48	48.33	2,421.22	-1,352.06	716.60	668.04	48.56	14.757		
9,200.00	6,027.00	6,009.24	5,871.63	65.53	24.48	47.99	2,421.24	-1,352.84	812.69	763.31	49.37	16.460		
9,300.00	6,027.00	6,008.02	5,870.67	67.06	24.48	47.66	2,421.26	-1,353.59	909.62	859.58	50.04	18.178		
9,400.00	6,027.00	6,006.84	5,869.74	68.61	24.48	47.34	2,421.28	-1,354.32	1,007.15	956.57	50.59	19.909		
9,500.00	6,027.00	6,005.70	5,868.84	70.17	24.48	47.03	2,421.30	-1,355.02	1,105.13	1,054.08	51.05	21.648		
9,600.00	6,027.00	6,004.59	5,867.96	71.73	24.48	46.73	2,421.32	-1,355.70	1,203.43	1,151.99	51.44	23.394		
9,700.00	6,027.00	6,003.52	5,867.11	73.31	24.47	46.44	2,421.34	-1,356.36	1,301.99	1,250.21	51.78	25.144		
9,800.00	6,027.00	6,002.48	5,866.29	74.90	24.47	46.16	2,421.36	-1,356.99	1,400.75	1,348.68	52.08	26.898		
9,900.00	6,027.00	6,001.47	5,865.49	76.50	24.47	45.89	2,421.37	-1,357.60	1,499.68	1,447.34	52.34	28.654		
10,000.00	6,027.00	6,000.49	5,864.71	78.10	24.47	45.63	2,421.39	-1,358.20	1,598.74	1,546.17	52.57	30.411		
10,100.00	6,027.00	5,999.55	5,863.96	79.71	24.47	45.37	2,421.40	-1,358.77	1,697.90	1,645.12	52.78	32.170		
10,200.00	6,027.00	5,998.62	5,863.23	81.33	24.47	45.13	2,421.42	-1,359.33	1,797.16	1,744.19	52.97	33.928		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN 13-43-9HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	5,997.73	5,862.51	82.96	24.47	44.89	2,421.43	-1,359.87	1,896.50	1,843.36	53.14	35.687		
10,400.00	6,027.00	5,996.86	5,861.82	84.59	24.47	44.66	2,421.45	-1,360.40	1,995.90	1,942.60	53.30	37.445		
10,500.00	6,027.00	5,996.01	5,861.15	86.23	24.46	44.43	2,421.46	-1,360.91	2,095.36	2,041.91	53.45	39.202		
10,600.00	6,027.00	5,995.19	5,860.49	87.87	24.46	44.21	2,421.47	-1,361.41	2,194.87	2,141.28	53.59	40.959		
10,700.00	6,027.00	5,994.39	5,859.85	89.52	24.46	44.00	2,421.48	-1,361.89	2,294.42	2,240.70	53.72	42.714		
10,800.00	6,027.00	5,993.61	5,859.23	91.17	24.46	43.79	2,421.49	-1,362.35	2,394.00	2,340.17	53.84	44.468		
10,900.00	6,027.00	5,992.85	5,858.62	92.83	24.46	43.59	2,421.51	-1,362.81	2,493.62	2,439.67	53.95	46.220		
11,000.00	6,027.00	5,992.11	5,858.03	94.49	24.46	43.39	2,421.52	-1,363.25	2,593.27	2,539.21	54.06	47.971		
11,100.00	6,027.00	5,991.39	5,857.45	96.16	24.46	43.20	2,421.53	-1,363.68	2,692.94	2,638.78	54.16	49.720		
11,200.00	6,027.00	5,990.69	5,856.89	97.83	24.46	43.02	2,421.54	-1,364.10	2,792.64	2,738.38	54.26	51.467		
11,300.00	6,027.00	5,990.01	5,856.34	99.50	24.46	42.84	2,421.54	-1,364.51	2,892.36	2,838.00	54.36	53.212		
11,400.00	6,027.00	5,989.34	5,855.80	101.18	24.46	42.66	2,421.55	-1,364.91	2,992.09	2,937.65	54.45	54.955		
11,500.00	6,027.00	5,988.69	5,855.28	102.86	24.45	42.49	2,421.56	-1,365.29	3,091.84	3,037.31	54.53	56.696		
11,600.00	6,027.00	5,988.05	5,854.77	104.54	24.45	42.32	2,421.57	-1,365.67	3,191.61	3,136.99	54.62	58.434		
11,700.00	6,027.00	5,987.43	5,854.27	106.23	24.45	42.16	2,421.58	-1,366.04	3,291.39	3,236.69	54.70	60.170		
11,800.00	6,027.00	5,986.83	5,853.78	107.92	24.45	42.00	2,421.59	-1,366.40	3,391.19	3,336.41	54.78	61.903		
11,900.00	6,027.00	5,986.23	5,853.31	109.61	24.45	41.85	2,421.59	-1,366.75	3,490.99	3,436.13	54.86	63.634		
12,000.00	6,027.00	5,985.66	5,852.84	111.31	24.45	41.70	2,421.60	-1,367.09	3,590.81	3,535.87	54.94	65.362		
12,100.00	6,027.00	5,985.09	5,852.38	113.00	24.45	41.55	2,421.61	-1,367.42	3,690.64	3,635.62	55.01	67.088		
12,200.00	6,027.00	5,984.54	5,851.94	114.71	24.45	41.41	2,421.61	-1,367.75	3,790.47	3,735.39	55.09	68.811		
12,300.00	6,027.00	5,984.00	5,851.50	116.41	24.45	41.26	2,421.62	-1,368.07	3,890.32	3,835.16	55.16	70.531		
12,400.00	6,027.00	5,983.47	5,851.08	118.11	24.45	41.13	2,421.63	-1,368.38	3,990.17	3,934.94	55.23	72.248		
12,500.00	6,027.00	5,982.96	5,850.66	119.82	24.45	40.99	2,421.63	-1,368.68	4,090.02	4,034.73	55.30	73.962		
12,600.00	6,027.00	5,982.45	5,850.25	121.53	24.45	40.86	2,421.64	-1,368.98	4,189.89	4,134.52	55.37	75.673		
12,700.00	6,027.00	5,981.96	5,849.85	123.24	24.45	40.73	2,421.64	-1,369.27	4,289.76	4,234.32	55.44	77.381		
12,800.00	6,027.00	5,981.47	5,849.46	124.95	24.44	40.61	2,421.65	-1,369.56	4,389.64	4,334.13	55.50	79.086		
12,900.00	6,027.00	5,981.00	5,849.07	126.66	24.44	40.49	2,421.66	-1,369.83	4,489.52	4,433.95	55.57	80.788		
13,000.00	6,027.00	5,980.53	5,848.70	128.38	24.44	40.37	2,421.66	-1,370.11	4,589.41	4,533.77	55.64	82.487		
13,100.00	6,027.00	5,980.08	5,848.33	130.10	24.44	40.25	2,421.67	-1,370.37	4,689.30	4,633.59	55.70	84.183		
13,200.00	6,027.00	5,979.63	5,847.97	131.82	24.44	40.13	2,421.67	-1,370.63	4,789.19	4,733.43	55.77	85.875		
13,300.00	6,027.00	5,979.20	5,847.61	133.54	24.44	40.02	2,421.68	-1,370.89	4,889.10	4,833.26	55.83	87.564		
13,400.00	6,027.00	5,978.77	5,847.27	135.26	24.44	39.91	2,421.68	-1,371.14	4,989.00	4,933.10	55.90	89.249		
13,500.00	6,027.00	5,978.35	5,846.92	136.98	24.44	39.80	2,421.68	-1,371.38	5,088.91	5,032.94	55.96	90.932		
13,600.00	6,027.00	5,977.94	5,846.59	138.71	24.44	39.70	2,421.69	-1,371.62	5,188.82	5,132.79	56.03	92.610		
13,700.00	6,027.00	5,977.53	5,846.26	140.43	24.44	39.60	2,421.69	-1,371.86	5,288.73	5,232.64	56.09	94.286		
13,800.00	6,027.00	5,977.14	5,845.94	142.16	24.44	39.49	2,421.70	-1,372.09	5,388.65	5,332.49	56.16	95.957		
13,900.00	6,027.00	5,976.75	5,845.62	143.89	24.44	39.39	2,421.70	-1,372.31	5,488.57	5,432.35	56.22	97.625		
14,000.00	6,027.00	5,976.37	5,845.31	145.62	24.44	39.30	2,421.70	-1,372.54	5,588.50	5,532.21	56.28	99.290		
14,100.00	6,027.00	5,975.99	5,845.01	147.35	24.44	39.20	2,421.71	-1,372.75	5,688.42	5,632.07	56.35	100.951		
14,200.00	6,027.00	5,975.63	5,844.71	149.08	24.44	39.11	2,421.71	-1,372.97	5,788.35	5,731.94	56.41	102.608		
14,300.00	6,027.00	5,975.27	5,844.42	150.81	24.44	39.02	2,421.72	-1,373.17	5,888.28	5,831.81	56.48	104.262		
14,400.00	6,027.00	5,974.91	5,844.13	152.54	24.44	38.93	2,421.72	-1,373.38	5,988.21	5,931.67	56.54	105.911		
14,500.00	6,027.00	5,974.57	5,843.85	154.28	24.44	38.84	2,421.72	-1,373.58	6,088.15	6,031.55	56.60	107.557		
14,600.00	6,027.00	5,974.22	5,843.57	156.01	24.44	38.75	2,421.73	-1,373.78	6,188.09	6,131.42	56.67	109.200		
14,700.00	6,027.00	5,973.89	5,843.29	157.75	24.43	38.67	2,421.73	-1,373.97	6,288.03	6,231.29	56.73	110.838		
14,800.00	6,027.00	5,973.56	5,843.03	159.49	24.43	38.58	2,421.73	-1,374.16	6,387.97	6,331.17	56.80	112.472		
14,900.00	6,027.00	5,973.23	5,842.76	161.22	24.43	38.50	2,421.73	-1,374.35	6,487.91	6,431.05	56.86	114.103		
15,000.00	6,027.00	5,972.92	5,842.50	162.96	24.43	38.42	2,421.74	-1,374.53	6,587.85	6,530.93	56.92	115.730		
15,100.00	6,027.00	5,972.60	5,842.25	164.70	24.43	38.34	2,421.74	-1,374.71	6,687.80	6,630.81	56.99	117.352		
15,200.00	6,027.00	5,972.30	5,841.99	166.44	24.43	38.26	2,421.74	-1,374.89	6,787.75	6,730.70	57.05	118.971		
15,300.00	6,027.00	5,971.99	5,841.75	168.18	24.43	38.19	2,421.75	-1,375.07	6,887.70	6,830.58	57.12	120.586		
15,400.00	6,027.00	5,971.70	5,841.50	169.93	24.43	38.11	2,421.75	-1,375.24	6,987.65	6,930.46	57.18	122.196		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 9-T5N-R61W - EXIST HZ PRONGHORN 13-43-9HNB - OWB - FINAL SURVEY												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 17-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	5,971.40	5,841.26	171.67	24.43	38.04	2,421.75	-1,375.41	7,087.60	7,030.35	57.25	123.803	
15,600.00	6,027.00	5,799.00	5,689.21	173.41	24.16	9.52	2,425.75	-1,455.49	7,187.73	7,129.86	57.87	124.204	
15,700.00	6,027.00	5,799.00	5,689.21	175.15	24.16	9.52	2,425.75	-1,455.49	7,287.63	7,229.69	57.93	125.798	
15,800.00	6,027.00	5,799.00	5,689.21	176.90	24.16	9.52	2,425.75	-1,455.49	7,387.53	7,329.53	57.99	127.389	
15,900.00	6,027.00	5,799.00	5,689.21	178.64	24.16	9.52	2,425.75	-1,455.49	7,487.43	7,429.37	58.05	128.976	
16,000.00	6,027.00	5,799.00	5,689.21	180.39	24.16	9.52	2,425.75	-1,455.49	7,587.33	7,529.22	58.11	130.558	
16,100.00	6,027.00	5,799.00	5,689.21	182.13	24.16	9.52	2,425.75	-1,455.49	7,687.24	7,629.06	58.18	132.137	
16,200.00	6,027.00	5,799.00	5,689.21	183.88	24.16	9.52	2,425.75	-1,455.49	7,787.15	7,728.91	58.24	133.711	
16,300.00	6,027.00	5,799.00	5,689.21	185.63	24.16	9.52	2,425.75	-1,455.49	7,887.06	7,828.76	58.30	135.281	
16,400.00	6,027.00	5,799.00	5,689.21	187.38	24.16	9.52	2,425.75	-1,455.49	7,986.98	7,928.61	58.36	136.848	
16,500.00	6,027.00	5,799.00	5,689.21	189.12	24.16	9.52	2,425.75	-1,455.49	8,086.89	8,028.47	58.43	138.410	
16,600.00	6,027.00	5,799.00	5,689.21	190.87	24.16	9.52	2,425.75	-1,455.49	8,186.81	8,128.32	58.49	139.967	
16,700.00	6,027.00	5,777.96	5,669.45	192.62	24.12	7.81	2,426.72	-1,462.65	8,286.52	8,227.92	58.60	141.418	
16,795.97	6,027.00	5,777.52	5,669.04	194.30	24.12	7.78	2,426.74	-1,462.79	8,382.40	8,323.74	58.66	142.903	

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN 13-43-9HNB - STK 1 - STK 1													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG, 7720-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	82.47	82.47	0.27	0.23	-37.39	1,661.38	-1,269.81	2,091.08	2,090.58	0.50	4,151.738		
200.00	200.00	177.35	177.35	0.63	0.57	-37.38	1,661.82	-1,269.69	2,091.37	2,090.17	1.20	1,739.298		
300.00	300.00	272.22	272.22	0.99	0.92	-37.36	1,662.62	-1,269.48	2,091.91	2,090.01	1.90	1,100.345		
400.00	400.00	367.09	367.08	1.34	1.26	-37.34	1,663.79	-1,269.17	2,092.69	2,090.09	2.60	804.946		
500.00	500.00	461.94	461.92	1.70	1.60	-37.30	1,665.33	-1,268.76	2,093.72	2,090.42	3.30	634.778		
600.00	600.00	557.25	557.20	2.06	1.94	-37.26	1,667.24	-1,268.25	2,094.99	2,090.99	4.00	523.943		
700.00	700.00	656.54	656.47	2.42	2.29	-37.21	1,669.45	-1,267.63	2,096.38	2,091.67	4.71	444.764		
800.00	800.00	755.49	755.39	2.78	2.65	-37.16	1,671.77	-1,266.91	2,097.81	2,092.38	5.43	386.528		
900.00	900.00	853.00	852.86	3.14	3.00	-37.10	1,674.20	-1,266.15	2,099.33	2,093.19	6.14	342.124		
1,000.00	999.98	950.26	950.08	3.49	3.35	52.24	1,676.79	-1,265.37	2,099.90	2,093.06	6.84	307.189		
1,100.00	1,099.84	1,046.73	1,046.51	3.83	3.70	52.44	1,679.51	-1,264.63	2,098.49	2,090.96	7.53	278.734		
1,200.00	1,199.45	1,135.15	1,134.89	4.19	4.02	52.71	1,682.15	-1,264.02	2,095.19	2,086.99	8.20	255.551		
1,300.00	1,298.70	1,217.00	1,216.66	4.55	4.31	53.07	1,685.84	-1,263.72	2,091.12	2,082.26	8.85	236.189		
1,400.00	1,397.47	1,261.64	1,261.22	4.94	4.47	53.34	1,688.61	-1,263.81	2,086.51	2,077.13	9.38	222.415		
1,500.00	1,495.62	1,308.00	1,307.44	5.34	4.64	53.65	1,692.08	-1,264.22	2,081.98	2,072.05	9.93	209.732		
1,600.00	1,593.06	1,372.61	1,371.75	5.78	4.88	54.11	1,698.14	-1,265.35	2,077.47	2,066.91	10.56	196.694		
1,700.00	1,689.64	1,428.63	1,427.37	6.24	5.09	54.57	1,704.58	-1,266.89	2,073.28	2,062.09	11.19	185.336		
1,800.00	1,785.27	1,498.00	1,496.13	6.75	5.35	55.16	1,713.24	-1,270.14	2,069.17	2,057.27	11.90	173.930		
1,900.00	1,880.44	1,571.99	1,569.36	7.30	5.64	55.71	1,722.62	-1,274.99	2,065.68	2,053.03	12.65	163.295		
2,000.00	1,975.60	1,647.52	1,644.05	7.86	5.93	56.26	1,732.12	-1,280.87	2,063.20	2,049.77	13.43	153.660		
2,100.00	2,070.77	1,718.48	1,714.10	8.43	6.21	56.77	1,741.74	-1,286.90	2,062.20	2,048.00	14.20	145.220		
2,114.00	2,084.09	1,728.31	1,723.79	8.52	6.25	56.84	1,743.15	-1,287.73	2,062.18	2,047.87	14.31	144.107		
2,200.00	2,165.93	1,790.66	1,785.20	9.02	6.50	57.30	1,752.61	-1,292.99	2,062.75	2,047.76	14.99	137.589		
2,300.00	2,261.10	1,875.00	1,868.16	9.62	6.85	57.95	1,766.28	-1,299.57	2,064.34	2,048.49	15.85	130.226		
2,400.00	2,356.26	1,939.73	1,931.71	10.23	7.13	58.46	1,777.64	-1,304.42	2,067.33	2,050.70	16.63	124.285		
2,500.00	2,451.43	1,998.27	1,988.95	10.84	7.38	58.94	1,788.99	-1,308.92	2,072.36	2,054.97	17.39	119.157		
2,600.00	2,546.59	2,065.00	2,053.89	11.46	7.68	59.50	1,803.58	-1,313.78	2,079.64	2,061.45	18.19	114.303		
2,700.00	2,641.76	2,124.62	2,111.65	12.09	7.96	60.03	1,817.81	-1,317.70	2,088.80	2,069.83	18.97	110.136		
2,800.00	2,736.92	2,193.34	2,178.02	12.72	8.29	60.66	1,835.18	-1,321.60	2,099.48	2,079.70	19.79	106.100		
2,900.00	2,832.09	2,255.00	2,237.33	13.35	8.59	61.23	1,851.71	-1,324.99	2,111.97	2,091.40	20.57	102.659		
3,000.00	2,927.25	2,313.73	2,293.54	13.99	8.89	61.78	1,868.40	-1,328.25	2,126.46	2,105.12	21.34	99.641		
3,100.00	3,022.42	2,412.38	2,387.56	14.63	9.40	62.71	1,897.72	-1,333.89	2,142.74	2,120.39	22.35	95.872		
3,200.00	3,117.58	2,493.42	2,465.06	15.27	9.83	63.44	1,920.89	-1,338.91	2,158.71	2,135.45	23.26	92.816		
3,300.00	3,212.75	2,572.37	2,540.24	15.91	10.26	64.13	1,944.24	-1,344.89	2,176.44	2,152.29	24.16	90.103		
3,400.00	3,307.91	2,675.86	2,639.05	16.56	10.82	65.01	1,973.93	-1,353.01	2,193.92	2,168.71	25.21	87.025		
3,500.00	3,403.08	2,774.80	2,733.33	17.20	11.37	65.81	2,002.56	-1,361.90	2,212.52	2,186.27	26.24	84.314		
3,600.00	3,498.24	2,903.82	2,856.99	17.85	12.08	66.82	2,037.66	-1,372.99	2,229.62	2,202.15	27.47	81.178		
3,700.00	3,593.41	3,037.12	2,985.29	18.50	12.81	67.87	2,072.35	-1,383.11	2,245.76	2,217.04	28.72	78.201		
3,800.00	3,688.57	3,111.00	3,056.42	19.15	13.21	68.44	2,091.50	-1,388.84	2,262.29	2,232.69	29.61	76.410		
3,900.00	3,783.74	3,163.06	3,106.33	19.81	13.50	68.83	2,105.57	-1,393.35	2,280.46	2,250.10	30.36	75.123		
4,000.00	3,878.90	3,206.00	3,147.34	20.46	13.74	69.15	2,117.68	-1,397.35	2,300.59	2,269.56	31.03	74.137		
4,100.00	3,974.07	3,263.46	3,201.87	21.11	14.09	69.56	2,134.86	-1,403.04	2,322.76	2,290.97	31.80	73.048		
4,200.00	4,069.23	3,301.00	3,237.24	21.77	14.31	69.84	2,146.80	-1,406.96	2,347.24	2,314.83	32.41	72.429		
4,300.00	4,164.40	3,375.53	3,307.08	22.42	14.78	70.37	2,171.59	-1,414.94	2,373.35	2,340.07	33.29	71.297		
4,400.00	4,259.56	3,554.01	3,474.74	23.08	15.90	71.63	2,230.03	-1,432.93	2,399.40	2,364.45	34.96	68.637		
4,500.00	4,354.73	3,673.33	3,587.99	23.74	16.63	72.45	2,265.94	-1,443.89	2,422.65	2,386.47	36.18	66.964		
4,600.00	4,449.89	3,886.68	3,791.75	24.39	17.88	73.87	2,326.05	-1,463.26	2,445.31	2,407.28	38.04	64.286		
4,700.00	4,545.06	4,438.32	4,333.35	25.05	20.44	77.61	2,421.91	-1,490.24	2,459.88	2,418.53	41.35	59.485		
4,800.00	4,640.22	4,691.00	4,585.68	25.71	21.25	79.31	2,433.29	-1,495.76	2,458.47	2,415.65	42.81	57.422		
4,900.00	4,735.39	4,821.90	4,716.57	26.37	21.61	80.22	2,434.05	-1,496.53	2,453.38	2,409.48	43.90	55.885		
5,000.00	4,830.55	4,912.14	4,806.81	27.03	21.87	80.86	2,434.32	-1,496.57	2,448.41	2,403.50	44.90	54.525		
5,100.00	4,925.72	5,002.83	4,897.50	27.69	22.12	81.51	2,434.78	-1,496.49	2,443.98	2,398.07	45.91	53.234		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG, 7720-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	5,111.84	5,006.51	28.35	22.42	82.30	2,435.18	-1,496.23	2,439.79	2,392.85	46.94	51.977		
5,300.00	5,116.05	5,223.05	5,117.71	29.01	22.72	83.11	2,434.89	-1,495.75	2,435.37	2,387.40	47.97	50.771		
5,400.00	5,211.21	5,336.43	5,231.09	29.67	23.02	83.94	2,433.84	-1,494.76	2,430.66	2,381.68	48.99	49.620		
5,500.00	5,306.38	5,442.03	5,336.66	30.33	23.29	84.73	2,432.21	-1,493.38	2,425.73	2,375.74	49.99	48.525		
5,600.00	5,401.54	5,542.58	5,437.19	30.99	23.55	85.49	2,430.36	-1,492.03	2,420.94	2,369.96	50.98	47.484		
5,700.00	5,496.71	5,627.17	5,521.72	31.65	23.77	82.01	2,428.90	-1,489.59	2,416.43	2,364.48	51.96	46.507		
5,800.00	5,591.13	5,830.58	5,718.47	32.30	24.22	57.45	2,424.23	-1,443.70	2,400.61	2,347.55	53.06	45.244		
5,900.00	5,682.22	5,869.64	5,753.98	32.92	24.28	41.24	2,422.88	-1,427.50	2,367.18	2,313.25	53.93	43.891		
6,000.00	5,767.23	5,903.53	5,783.95	33.50	24.33	32.32	2,422.18	-1,411.71	2,320.31	2,265.59	54.72	42.402		
6,100.00	5,843.56	5,940.00	5,815.21	34.04	24.39	27.63	2,421.90	-1,392.93	2,261.06	2,205.63	55.43	40.792		
6,200.00	5,908.90	5,984.70	5,852.07	34.53	24.45	25.86	2,421.61	-1,367.65	2,190.34	2,134.24	56.10	39.045		
6,300.00	5,961.25	6,030.64	5,888.28	34.99	24.51	26.63	2,420.79	-1,339.40	2,109.37	2,052.67	56.70	37.203		
6,400.00	5,999.04	6,046.18	5,900.10	35.42	24.53	28.98	2,420.42	-1,329.34	2,020.33	1,963.20	57.13	35.364		
6,500.00	6,021.11	6,053.35	5,905.49	35.83	24.53	36.42	2,420.24	-1,324.60	1,925.37	1,867.93	57.44	33.521		
6,600.00	6,027.00	6,053.91	5,905.90	36.24	24.53	60.01	2,420.23	-1,324.23	1,826.83	1,769.20	57.63	31.700		
6,700.00	6,027.00	6,052.12	5,904.57	36.68	24.53	59.54	2,420.27	-1,325.41	1,727.56	1,669.77	57.78	29.898		
6,800.00	6,027.00	6,050.33	5,903.23	37.20	24.53	59.07	2,420.32	-1,326.60	1,628.37	1,570.42	57.95	28.098		
6,900.00	6,027.00	6,048.54	5,901.88	37.80	24.53	58.59	2,420.36	-1,327.78	1,529.29	1,471.15	58.14	26.302		
7,000.00	6,027.00	6,046.74	5,900.53	38.47	24.53	58.12	2,420.40	-1,328.97	1,430.33	1,371.98	58.36	24.510		
7,100.00	6,027.00	6,044.94	5,899.17	39.21	24.53	57.64	2,420.45	-1,330.15	1,331.53	1,272.93	58.60	22.722		
7,200.00	6,027.00	6,033.00	5,890.09	40.02	24.51	54.43	2,420.73	-1,337.89	1,232.97	1,174.21	58.76	20.982		
7,300.00	6,027.00	6,033.00	5,890.09	40.89	24.51	54.43	2,420.73	-1,337.89	1,134.58	1,075.49	59.09	19.201		
7,400.00	6,027.00	6,033.00	5,890.09	41.83	24.51	54.43	2,420.73	-1,337.89	1,036.50	977.02	59.47	17.428		
7,500.00	6,027.00	6,033.00	5,890.09	42.83	24.51	54.43	2,420.73	-1,337.89	938.82	878.89	59.92	15.667		
7,600.00	6,027.00	6,033.00	5,890.09	43.88	24.51	54.43	2,420.73	-1,337.89	841.69	781.22	60.46	13.920		
7,700.00	6,027.00	6,033.00	5,890.09	44.99	24.51	54.43	2,420.73	-1,337.89	745.31	684.19	61.12	12.194		
7,800.00	6,027.00	6,033.00	5,890.09	46.14	24.51	54.43	2,420.73	-1,337.89	650.03	588.10	61.93	10.497		
7,900.00	6,027.00	6,033.00	5,890.09	47.33	24.51	54.43	2,420.73	-1,337.89	556.41	493.49	62.93	8.842		
8,000.00	6,027.00	6,033.00	5,890.09	48.57	24.51	54.43	2,420.73	-1,337.89	465.46	401.30	64.15	7.255		
8,100.00	6,027.00	6,033.00	5,890.09	49.84	24.51	54.43	2,420.73	-1,337.89	379.08	313.52	65.57	5.782		
8,200.00	6,027.00	6,024.19	5,883.30	51.15	24.50	52.04	2,420.94	-1,343.51	301.10	235.16	65.94	4.566		
8,300.00	6,027.00	6,022.43	5,881.93	52.48	24.50	51.56	2,420.98	-1,344.62	240.15	175.49	64.66	3.714		
8,400.00	6,027.00	6,020.73	5,880.62	53.85	24.50	51.10	2,421.01	-1,345.69	211.36	153.43	57.93	3.649 ES, SF		
8,415.01	6,027.00	6,020.48	5,880.42	54.05	24.50	51.04	2,421.02	-1,345.84	210.83	154.40	56.43	3.736 CC		
8,500.00	6,027.00	6,019.10	5,879.35	55.24	24.50	50.66	2,421.05	-1,346.71	227.31	179.30	48.01	4.734		
8,600.00	6,027.00	6,017.54	5,878.13	56.65	24.49	50.24	2,421.08	-1,347.69	280.46	237.26	43.20	6.493		
8,700.00	6,027.00	6,016.03	5,876.95	58.08	24.49	49.83	2,421.11	-1,348.63	354.46	311.19	43.26	8.193		
8,800.00	6,027.00	6,014.57	5,875.81	59.54	24.49	49.43	2,421.14	-1,349.54	438.88	394.12	44.76	9.806		
8,900.00	6,027.00	6,013.17	5,874.71	61.01	24.49	49.05	2,421.17	-1,350.41	528.76	482.48	46.28	11.426		
9,000.00	6,027.00	6,011.82	5,873.65	62.50	24.49	48.68	2,421.19	-1,351.25	621.73	574.19	47.54	13.077		
9,100.00	6,027.00	6,010.51	5,872.63	64.01	24.48	48.33	2,421.22	-1,352.06	716.60	668.04	48.56	14.757		
9,200.00	6,027.00	6,009.24	5,871.63	65.53	24.48	47.99	2,421.24	-1,352.84	812.69	763.31	49.37	16.460		
9,300.00	6,027.00	6,008.02	5,870.67	67.06	24.48	47.66	2,421.26	-1,353.59	909.62	859.58	50.04	18.178		
9,400.00	6,027.00	6,006.84	5,869.74	68.61	24.48	47.34	2,421.28	-1,354.32	1,007.15	956.57	50.59	19.909		
9,500.00	6,027.00	6,005.70	5,868.84	70.17	24.48	47.03	2,421.30	-1,355.02	1,105.13	1,054.08	51.05	21.648		
9,600.00	6,027.00	6,004.59	5,867.96	71.73	24.48	46.73	2,421.32	-1,355.70	1,203.43	1,151.99	51.44	23.394		
9,700.00	6,027.00	6,003.52	5,867.11	73.31	24.47	46.44	2,421.34	-1,356.36	1,301.99	1,250.21	51.78	25.144		
9,800.00	6,027.00	6,002.48	5,866.29	74.90	24.47	46.16	2,421.36	-1,356.99	1,400.75	1,348.68	52.08	26.898		
9,900.00	6,027.00	6,001.47	5,865.49	76.50	24.47	45.89	2,421.37	-1,357.60	1,499.68	1,447.34	52.34	28.654		
10,000.00	6,027.00	6,000.49	5,864.71	78.10	24.47	45.63	2,421.39	-1,358.20	1,598.74	1,546.17	52.57	30.411		
10,100.00	6,027.00	5,999.55	5,863.96	79.71	24.47	45.37	2,421.40	-1,358.77	1,697.90	1,645.12	52.78	32.170		
10,200.00	6,027.00	5,998.62	5,863.23	81.33	24.47	45.13	2,421.42	-1,359.33	1,797.16	1,744.19	52.97	33.928		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN 13-43-9HNB - STK 1 - STK 1													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG, 7720-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	5,997.73	5,862.51	82.96	24.47	44.89	2,421.43	-1,359.87	1,896.50	1,843.36	53.14	35.687		
10,400.00	6,027.00	5,996.86	5,861.82	84.59	24.47	44.66	2,421.45	-1,360.40	1,995.90	1,942.60	53.30	37.445		
10,500.00	6,027.00	5,996.01	5,861.15	86.23	24.46	44.43	2,421.46	-1,360.91	2,095.36	2,041.91	53.45	39.202		
10,600.00	6,027.00	5,995.19	5,860.49	87.87	24.46	44.21	2,421.47	-1,361.41	2,194.87	2,141.28	53.59	40.959		
10,700.00	6,027.00	5,994.39	5,859.85	89.52	24.46	44.00	2,421.48	-1,361.89	2,294.42	2,240.70	53.72	42.714		
10,800.00	6,027.00	5,993.61	5,859.23	91.17	24.46	43.79	2,421.49	-1,362.35	2,394.00	2,340.17	53.84	44.468		
10,900.00	6,027.00	5,992.85	5,858.62	92.83	24.46	43.59	2,421.51	-1,362.81	2,493.62	2,439.67	53.95	46.220		
11,000.00	6,027.00	5,992.11	5,858.03	94.49	24.46	43.39	2,421.52	-1,363.25	2,593.27	2,539.21	54.06	47.971		
11,100.00	6,027.00	5,991.39	5,857.45	96.16	24.46	43.20	2,421.53	-1,363.68	2,692.94	2,638.78	54.16	49.720		
11,200.00	6,027.00	5,990.69	5,856.89	97.83	24.46	43.02	2,421.54	-1,364.10	2,792.64	2,738.38	54.26	51.467		
11,300.00	6,027.00	5,990.01	5,856.34	99.50	24.46	42.84	2,421.54	-1,364.51	2,892.36	2,838.00	54.36	53.212		
11,400.00	6,027.00	5,989.34	5,855.80	101.18	24.46	42.66	2,421.55	-1,364.91	2,992.09	2,937.65	54.45	54.955		
11,500.00	6,027.00	5,988.69	5,855.28	102.86	24.45	42.49	2,421.56	-1,365.29	3,091.84	3,037.31	54.53	56.696		
11,600.00	6,027.00	5,988.05	5,854.77	104.54	24.45	42.32	2,421.57	-1,365.67	3,191.61	3,136.99	54.62	58.434		
11,700.00	6,027.00	5,987.43	5,854.27	106.23	24.45	42.16	2,421.58	-1,366.04	3,291.39	3,236.69	54.70	60.170		
11,800.00	6,027.00	5,986.83	5,853.78	107.92	24.45	42.00	2,421.59	-1,366.40	3,391.19	3,336.41	54.78	61.903		
11,900.00	6,027.00	5,986.23	5,853.31	109.61	24.45	41.85	2,421.59	-1,366.75	3,490.99	3,436.13	54.86	63.634		
12,000.00	6,027.00	5,985.66	5,852.84	111.31	24.45	41.70	2,421.60	-1,367.09	3,590.81	3,535.87	54.94	65.362		
12,100.00	6,027.00	5,985.09	5,852.38	113.00	24.45	41.55	2,421.61	-1,367.42	3,690.64	3,635.62	55.01	67.088		
12,200.00	6,027.00	5,984.54	5,851.94	114.71	24.45	41.41	2,421.61	-1,367.75	3,790.47	3,735.39	55.09	68.811		
12,300.00	6,027.00	5,984.00	5,851.50	116.41	24.45	41.26	2,421.62	-1,368.07	3,890.32	3,835.16	55.16	70.531		
12,400.00	6,027.00	5,983.47	5,851.08	118.11	24.45	41.13	2,421.63	-1,368.38	3,990.17	3,934.94	55.23	72.248		
12,500.00	6,027.00	5,982.96	5,850.66	119.82	24.45	40.99	2,421.63	-1,368.68	4,090.02	4,034.73	55.30	73.962		
12,600.00	6,027.00	5,982.45	5,850.25	121.53	24.45	40.86	2,421.64	-1,368.98	4,189.89	4,134.52	55.37	75.673		
12,700.00	6,027.00	5,981.96	5,849.85	123.24	24.45	40.73	2,421.64	-1,369.27	4,289.76	4,234.32	55.44	77.381		
12,800.00	6,027.00	5,981.47	5,849.46	124.95	24.44	40.61	2,421.65	-1,369.56	4,389.64	4,334.13	55.50	79.086		
12,900.00	6,027.00	5,981.00	5,849.07	126.66	24.44	40.49	2,421.66	-1,369.83	4,489.52	4,433.95	55.57	80.788		
13,000.00	6,027.00	5,980.53	5,848.70	128.38	24.44	40.37	2,421.66	-1,370.11	4,589.41	4,533.77	55.64	82.487		
13,100.00	6,027.00	5,980.08	5,848.33	130.10	24.44	40.25	2,421.67	-1,370.37	4,689.30	4,633.59	55.70	84.183		
13,200.00	6,027.00	5,979.63	5,847.97	131.82	24.44	40.13	2,421.67	-1,370.63	4,789.19	4,733.43	55.77	85.875		
13,300.00	6,027.00	5,979.20	5,847.61	133.54	24.44	40.02	2,421.68	-1,370.89	4,889.10	4,833.26	55.83	87.564		
13,400.00	6,027.00	5,978.77	5,847.27	135.26	24.44	39.91	2,421.68	-1,371.14	4,989.00	4,933.10	55.90	89.249		
13,500.00	6,027.00	5,978.35	5,846.92	136.98	24.44	39.80	2,421.68	-1,371.38	5,088.91	5,032.94	55.96	90.932		
13,600.00	6,027.00	5,977.94	5,846.59	138.71	24.44	39.70	2,421.69	-1,371.62	5,188.82	5,132.79	56.03	92.610		
13,700.00	6,027.00	5,977.53	5,846.26	140.43	24.44	39.60	2,421.69	-1,371.86	5,288.73	5,232.64	56.09	94.286		
13,800.00	6,027.00	5,977.14	5,845.94	142.16	24.44	39.49	2,421.70	-1,372.09	5,388.65	5,332.49	56.16	95.957		
13,900.00	6,027.00	5,976.75	5,845.62	143.89	24.44	39.39	2,421.70	-1,372.31	5,488.57	5,432.35	56.22	97.625		
14,000.00	6,027.00	5,976.37	5,845.31	145.62	24.44	39.30	2,421.70	-1,372.54	5,588.50	5,532.21	56.28	99.290		
14,100.00	6,027.00	5,975.99	5,845.01	147.35	24.44	39.20	2,421.71	-1,372.75	5,688.42	5,632.07	56.35	100.951		
14,200.00	6,027.00	5,975.63	5,844.71	149.08	24.44	39.11	2,421.71	-1,372.97	5,788.35	5,731.94	56.41	102.608		
14,300.00	6,027.00	5,975.27	5,844.42	150.81	24.44	39.02	2,421.72	-1,373.17	5,888.28	5,831.81	56.48	104.262		
14,400.00	6,027.00	5,974.91	5,844.13	152.54	24.44	38.93	2,421.72	-1,373.38	5,988.21	5,931.67	56.54	105.911		
14,500.00	6,027.00	5,974.57	5,843.85	154.28	24.44	38.84	2,421.72	-1,373.58	6,088.15	6,031.55	56.60	107.557		
14,600.00	6,027.00	5,974.22	5,843.57	156.01	24.44	38.75	2,421.73	-1,373.78	6,188.09	6,131.42	56.67	109.200		
14,700.00	6,027.00	5,973.89	5,843.29	157.75	24.43	38.67	2,421.73	-1,373.97	6,288.03	6,231.29	56.73	110.838		
14,800.00	6,027.00	5,973.56	5,843.03	159.49	24.43	38.58	2,421.73	-1,374.16	6,387.97	6,331.17	56.80	112.472		
14,900.00	6,027.00	5,973.23	5,842.76	161.22	24.43	38.50	2,421.73	-1,374.35	6,487.91	6,431.05	56.86	114.103		
15,000.00	6,027.00	5,972.92	5,842.50	162.96	24.43	38.42	2,421.74	-1,374.53	6,587.85	6,530.93	56.92	115.730		
15,100.00	6,027.00	5,972.60	5,842.25	164.70	24.43	38.34	2,421.74	-1,374.71	6,687.80	6,630.81	56.99	117.352		
15,200.00	6,027.00	5,972.30	5,841.99	166.44	24.43	38.26	2,421.74	-1,374.89	6,787.75	6,730.70	57.05	118.971		
15,300.00	6,027.00	5,971.99	5,841.75	168.18	24.43	38.19	2,421.75	-1,375.07	6,887.70	6,830.58	57.12	120.586		
15,400.00	6,027.00	5,971.70	5,841.50	169.93	24.43	38.11	2,421.75	-1,375.24	6,987.65	6,930.46	57.18	122.196		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 9-T5N-R61W - EXIST HZ PRONGHORN 13-43-9HNB - STK 1 - STK 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 17-MWD OWSG, 7720-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	6,027.00	5,971.40	5,841.26	171.67	24.43	38.04	2,421.75	-1,375.41	7,087.60	7,030.35	57.25	123.803	
15,600.00	6,027.00	5,799.00	5,689.21	173.41	24.16	9.52	2,425.75	-1,455.49	7,187.73	7,129.86	57.87	124.204	
15,700.00	6,027.00	5,799.00	5,689.21	175.15	24.16	9.52	2,425.75	-1,455.49	7,287.63	7,229.69	57.93	125.798	
15,800.00	6,027.00	5,799.00	5,689.21	176.90	24.16	9.52	2,425.75	-1,455.49	7,387.53	7,329.53	57.99	127.389	
15,900.00	6,027.00	5,799.00	5,689.21	178.64	24.16	9.52	2,425.75	-1,455.49	7,487.43	7,429.37	58.05	128.976	
16,000.00	6,027.00	5,799.00	5,689.21	180.39	24.16	9.52	2,425.75	-1,455.49	7,587.33	7,529.22	58.11	130.558	
16,100.00	6,027.00	5,799.00	5,689.21	182.13	24.16	9.52	2,425.75	-1,455.49	7,687.24	7,629.06	58.18	132.137	
16,200.00	6,027.00	5,799.00	5,689.21	183.88	24.16	9.52	2,425.75	-1,455.49	7,787.15	7,728.91	58.24	133.711	
16,300.00	6,027.00	5,799.00	5,689.21	185.63	24.16	9.52	2,425.75	-1,455.49	7,887.06	7,828.76	58.30	135.281	
16,400.00	6,027.00	5,799.00	5,689.21	187.38	24.16	9.52	2,425.75	-1,455.49	7,986.98	7,928.61	58.36	136.848	
16,500.00	6,027.00	5,799.00	5,689.21	189.12	24.16	9.52	2,425.75	-1,455.49	8,086.89	8,028.47	58.43	138.410	
16,600.00	6,027.00	5,799.00	5,689.21	190.87	24.16	9.52	2,425.75	-1,455.49	8,186.81	8,128.32	58.49	139.967	
16,700.00	6,027.00	5,777.96	5,669.45	192.62	24.12	7.81	2,426.72	-1,462.65	8,286.52	8,227.92	58.60	141.418	
16,795.97	6,027.00	5,777.52	5,669.04	194.30	24.12	7.78	2,426.74	-1,462.79	8,382.40	8,323.74	58.66	142.903	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN 14-44-9HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	84.32	84.32	0.27	0.24	-36.47	1,661.31	-1,228.08	2,065.95	2,065.44	0.51	4,049.098		
200.00	200.00	181.90	181.90	0.63	0.59	-36.47	1,661.40	-1,228.19	2,066.09	2,064.87	1.22	1,695.595		
300.00	300.00	279.47	279.47	0.99	0.94	-36.48	1,661.57	-1,228.39	2,066.35	2,064.42	1.93	1,072.438		
400.00	400.00	377.04	377.04	1.34	1.29	-36.48	1,661.81	-1,228.68	2,066.72	2,064.09	2.64	784.325		
500.00	500.00	476.33	476.33	1.70	1.64	-36.48	1,662.13	-1,229.05	2,067.21	2,063.86	3.35	617.541		
600.00	600.00	582.05	582.04	2.06	2.01	-36.48	1,662.42	-1,229.24	2,067.54	2,063.46	4.08	507.290		
700.00	700.00	684.57	684.57	2.42	2.37	-36.47	1,662.62	-1,229.13	2,067.62	2,062.83	4.79	431.343		
800.00	800.00	782.58	782.58	2.78	2.72	-36.47	1,662.80	-1,229.07	2,067.74	2,062.24	5.50	376.190		
900.00	900.00	880.72	880.71	3.14	3.07	-36.47	1,663.03	-1,229.12	2,067.95	2,061.75	6.20	333.399		
1,000.00	999.98	978.97	978.97	3.49	3.42	52.84	1,663.37	-1,229.14	2,067.19	2,060.29	6.90	299.428		
1,100.00	1,099.84	1,077.80	1,077.80	3.83	3.77	53.01	1,663.82	-1,229.15	2,064.41	2,056.80	7.60	271.541		
1,200.00	1,199.45	1,177.01	1,177.00	4.19	4.12	53.28	1,664.19	-1,229.33	2,059.57	2,051.26	8.31	247.877		
1,300.00	1,298.70	1,272.51	1,272.50	4.55	4.46	53.65	1,664.51	-1,229.64	2,052.75	2,043.74	9.01	227.801		
1,400.00	1,397.47	1,365.54	1,365.53	4.94	4.80	54.12	1,665.13	-1,229.95	2,044.19	2,034.48	9.72	210.370		
1,500.00	1,495.62	1,462.97	1,462.95	5.34	5.15	54.73	1,666.04	-1,230.27	2,033.91	2,023.45	10.46	194.523		
1,600.00	1,593.06	1,563.36	1,563.34	5.78	5.50	55.46	1,666.83	-1,230.63	2,021.67	2,010.44	11.23	180.073		
1,700.00	1,689.64	1,665.94	1,665.92	6.24	5.87	56.33	1,667.39	-1,231.00	2,007.47	1,995.44	12.03	166.891		
1,800.00	1,785.27	1,768.87	1,768.85	6.75	6.23	57.32	1,667.58	-1,231.27	1,991.28	1,978.42	12.86	154.805		
1,900.00	1,880.44	1,876.79	1,876.77	7.30	6.60	58.13	1,667.34	-1,231.29	1,974.12	1,960.39	13.73	143.826		
2,000.00	1,975.60	2,037.50	2,037.36	7.86	7.13	59.28	1,661.72	-1,231.99	1,954.48	1,939.72	14.76	132.422		
2,100.00	2,070.77	2,132.36	2,132.10	8.43	7.45	59.95	1,666.93	-1,232.64	1,934.34	1,918.73	15.61	123.913		
2,200.00	2,165.93	2,280.70	2,280.12	9.02	7.96	60.99	1,647.47	-1,233.78	1,913.55	1,896.92	16.63	115.067		
2,300.00	2,261.10	2,427.85	2,426.42	9.62	8.47	61.94	1,632.09	-1,235.82	1,889.68	1,872.03	17.65	107.087		
2,400.00	2,356.26	2,574.79	2,571.66	10.23	9.00	62.75	1,610.39	-1,240.44	1,863.17	1,844.51	18.66	99.835		
2,500.00	2,451.43	2,754.56	2,747.57	10.84	9.69	63.53	1,574.82	-1,250.27	1,833.82	1,814.07	19.74	92.885		
2,600.00	2,546.59	2,850.06	2,840.05	11.46	10.09	63.84	1,552.19	-1,257.67	1,802.29	1,781.63	20.67	87.213		
2,700.00	2,641.76	2,939.14	2,925.75	12.09	10.47	64.04	1,529.99	-1,267.48	1,771.18	1,749.59	21.60	82.016		
2,800.00	2,736.92	3,065.52	3,046.42	12.72	11.05	64.22	1,495.97	-1,283.35	1,739.00	1,716.39	22.61	76.897		
2,900.00	2,832.09	3,226.31	3,198.25	13.35	11.84	64.32	1,447.74	-1,305.00	1,704.80	1,681.11	23.70	71.934		
3,000.00	2,927.25	3,335.96	3,300.67	13.99	12.43	64.33	1,411.53	-1,319.95	1,667.90	1,643.19	24.72	67.480		
3,100.00	3,022.42	3,444.18	3,401.17	14.63	13.04	64.29	1,374.38	-1,335.16	1,630.04	1,604.30	25.75	63.314		
3,200.00	3,117.58	3,531.31	3,482.19	15.27	13.54	64.29	1,344.42	-1,346.48	1,591.71	1,564.95	26.76	59.486		
3,300.00	3,212.75	3,602.48	3,548.81	15.91	13.95	64.32	1,320.98	-1,355.29	1,554.36	1,526.60	27.76	55.988		
3,400.00	3,307.91	3,669.44	3,612.02	16.56	14.33	64.41	1,300.32	-1,363.10	1,518.48	1,489.71	28.77	52.784		
3,500.00	3,403.08	3,747.85	3,686.55	17.20	14.77	64.55	1,277.59	-1,371.81	1,483.96	1,454.17	29.79	49.815		
3,600.00	3,498.24	3,825.65	3,760.72	17.85	15.20	64.72	1,255.78	-1,380.53	1,450.34	1,419.52	30.82	47.064		
3,700.00	3,593.41	3,915.73	3,846.90	18.50	15.70	64.94	1,231.59	-1,390.64	1,417.74	1,385.88	31.86	44.502		
3,800.00	3,688.57	4,017.24	3,944.11	19.15	16.26	65.24	1,204.20	-1,400.87	1,384.57	1,351.66	32.91	42.075		
3,900.00	3,783.74	4,118.34	4,040.79	19.81	16.83	65.53	1,176.57	-1,411.42	1,351.30	1,317.34	33.96	39.792		
4,000.00	3,878.90	4,209.56	4,127.77	20.46	17.35	65.78	1,150.90	-1,421.28	1,317.51	1,282.49	35.01	37.627		
4,100.00	3,974.07	4,308.01	4,221.93	21.11	17.92	66.10	1,124.03	-1,431.37	1,284.25	1,248.19	36.07	35.606		
4,200.00	4,069.23	4,402.91	4,312.71	21.77	18.46	66.47	1,097.75	-1,440.02	1,250.22	1,213.10	37.12	33.679		
4,300.00	4,164.40	4,506.95	4,412.26	22.42	19.06	66.90	1,069.09	-1,449.68	1,216.46	1,178.29	38.16	31.874		
4,400.00	4,259.56	4,600.56	4,501.61	23.08	19.60	67.30	1,042.42	-1,457.90	1,181.70	1,142.48	39.22	30.131		
4,500.00	4,354.73	4,675.06	4,573.08	23.74	20.02	67.70	1,022.24	-1,463.76	1,147.89	1,107.59	40.30	28.482		
4,600.00	4,449.89	4,742.94	4,638.76	24.39	20.39	68.16	1,005.70	-1,468.38	1,116.15	1,074.76	41.39	26.964		
4,700.00	4,545.06	4,821.00	4,714.83	25.05	20.79	68.76	989.06	-1,473.75	1,087.09	1,044.63	42.46	25.602		
4,800.00	4,640.22	4,874.28	4,767.09	25.71	21.05	69.23	979.30	-1,477.25	1,060.55	1,017.01	43.54	24.360		
4,900.00	4,735.39	4,940.56	4,832.49	26.37	21.35	69.92	969.21	-1,480.81	1,036.96	992.39	44.57	23.264		
5,000.00	4,830.55	5,011.00	4,902.37	27.03	21.65	70.75	960.97	-1,484.08	1,016.52	970.94	45.58	22.301		
5,100.00	4,925.72	5,079.07	4,970.13	27.69	21.91	71.64	955.07	-1,486.79	999.02	952.47	46.55	21.459		
5,200.00	5,020.88	5,155.72	5,046.59	28.35	22.18	72.74	950.32	-1,489.12	984.10	936.59	47.51	20.714		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN 14-44-9HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,237.74	5,128.54	29.01	22.45	74.05	947.16	-1,490.30	971.51	923.05	48.45	20.050		
5,400.00	5,211.21	5,324.86	5,215.62	29.67	22.73	75.52	944.87	-1,490.98	960.64	911.25	49.40	19.447		
5,500.00	5,306.38	5,413.93	5,304.69	30.33	23.00	77.09	943.40	-1,491.26	951.41	901.08	50.34	18.900		
5,600.00	5,401.54	5,507.96	5,398.70	30.99	23.29	78.78	942.22	-1,491.26	943.40	892.11	51.29	18.395		
5,700.00	5,496.71	5,595.01	5,485.75	31.65	23.54	76.26	941.39	-1,490.73	936.38	884.19	52.19	17.942		
5,800.00	5,591.13	5,667.17	5,557.79	32.30	23.73	50.57	942.60	-1,487.03	921.49	868.54	52.96	17.401		
5,900.00	5,682.22	5,821.37	5,708.05	32.92	24.06	38.35	945.51	-1,454.34	890.75	836.83	53.92	16.521		
6,000.00	5,767.23	5,903.94	5,784.09	33.50	24.22	32.68	943.24	-1,422.39	841.70	787.13	54.57	15.424		
6,100.00	5,843.56	5,952.79	5,826.51	34.04	24.30	30.59	941.65	-1,398.26	781.76	726.70	55.06	14.198		
6,200.00	5,908.90	5,987.00	5,854.67	34.53	24.35	31.14	940.49	-1,378.88	713.49	658.13	55.35	12.889		
6,300.00	5,961.25	6,006.17	5,869.81	34.99	24.38	33.23	939.91	-1,367.14	638.77	583.41	55.36	11.539		
6,400.00	5,999.04	6,017.93	5,878.88	35.42	24.39	37.20	939.65	-1,359.65	559.03	503.97	55.05	10.155		
6,500.00	6,021.11	6,032.00	5,889.47	35.83	24.41	45.14	939.44	-1,350.40	475.54	420.91	54.63	8.704		
6,600.00	6,027.00	6,032.00	5,889.47	36.24	24.41	52.17	939.44	-1,350.40	389.54	335.83	53.71	7.253		
6,700.00	6,027.00	6,032.00	5,889.47	36.68	24.41	52.17	939.44	-1,350.40	308.30	256.30	52.01	5.928		
6,800.00	6,027.00	6,023.32	5,882.97	37.20	24.40	49.70	939.56	-1,356.14	241.35	193.93	47.42	5.090		
6,900.00	6,027.00	6,022.21	5,882.13	37.80	24.40	49.38	939.57	-1,356.87	203.81	163.41	40.40	5.045 SF		
6,933.58	6,027.00	6,021.82	5,881.83	38.01	24.40	49.27	939.58	-1,357.13	201.03	162.81	38.21	5.261 CC, ES		
7,000.00	6,027.00	6,021.01	5,881.22	38.47	24.39	49.04	939.59	-1,357.65	211.71	174.80	36.91	5.735		
7,100.00	6,027.00	6,019.71	5,880.23	39.21	24.39	48.67	939.62	-1,358.50	260.96	219.37	41.59	6.274		
7,200.00	6,027.00	6,018.30	5,879.15	40.02	24.39	48.27	939.64	-1,359.41	333.73	287.62	46.11	7.238		
7,300.00	6,027.00	6,016.76	5,877.98	40.89	24.39	47.83	939.67	-1,360.41	417.91	369.09	48.81	8.561		
7,400.00	6,027.00	6,015.07	5,876.68	41.83	24.39	47.35	939.70	-1,361.50	507.85	457.42	50.43	10.071		
7,500.00	6,027.00	6,013.21	5,875.26	42.83	24.38	46.82	939.74	-1,362.68	600.97	549.52	51.45	11.680		
7,600.00	6,027.00	6,011.16	5,873.68	43.88	24.38	46.24	939.79	-1,363.99	696.00	643.85	52.14	13.348		
7,700.00	6,027.00	6,008.88	5,871.92	44.99	24.38	45.59	939.84	-1,365.44	792.24	739.60	52.64	15.051		
7,800.00	6,027.00	6,006.34	5,869.94	46.14	24.38	44.87	939.90	-1,367.04	889.31	836.30	53.01	16.777		
7,900.00	6,027.00	6,003.47	5,867.71	47.33	24.37	44.07	939.98	-1,368.83	986.96	933.66	53.30	18.517		
8,000.00	6,027.00	6,000.23	5,865.17	48.57	24.37	43.16	940.07	-1,370.84	1,085.03	1,031.49	53.53	20.268		
8,100.00	6,027.00	5,996.53	5,862.25	49.84	24.37	42.13	940.17	-1,373.12	1,183.41	1,129.68	53.73	22.025		
8,200.00	6,027.00	5,992.27	5,858.87	51.15	24.36	40.95	940.31	-1,375.71	1,282.03	1,228.13	53.90	23.786		
8,300.00	6,027.00	5,987.30	5,854.91	52.48	24.36	39.60	940.48	-1,378.70	1,380.84	1,326.79	54.05	25.548		
8,400.00	6,027.00	5,987.00	5,854.67	53.85	24.35	39.51	940.49	-1,378.88	1,479.81	1,425.65	54.16	27.324		
8,500.00	6,027.00	5,987.00	5,854.67	55.24	24.35	39.51	940.49	-1,378.88	1,578.90	1,524.65	54.25	29.104		
8,600.00	6,027.00	5,987.00	5,854.67	56.65	24.35	39.51	940.49	-1,378.88	1,678.10	1,623.77	54.33	30.886		
8,700.00	6,027.00	5,978.13	5,847.50	58.08	24.34	37.14	940.80	-1,384.10	1,777.36	1,722.91	54.45	32.639		
8,800.00	6,027.00	5,975.95	5,845.73	59.54	24.34	36.57	940.88	-1,385.36	1,876.71	1,822.18	54.53	34.414		
8,900.00	6,027.00	5,973.79	5,843.97	61.01	24.33	36.01	940.95	-1,386.60	1,976.12	1,921.52	54.61	36.189		
9,000.00	6,027.00	5,971.66	5,842.22	62.50	24.33	35.46	941.03	-1,387.82	2,075.59	2,020.91	54.67	37.963		
9,100.00	6,027.00	5,969.56	5,840.49	64.01	24.33	34.92	941.10	-1,389.02	2,175.10	2,120.36	54.74	39.737		
9,200.00	6,027.00	5,967.48	5,838.77	65.53	24.33	34.39	941.17	-1,390.19	2,274.65	2,219.85	54.80	41.510		
9,300.00	6,027.00	5,965.42	5,837.07	67.06	24.32	33.88	941.24	-1,391.34	2,374.23	2,319.38	54.86	43.281		
9,400.00	6,027.00	5,963.39	5,835.39	68.61	24.32	33.37	941.31	-1,392.48	2,473.85	2,418.94	54.91	45.052		
9,500.00	6,027.00	5,961.39	5,833.72	70.17	24.32	32.88	941.37	-1,393.59	2,573.49	2,518.53	54.96	46.821		
9,600.00	6,027.00	5,959.40	5,832.06	71.73	24.31	32.39	941.44	-1,394.68	2,673.16	2,618.14	55.02	48.589		
9,700.00	6,027.00	5,957.44	5,830.42	73.31	24.31	31.92	941.50	-1,395.75	2,772.85	2,717.78	55.07	50.354		
9,800.00	6,027.00	5,955.51	5,828.80	74.90	24.31	31.45	941.57	-1,396.80	2,872.55	2,817.44	55.12	52.119		
9,900.00	6,027.00	5,953.59	5,827.19	76.50	24.31	31.00	941.63	-1,397.83	2,972.28	2,917.12	55.16	53.881		
10,000.00	6,027.00	5,951.70	5,825.59	78.10	24.30	30.55	941.69	-1,398.85	3,072.02	3,016.81	55.21	55.642		
10,100.00	6,027.00	5,940.00	5,815.63	79.71	24.29	27.90	942.06	-1,404.98	3,171.80	3,116.50	55.30	57.356		
10,200.00	6,027.00	5,940.00	5,815.63	81.33	24.29	27.90	942.06	-1,404.98	3,271.56	3,216.22	55.34	59.120		
10,300.00	6,027.00	5,940.00	5,815.63	82.96	24.29	27.90	942.06	-1,404.98	3,371.34	3,315.96	55.38	60.882		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,940.00	5,815.63	84.59	24.29	27.90	942.06	-1,404.98	3,471.12	3,415.71	55.41	62.642		
10,500.00	6,027.00	5,940.00	5,815.63	86.23	24.29	27.90	942.06	-1,404.98	3,570.92	3,515.47	55.45	64.400		
10,600.00	6,027.00	5,940.00	5,815.63	87.87	24.29	27.90	942.06	-1,404.98	3,670.73	3,615.24	55.49	66.156		
10,700.00	6,027.00	5,938.34	5,814.21	89.52	24.28	27.53	942.11	-1,405.83	3,770.55	3,715.02	55.53	67.901		
10,800.00	6,027.00	5,935.24	5,811.54	91.17	24.28	26.87	942.21	-1,407.40	3,870.38	3,814.80	55.58	69.636		
10,900.00	6,027.00	5,932.09	5,808.82	92.83	24.27	26.20	942.31	-1,408.99	3,970.21	3,914.58	55.63	71.369		
11,000.00	6,027.00	5,928.88	5,806.04	94.49	24.27	25.54	942.41	-1,410.58	4,070.05	4,014.37	55.68	73.098		
11,100.00	6,027.00	5,925.61	5,803.20	96.16	24.26	24.87	942.52	-1,412.19	4,169.89	4,114.16	55.73	74.824		
11,200.00	6,027.00	5,922.28	5,800.29	97.83	24.25	24.21	942.62	-1,413.81	4,269.74	4,213.96	55.78	76.546		
11,300.00	6,027.00	5,918.89	5,797.32	99.50	24.25	23.55	942.74	-1,415.44	4,369.59	4,313.76	55.83	78.266		
11,400.00	6,027.00	5,915.44	5,794.28	101.18	24.24	22.90	942.85	-1,417.08	4,469.45	4,413.57	55.88	79.982		
11,500.00	6,027.00	5,911.92	5,791.17	102.86	24.24	22.24	942.97	-1,418.73	4,569.31	4,513.38	55.93	81.695		
11,600.00	6,027.00	5,908.33	5,787.99	104.54	24.23	21.60	943.09	-1,420.39	4,669.17	4,613.19	55.98	83.404		
11,700.00	6,027.00	5,904.67	5,784.74	106.23	24.22	20.95	943.21	-1,422.06	4,769.04	4,713.01	56.03	85.110		
11,800.00	6,027.00	5,900.95	5,781.42	107.92	24.22	20.31	943.34	-1,423.73	4,868.91	4,812.83	56.09	86.813		
11,900.00	6,027.00	5,897.15	5,778.01	109.61	24.21	19.68	943.47	-1,425.42	4,968.78	4,912.65	56.14	88.512		
12,000.00	6,027.00	5,894.00	5,775.18	111.31	24.21	19.17	943.59	-1,426.80	5,068.66	5,012.47	56.19	90.211		
12,100.00	6,027.00	5,894.00	5,775.18	113.00	24.21	19.17	943.59	-1,426.80	5,168.54	5,112.31	56.23	91.924		
12,200.00	6,027.00	5,894.00	5,775.18	114.71	24.21	19.17	943.59	-1,426.80	5,268.42	5,212.15	56.27	93.633		
12,300.00	6,027.00	5,894.00	5,775.18	116.41	24.21	19.17	943.59	-1,426.80	5,368.31	5,312.00	56.31	95.339		
12,400.00	6,027.00	5,894.00	5,775.18	118.11	24.21	19.17	943.59	-1,426.80	5,468.20	5,411.85	56.35	97.042		
12,500.00	6,027.00	5,894.00	5,775.18	119.82	24.21	19.17	943.59	-1,426.80	5,568.10	5,511.71	56.39	98.742		
12,600.00	6,027.00	5,894.00	5,775.18	121.53	24.21	19.17	943.59	-1,426.80	5,668.00	5,611.56	56.43	100.439		
12,700.00	6,027.00	5,894.00	5,775.18	123.24	24.21	19.17	943.59	-1,426.80	5,767.90	5,711.42	56.47	102.133		
12,800.00	6,027.00	5,894.00	5,775.18	124.95	24.21	19.17	943.59	-1,426.80	5,867.81	5,811.29	56.52	103.823		
12,900.00	6,027.00	5,894.00	5,775.18	126.66	24.21	19.17	943.59	-1,426.80	5,967.71	5,911.15	56.56	105.510		
13,000.00	6,027.00	5,894.00	5,775.18	128.38	24.21	19.17	943.59	-1,426.80	6,067.63	6,011.02	56.60	107.194		
13,100.00	6,027.00	5,894.00	5,775.18	130.10	24.21	19.17	943.59	-1,426.80	6,167.54	6,110.89	56.65	108.874		
13,200.00	6,027.00	5,894.00	5,775.18	131.82	24.21	19.17	943.59	-1,426.80	6,267.46	6,210.77	56.69	110.550		
13,300.00	6,027.00	5,894.00	5,775.18	133.54	24.21	19.17	943.59	-1,426.80	6,367.38	6,310.64	56.74	112.224		
13,400.00	6,027.00	5,877.41	5,760.15	135.26	24.17	16.66	944.13	-1,433.79	6,467.24	6,410.41	56.83	113.798		
13,500.00	6,027.00	5,876.40	5,759.23	136.98	24.17	16.52	944.16	-1,434.21	6,567.16	6,510.28	56.88	115.457		
13,600.00	6,027.00	5,875.40	5,758.32	138.71	24.17	16.38	944.19	-1,434.61	6,667.08	6,610.15	56.93	117.113		
13,700.00	6,027.00	5,874.42	5,757.42	140.43	24.17	16.24	944.22	-1,435.01	6,767.00	6,710.02	56.98	118.765		
13,800.00	6,027.00	5,873.46	5,756.54	142.16	24.17	16.11	944.25	-1,435.40	6,866.92	6,809.89	57.03	120.414		
13,900.00	6,027.00	5,872.51	5,755.68	143.89	24.16	15.98	944.28	-1,435.78	6,966.85	6,909.77	57.08	122.059		
14,000.00	6,027.00	5,871.58	5,754.83	145.62	24.16	15.85	944.31	-1,436.15	7,066.77	7,009.65	57.13	123.700		
14,100.00	6,027.00	5,870.67	5,753.99	147.35	24.16	15.73	944.33	-1,436.52	7,166.70	7,109.52	57.18	125.338		
14,200.00	6,027.00	5,869.77	5,753.16	149.08	24.16	15.61	944.36	-1,436.87	7,266.63	7,209.40	57.23	126.971		
14,300.00	6,027.00	5,868.88	5,752.35	150.81	24.16	15.49	944.39	-1,437.22	7,366.57	7,309.28	57.28	128.601		
14,400.00	6,027.00	5,868.01	5,751.55	152.54	24.16	15.37	944.41	-1,437.57	7,466.50	7,409.16	57.33	130.228		
14,500.00	6,027.00	5,867.16	5,750.76	154.28	24.15	15.26	944.43	-1,437.91	7,566.43	7,509.05	57.39	131.850		
14,600.00	6,027.00	5,866.31	5,749.99	156.01	24.15	15.15	944.46	-1,438.24	7,666.37	7,608.93	57.44	133.468		
14,700.00	6,027.00	5,865.48	5,749.23	157.75	24.15	15.04	944.48	-1,438.56	7,766.31	7,708.81	57.49	135.083		
14,800.00	6,027.00	5,864.67	5,748.47	159.49	24.15	14.94	944.50	-1,438.88	7,866.25	7,808.70	57.55	136.693		
14,900.00	6,027.00	5,863.86	5,747.73	161.22	24.15	14.84	944.53	-1,439.19	7,966.19	7,908.58	57.60	138.300		
15,000.00	6,027.00	5,847.00	5,732.10	162.96	24.12	12.83	944.95	-1,445.50	8,066.18	8,008.49	57.69	139.817		
15,100.00	6,027.00	3,304.00	3,270.87	164.70	12.26	4.05	1,422.23	-1,315.55	8,160.72	8,108.74	51.98	156.991		
15,200.00	6,027.00	3,304.00	3,270.87	166.44	12.26	4.05	1,422.23	-1,315.55	8,254.95	8,202.88	52.07	158.550		
15,300.00	6,027.00	3,304.00	3,270.87	168.18	12.26	4.05	1,422.23	-1,315.55	8,349.31	8,297.16	52.15	160.111		
15,400.00	6,027.00	3,268.86	3,238.05	169.93	12.07	4.10	1,433.84	-1,310.77	8,443.65	8,391.49	52.17	161.852		
15,500.00	6,027.00	3,251.73	3,222.04	171.67	11.98	4.12	1,439.46	-1,308.44	8,538.10	8,485.88	52.22	163.497		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
SEC 9-T5N-R61W - EXIST HZ PRONGHORN 14-44-9HNB - OWB - FINAL SURVEY												<b>Offset Well Error:</b>	0.00 usft
Survey Program: 17-MWD OWSG													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,600.00	6,027.00	3,234.79	3,206.18	173.41	11.89	4.15	1,444.99	-1,306.15	8,632.61	8,580.33	52.28	165.137	
15,700.00	6,027.00	3,209.00	3,182.04	175.15	11.75	4.18	1,453.34	-1,302.67	8,727.18	8,674.87	52.32	166.818	
15,800.00	6,027.00	3,209.00	3,182.04	176.90	11.75	4.18	1,453.34	-1,302.67	8,821.81	8,769.41	52.39	168.371	
15,900.00	6,027.00	3,209.00	3,182.04	178.64	11.75	4.18	1,453.34	-1,302.67	8,916.55	8,864.07	52.47	169.925	
16,000.00	6,027.00	3,209.00	3,182.04	180.39	11.75	4.18	1,453.34	-1,302.67	9,011.40	8,958.85	52.55	171.478	
16,100.00	6,027.00	3,209.00	3,182.04	182.13	11.75	4.18	1,453.34	-1,302.67	9,106.36	9,053.74	52.63	173.031	
16,200.00	6,027.00	3,209.00	3,182.04	183.88	11.75	4.18	1,453.34	-1,302.67	9,201.44	9,148.73	52.71	174.584	
16,300.00	6,027.00	3,209.00	3,182.04	185.63	11.75	4.18	1,453.34	-1,302.67	9,296.61	9,243.83	52.78	176.135	
16,400.00	6,027.00	3,165.62	3,141.28	187.38	11.54	4.24	1,466.98	-1,296.81	9,391.40	9,338.60	52.80	177.870	
16,500.00	6,027.00	3,159.30	3,135.32	189.12	11.50	4.25	1,468.90	-1,295.95	9,486.63	9,433.76	52.87	179.444	
16,600.00	6,027.00	3,153.08	3,129.45	190.87	11.47	4.25	1,470.78	-1,295.11	9,581.93	9,528.99	52.93	181.016	
16,700.00	6,027.00	3,114.00	3,092.47	192.62	11.28	4.30	1,482.26	-1,289.81	9,677.58	9,624.62	52.96	182.728	
16,795.97	6,027.00	3,114.00	3,092.47	194.30	11.28	4.30	1,482.26	-1,289.81	9,769.09	9,716.05	53.03	184.206	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN 41-11-9HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 473-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	109.29	109.29	0.27	0.19	34.30	5,159.06	3,519.43	6,245.21	6,244.75	0.46	N/A		
200.00	200.00	196.03	196.03	0.63	0.34	34.30	5,159.39	3,519.53	6,245.58	6,244.61	0.97	6,438.760		
300.00	300.00	282.77	282.76	0.99	0.49	34.30	5,159.91	3,519.67	6,246.17	6,244.69	1.48	4,220.317		
400.00	400.00	369.50	369.50	1.34	0.65	34.30	5,160.61	3,519.87	6,246.97	6,244.98	1.99	3,139.138		
500.00	500.00	473.00	472.99	1.70	0.83	34.29	5,161.70	3,520.17	6,248.00	6,245.47	2.53	2,470.249		
600.00	600.00	548.66	548.64	2.06	1.10	34.29	5,162.63	3,520.41	6,249.16	6,246.00	3.16	1,978.166		
700.00	700.00	636.01	635.99	2.42	1.41	34.29	5,163.83	3,520.67	6,250.47	6,246.64	3.83	1,631.683		
800.00	800.00	724.00	723.96	2.78	1.73	34.28	5,165.33	3,521.01	6,252.08	6,247.57	4.50	1,387.924		
900.00	900.00	865.29	865.23	3.14	2.23	34.27	5,167.76	3,520.73	6,253.40	6,248.03	5.37	1,165.002		
1,000.00	999.98	951.69	951.61	3.49	2.54	123.49	5,169.35	3,520.07	6,255.45	6,249.42	6.03	1,038.021		
1,100.00	1,099.84	1,033.92	1,033.82	3.83	2.83	123.43	5,171.17	3,519.32	6,259.65	6,252.99	6.67	938.936		
1,200.00	1,199.45	1,176.13	1,175.97	4.19	3.34	123.40	5,174.86	3,517.49	6,266.01	6,258.49	7.53	832.466		
1,300.00	1,298.70	1,406.06	1,405.84	4.55	4.15	123.46	5,176.73	3,512.93	6,272.06	6,263.37	8.69	721.618		
1,400.00	1,397.47	1,520.58	1,520.33	4.94	4.54	123.45	5,176.59	3,510.19	6,279.29	6,269.83	9.46	663.628		
1,500.00	1,495.62	1,629.46	1,629.16	5.34	4.93	123.44	5,176.63	3,507.09	6,288.34	6,278.11	10.23	614.618		
1,600.00	1,593.06	1,767.27	1,766.89	5.78	5.41	123.47	5,176.35	3,502.63	6,298.95	6,287.83	11.12	566.318		
1,700.00	1,689.64	1,877.13	1,876.69	6.24	5.80	123.45	5,175.51	3,498.84	6,310.91	6,298.97	11.94	528.534		
1,800.00	1,785.27	1,939.11	1,938.64	6.75	6.02	123.36	5,175.12	3,496.92	6,325.18	6,312.56	12.62	501.179		
1,900.00	1,880.44	2,011.08	2,010.58	7.30	6.27	123.51	5,174.94	3,494.98	6,340.87	6,327.51	13.36	474.749		
2,000.00	1,975.60	2,097.00	2,096.46	7.86	6.58	123.69	5,175.09	3,492.45	6,356.86	6,342.71	14.16	449.049		
2,100.00	2,070.77	2,144.44	2,143.88	8.43	6.75	123.79	5,175.30	3,491.27	6,373.38	6,358.55	14.83	429.801		
2,200.00	2,165.93	2,223.00	2,222.44	9.02	7.03	123.97	5,175.67	3,490.58	6,390.85	6,375.23	15.62	409.147		
2,300.00	2,261.10	2,260.35	2,259.79	9.62	7.15	124.06	5,175.84	3,490.64	6,408.77	6,392.51	16.27	394.004		
2,400.00	2,356.26	10,449.00	6,217.95	10.23	118.73	99.45	5,056.55	-614.45	6,350.02	6,244.82	105.19	60.366		
2,500.00	2,451.43	10,464.59	6,217.81	10.84	119.15	99.28	5,055.74	-630.02	6,291.25	6,184.40	106.85	58.880		
2,600.00	2,546.59	10,480.00	6,217.76	11.46	119.56	99.12	5,055.00	-645.42	6,233.54	6,125.02	108.53	57.439		
2,700.00	2,641.76	10,541.00	6,218.54	12.09	121.19	98.49	5,051.08	-706.28	6,176.63	6,065.43	111.20	55.546		
2,800.00	2,736.92	10,541.00	6,218.54	12.72	121.19	98.49	5,051.08	-706.28	6,120.71	6,008.12	112.59	54.365		
2,900.00	2,832.09	10,558.58	6,218.53	13.35	121.66	98.31	5,050.12	-723.83	6,065.81	5,951.44	114.37	53.035		
3,000.00	2,927.25	10,572.00	6,218.40	13.99	122.02	98.17	5,049.62	-737.24	6,012.10	5,896.01	116.09	51.789		
3,100.00	3,022.42	10,572.00	6,218.40	14.63	122.02	98.17	5,049.62	-737.24	5,959.52	5,842.00	117.51	50.714		
3,200.00	3,117.58	10,668.89	6,219.35	15.27	124.61	97.15	5,044.41	-833.98	5,907.74	5,786.61	121.13	48.771		
3,300.00	3,212.75	10,745.08	6,219.29	15.91	126.64	96.35	5,040.17	-910.05	5,856.96	5,732.64	124.32	47.112		
3,400.00	3,307.91	10,868.22	6,216.59	16.56	129.94	95.03	5,032.91	-1,032.94	5,806.77	5,678.16	128.61	45.150		
3,500.00	3,403.08	10,885.00	6,216.15	17.20	130.39	94.85	5,031.83	-1,049.68	5,757.66	5,627.15	130.51	44.117		
3,600.00	3,498.24	10,885.00	6,216.15	17.85	130.39	94.85	5,031.83	-1,049.68	5,709.85	5,577.81	132.03	43.246		
3,700.00	3,593.41	10,885.00	6,216.15	18.50	130.39	94.85	5,031.83	-1,049.68	5,663.40	5,529.84	133.55	42.406		
3,800.00	3,688.57	10,885.00	6,216.15	19.15	130.39	94.85	5,031.83	-1,049.68	5,618.35	5,483.27	135.07	41.595		
3,900.00	3,783.74	10,885.00	6,216.15	19.81	130.39	94.85	5,031.83	-1,049.68	5,574.72	5,438.14	136.58	40.815		
4,000.00	3,878.90	10,885.00	6,216.15	20.46	130.39	94.85	5,031.83	-1,049.68	5,532.56	5,394.48	138.09	40.065		
4,100.00	3,974.07	10,885.00	6,216.15	21.11	130.39	94.85	5,031.83	-1,049.68	5,491.90	5,352.32	139.58	39.345		
4,200.00	4,069.23	10,885.00	6,216.15	21.77	130.39	94.85	5,031.83	-1,049.68	5,452.77	5,311.71	141.07	38.654		
4,300.00	4,164.40	10,885.00	6,216.15	22.42	130.39	94.85	5,031.83	-1,049.68	5,415.21	5,272.67	142.53	37.993		
4,400.00	4,259.56	10,885.00	6,216.15	23.08	130.39	94.85	5,031.83	-1,049.68	5,379.24	5,235.26	143.98	37.360		
4,500.00	4,354.73	10,885.00	6,216.15	23.74	130.39	94.85	5,031.83	-1,049.68	5,344.90	5,199.49	145.41	36.756		
4,600.00	4,449.89	10,885.00	6,216.15	24.39	130.39	94.85	5,031.83	-1,049.68	5,312.22	5,165.40	146.82	36.182		
4,700.00	4,545.06	10,885.00	6,216.15	25.05	130.39	94.85	5,031.83	-1,049.68	5,281.23	5,133.03	148.20	35.635		
4,800.00	4,640.22	10,885.00	6,216.15	25.71	130.39	94.85	5,031.83	-1,049.68	5,251.97	5,102.41	149.56	35.116		
4,900.00	4,735.39	10,885.00	6,216.15	26.37	130.39	94.85	5,031.83	-1,049.68	5,224.45	5,073.57	150.88	34.626		
5,000.00	4,830.55	10,885.00	6,216.15	27.03	130.39	94.85	5,031.83	-1,049.68	5,198.71	5,046.54	152.17	34.163		
5,100.00	4,925.72	10,885.00	6,216.15	27.69	130.39	94.85	5,031.83	-1,049.68	5,174.78	5,021.35	153.43	33.728		
5,200.00	5,020.88	10,885.00	6,216.15	28.35	130.39	94.85	5,031.83	-1,049.68	5,152.68	4,998.03	154.65	33.319		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PH FENRIR F16 08N-20-03
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4668.00usft
Reference Site:	SEC 16-T5N-R61W	MD Reference:	KB 25' @ 4668.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PH FENRIR F16 08N-20-03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN 41-11-9HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 473-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	10,885.00	6,216.15	29.01	130.39	94.85	5,031.83	-1,049.68	5,132.43	4,976.61	155.82	32.938		
5,400.00	5,211.21	10,885.00	6,216.15	29.67	130.39	94.85	5,031.83	-1,049.68	5,114.06	4,957.10	156.96	32.583		
5,500.00	5,306.38	10,885.00	6,216.15	30.33	130.39	94.85	5,031.83	-1,049.68	5,097.58	4,939.53	158.04	32.254		
5,600.00	5,401.54	10,885.00	6,216.15	30.99	130.39	94.85	5,031.83	-1,049.68	5,083.01	4,923.93	159.08	31.952		
5,700.00	5,496.71	10,885.00	6,216.15	31.65	130.39	90.72	5,031.83	-1,049.68	5,070.23	4,910.15	160.07	31.675		
5,800.00	5,591.13	10,885.00	6,216.15	32.30	130.39	63.94	5,031.83	-1,049.68	5,048.69	4,887.68	161.00	31.358		
5,900.00	5,682.22	10,885.00	6,216.15	32.92	130.39	47.49	5,031.83	-1,049.68	5,012.37	4,850.52	161.84	30.970		
6,000.00	5,767.23	10,885.00	6,216.15	33.50	130.39	38.53	5,031.83	-1,049.68	4,962.07	4,799.49	162.58	30.521		
6,100.00	5,843.56	10,885.00	6,216.15	34.04	130.39	33.87	5,031.83	-1,049.68	4,898.92	4,735.71	163.21	30.017		
6,200.00	5,908.90	10,885.00	6,216.15	34.53	130.39	32.04	5,031.83	-1,049.68	4,824.37	4,660.65	163.72	29.467		
6,300.00	5,961.25	10,885.00	6,216.15	34.99	130.39	32.83	5,031.83	-1,049.68	4,740.21	4,576.08	164.13	28.881		
6,400.00	5,999.04	10,885.00	6,216.15	35.42	130.39	37.77	5,031.83	-1,049.68	4,648.54	4,484.11	164.43	28.271		
6,500.00	6,021.11	10,885.00	6,216.15	35.83	130.39	55.27	5,031.83	-1,049.68	4,551.79	4,387.16	164.63	27.648		
6,600.00	6,027.00	10,885.00	6,216.15	36.24	130.39	109.50	5,031.83	-1,049.68	4,452.66	4,287.91	164.75	27.026		
6,700.00	6,027.00	10,885.00	6,216.15	36.68	130.39	109.50	5,031.83	-1,049.68	4,353.28	4,188.43	164.84	26.408		
6,800.00	6,027.00	10,885.00	6,216.15	37.20	130.39	109.50	5,031.83	-1,049.68	4,253.93	4,088.98	164.94	25.791		
6,900.00	6,027.00	10,885.00	6,216.15	37.80	130.39	109.50	5,031.83	-1,049.68	4,154.60	3,989.56	165.04	25.173		
7,000.00	6,027.00	10,885.00	6,216.15	38.47	130.39	109.50	5,031.83	-1,049.68	4,055.32	3,890.17	165.15	24.555		
7,100.00	6,027.00	10,885.00	6,216.15	39.21	130.39	109.50	5,031.83	-1,049.68	3,956.06	3,790.80	165.26	23.938		
7,200.00	6,027.00	10,885.00	6,216.15	40.02	130.39	109.50	5,031.83	-1,049.68	3,856.85	3,691.47	165.38	23.321		
7,300.00	6,027.00	10,885.00	6,216.15	40.89	130.39	109.50	5,031.83	-1,049.68	3,757.68	3,592.17	165.50	22.705		
7,400.00	6,027.00	10,885.00	6,216.15	41.83	130.39	109.50	5,031.83	-1,049.68	3,658.55	3,492.92	165.63	22.088		
7,500.00	6,027.00	10,885.00	6,216.15	42.83	130.39	109.50	5,031.83	-1,049.68	3,559.47	3,393.70	165.77	21.472		
7,600.00	6,027.00	10,885.00	6,216.15	43.88	130.39	109.50	5,031.83	-1,049.68	3,460.44	3,294.53	165.91	20.857		
7,700.00	6,027.00	10,885.00	6,216.15	44.99	130.39	109.50	5,031.83	-1,049.68	3,361.47	3,195.41	166.06	20.242		
7,800.00	6,027.00	10,885.00	6,216.15	46.14	130.39	109.50	5,031.83	-1,049.68	3,262.57	3,096.35	166.22	19.628		
7,900.00	6,027.00	10,885.00	6,216.15	47.33	130.39	109.50	5,031.83	-1,049.68	3,163.73	2,997.34	166.39	19.014		
8,000.00	6,027.00	10,885.00	6,216.15	48.57	130.39	109.50	5,031.83	-1,049.68	3,064.97	2,898.40	166.57	18.400		
8,100.00	6,027.00	10,885.00	6,216.15	49.84	130.39	109.50	5,031.83	-1,049.68	2,966.29	2,799.54	166.76	17.788		
8,200.00	6,027.00	10,885.00	6,216.15	51.15	130.39	109.50	5,031.83	-1,049.68	2,867.71	2,700.75	166.96	17.176		
8,300.00	6,027.00	10,885.00	6,216.15	52.48	130.39	109.50	5,031.83	-1,049.68	2,769.22	2,602.06	167.17	16.566		
8,400.00	6,027.00	10,885.00	6,216.15	53.85	130.39	109.50	5,031.83	-1,049.68	2,670.85	2,503.46	167.39	15.956		
8,500.00	6,027.00	10,885.00	6,216.15	55.24	130.39	109.50	5,031.83	-1,049.68	2,572.60	2,404.98	167.62	15.347		
8,600.00	6,027.00	10,885.00	6,216.15	56.65	130.39	109.50	5,031.83	-1,049.68	2,474.50	2,306.62	167.87	14.740		
8,700.00	6,027.00	10,885.00	6,216.15	58.08	130.39	109.50	5,031.83	-1,049.68	2,376.55	2,208.41	168.14	14.134		
8,800.00	6,027.00	10,885.00	6,216.15	59.54	130.39	109.50	5,031.83	-1,049.68	2,278.78	2,110.36	168.42	13.530		
8,900.00	6,027.00	10,885.00	6,216.15	61.01	130.39	109.50	5,031.83	-1,049.68	2,181.21	2,012.49	168.72	12.928		
9,000.00	6,027.00	10,885.00	6,216.15	62.50	130.39	109.50	5,031.83	-1,049.68	2,083.87	1,914.84	169.03	12.328		
9,100.00	6,027.00	10,885.00	6,216.15	64.01	130.39	109.50	5,031.83	-1,049.68	1,986.80	1,817.43	169.37	11.731		
9,200.00	6,027.00	10,885.00	6,216.15	65.53	130.39	109.50	5,031.83	-1,049.68	1,890.03	1,720.31	169.72	11.136		
9,300.00	6,027.00	10,885.00	6,216.15	67.06	130.39	109.50	5,031.83	-1,049.68	1,793.62	1,623.53	170.09	10.545		
9,400.00	6,027.00	10,885.00	6,216.15	68.61	130.39	109.50	5,031.83	-1,049.68	1,697.62	1,527.14	170.48	9.958		
9,500.00	6,027.00	10,885.00	6,216.15	70.17	130.39	109.50	5,031.83	-1,049.68	1,602.11	1,431.24	170.88	9.376		
9,600.00	6,027.00	10,885.00	6,216.15	71.73	130.39	109.50	5,031.83	-1,049.68	1,507.19	1,335.90	171.28	8.799		
9,700.00	6,027.00	10,885.00	6,216.15	73.31	130.39	109.50	5,031.83	-1,049.68	1,412.96	1,241.27	171.69	8.230		
9,800.00	6,027.00	10,885.00	6,216.15	74.90	130.39	109.50	5,031.83	-1,049.68	1,319.59	1,147.51	172.07	7.669		
9,900.00	6,027.00	10,885.00	6,216.15	76.50	130.39	109.50	5,031.83	-1,049.68	1,227.25	1,054.85	172.41	7.118		
10,000.00	6,027.00	10,885.00	6,216.15	78.10	130.39	109.50	5,031.83	-1,049.68	1,136.22	963.57	172.65	6.581		
10,100.00	6,027.00	10,885.00	6,216.15	79.71	130.39	109.50	5,031.83	-1,049.68	1,046.83	874.10	172.73	6.060		
10,200.00	6,027.00	10,885.00	6,216.15	81.33	130.39	109.50	5,031.83	-1,049.68	959.53	787.00	172.53	5.562		
10,300.00	6,027.00	10,885.00	6,216.15	82.96	130.39	109.50	5,031.83	-1,049.68	874.95	703.10	171.86	5.091		
10,400.00	6,027.00	10,885.00	6,216.15	84.59	130.39	109.50	5,031.83	-1,049.68	793.97	623.57	170.40	4.659		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN 41-11-9HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 473-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,500.00	6,027.00	10,885.00	6,216.15	86.23	130.39	109.50	5,031.83	-1,049.68	717.80	550.12	167.68	4.281		
10,600.00	6,027.00	10,885.00	6,216.15	87.87	130.39	109.50	5,031.83	-1,049.68	648.14	485.20	162.94	3.978		
10,700.00	6,027.00	10,885.00	6,216.15	89.52	130.39	109.50	5,031.83	-1,049.68	587.31	432.17	155.14	3.786		
10,800.00	6,027.00	10,885.00	6,216.15	91.17	130.39	109.50	5,031.83	-1,049.68	538.31	395.12	143.19	3.759 SF		
10,900.00	6,027.00	10,885.00	6,216.15	92.83	130.39	109.50	5,031.83	-1,049.68	504.60	377.43	127.18	3.968		
11,000.00	6,027.00	10,885.00	6,216.15	94.49	130.39	109.50	5,031.83	-1,049.68	489.36	375.30	114.06	4.290		
11,025.76	6,027.00	10,885.00	6,216.15	94.92	130.39	109.50	5,031.83	-1,049.68	488.68	375.02	113.66	4.300 CC		
11,100.00	6,027.00	10,885.00	6,216.15	96.16	130.39	109.50	5,031.83	-1,049.68	494.29	374.23	120.05	4.117 ES		
11,200.00	6,027.00	10,885.00	6,216.15	97.83	130.39	109.50	5,031.83	-1,049.68	518.81	385.39	133.42	3.888		
11,300.00	6,027.00	10,885.00	6,216.15	99.50	130.39	109.50	5,031.83	-1,049.68	560.37	416.42	143.95	3.893		
11,400.00	6,027.00	10,885.00	6,216.15	101.18	130.39	109.50	5,031.83	-1,049.68	615.52	464.85	150.67	4.085		
11,500.00	6,027.00	10,885.00	6,216.15	102.86	130.39	109.50	5,031.83	-1,049.68	680.96	526.43	154.53	4.407		
11,600.00	6,027.00	10,885.00	6,216.15	104.54	130.39	109.50	5,031.83	-1,049.68	754.03	597.46	156.57	4.816		
11,700.00	6,027.00	10,885.00	6,216.15	106.23	130.39	109.50	5,031.83	-1,049.68	832.71	675.16	157.55	5.285		
11,800.00	6,027.00	10,885.00	6,216.15	107.92	130.39	109.50	5,031.83	-1,049.68	915.56	757.62	157.94	5.797		
11,900.00	6,027.00	10,885.00	6,216.15	109.61	130.39	109.50	5,031.83	-1,049.68	1,001.55	843.51	158.04	6.337		
12,000.00	6,027.00	10,885.00	6,216.15	111.31	130.39	109.50	5,031.83	-1,049.68	1,089.93	931.93	158.00	6.898		
12,100.00	6,027.00	10,885.00	6,216.15	113.00	130.39	109.50	5,031.83	-1,049.68	1,180.17	1,022.25	157.92	7.473		
12,200.00	6,027.00	10,885.00	6,216.15	114.71	130.39	109.50	5,031.83	-1,049.68	1,271.87	1,114.03	157.84	8.058		
12,300.00	6,027.00	10,885.00	6,216.15	116.41	130.39	109.50	5,031.83	-1,049.68	1,364.73	1,206.95	157.78	8.650		
12,400.00	6,027.00	10,885.00	6,216.15	118.11	130.39	109.50	5,031.83	-1,049.68	1,458.54	1,300.80	157.74	9.246		
12,500.00	6,027.00	10,885.00	6,216.15	119.82	130.39	109.50	5,031.83	-1,049.68	1,553.12	1,395.38	157.74	9.846		
12,600.00	6,027.00	10,885.00	6,216.15	121.53	130.39	109.50	5,031.83	-1,049.68	1,648.34	1,490.58	157.76	10.448		
12,700.00	6,027.00	10,885.00	6,216.15	123.24	130.39	109.50	5,031.83	-1,049.68	1,744.10	1,586.29	157.81	11.052		
12,800.00	6,027.00	10,885.00	6,216.15	124.95	130.39	109.50	5,031.83	-1,049.68	1,840.31	1,682.42	157.88	11.656		
12,900.00	6,027.00	10,885.00	6,216.15	126.66	130.39	109.50	5,031.83	-1,049.68	1,936.90	1,778.93	157.97	12.261		
13,000.00	6,027.00	10,885.00	6,216.15	128.38	130.39	109.50	5,031.83	-1,049.68	2,033.82	1,875.75	158.06	12.867		
13,100.00	6,027.00	10,885.00	6,216.15	130.10	130.39	109.50	5,031.83	-1,049.68	2,131.02	1,972.85	158.17	13.473		
13,200.00	6,027.00	10,885.00	6,216.15	131.82	130.39	109.50	5,031.83	-1,049.68	2,228.48	2,070.19	158.29	14.078		
13,300.00	6,027.00	10,885.00	6,216.15	133.54	130.39	109.50	5,031.83	-1,049.68	2,326.15	2,167.73	158.41	14.684		
13,400.00	6,027.00	10,885.00	6,216.15	135.26	130.39	109.50	5,031.83	-1,049.68	2,424.01	2,265.47	158.54	15.290		
13,500.00	6,027.00	10,885.00	6,216.15	136.98	130.39	109.50	5,031.83	-1,049.68	2,522.03	2,363.36	158.67	15.895		
13,600.00	6,027.00	10,885.00	6,216.15	138.71	130.39	109.50	5,031.83	-1,049.68	2,620.21	2,461.41	158.80	16.500		
13,700.00	6,027.00	10,885.00	6,216.15	140.43	130.39	109.50	5,031.83	-1,049.68	2,718.52	2,559.58	158.94	17.105		
13,800.00	6,027.00	10,885.00	6,216.15	142.16	130.39	109.50	5,031.83	-1,049.68	2,816.95	2,657.88	159.07	17.709		
13,900.00	6,027.00	10,885.00	6,216.15	143.89	130.39	109.50	5,031.83	-1,049.68	2,915.48	2,756.28	159.20	18.313		
14,000.00	6,027.00	10,885.00	6,216.15	145.62	130.39	109.50	5,031.83	-1,049.68	3,014.12	2,854.78	159.33	18.917		
14,100.00	6,027.00	10,885.00	6,216.15	147.35	130.39	109.50	5,031.83	-1,049.68	3,112.83	2,953.37	159.47	19.520		
14,200.00	6,027.00	10,885.00	6,216.15	149.08	130.39	109.50	5,031.83	-1,049.68	3,211.63	3,052.04	159.60	20.123		
14,300.00	6,027.00	10,885.00	6,216.15	150.81	130.39	109.50	5,031.83	-1,049.68	3,310.50	3,150.78	159.73	20.726		
14,400.00	6,027.00	10,885.00	6,216.15	152.54	130.39	109.50	5,031.83	-1,049.68	3,409.44	3,249.58	159.86	21.328		
14,500.00	6,027.00	10,885.00	6,216.15	154.28	130.39	109.50	5,031.83	-1,049.68	3,508.44	3,348.45	159.98	21.930		
14,600.00	6,027.00	10,885.00	6,216.15	156.01	130.39	109.50	5,031.83	-1,049.68	3,607.49	3,447.38	160.11	22.531		
14,700.00	6,027.00	10,885.00	6,216.15	157.75	130.39	109.50	5,031.83	-1,049.68	3,706.59	3,546.36	160.23	23.132		
14,800.00	6,027.00	10,885.00	6,216.15	159.49	130.39	109.50	5,031.83	-1,049.68	3,805.74	3,645.38	160.36	23.733		
14,900.00	6,027.00	10,885.00	6,216.15	161.22	130.39	109.50	5,031.83	-1,049.68	3,904.94	3,744.46	160.48	24.333		
15,000.00	6,027.00	10,885.00	6,216.15	162.96	130.39	109.50	5,031.83	-1,049.68	4,004.17	3,843.57	160.60	24.933		
15,100.00	6,027.00	10,885.00	6,216.15	164.70	130.39	109.50	5,031.83	-1,049.68	4,103.44	3,942.72	160.72	25.532		
15,200.00	6,027.00	10,885.00	6,216.15	166.44	130.39	109.50	5,031.83	-1,049.68	4,202.74	4,041.91	160.84	26.130		
15,300.00	6,027.00	10,885.00	6,216.15	168.18	130.39	109.50	5,031.83	-1,049.68	4,302.08	4,141.13	160.95	26.729		
15,400.00	6,027.00	10,885.00	6,216.15	169.93	130.39	109.50	5,031.83	-1,049.68	4,401.45	4,240.38	161.07	27.326		
15,500.00	6,027.00	10,885.00	6,216.15	171.67	130.39	109.50	5,031.83	-1,049.68	4,500.84	4,339.66	161.18	27.924		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 9-T5N-R61W - EXIST HZ PRONGHORN 41-11-9HZ - OWB - FINAL SURVEY												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 473-MWD OWSG												<b>Offset Well Error:</b>	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	10,885.00	6,216.15	173.41	130.39	109.50	5,031.83	-1,049.68	4,600.27	4,438.97	161.30	28.520	
15,700.00	6,027.00	10,885.00	6,216.15	175.15	130.39	109.50	5,031.83	-1,049.68	4,699.71	4,538.30	161.41	29.117	
15,800.00	6,027.00	10,885.00	6,216.15	176.90	130.39	109.50	5,031.83	-1,049.68	4,799.18	4,637.66	161.52	29.713	
15,900.00	6,027.00	10,885.00	6,216.15	178.64	130.39	109.50	5,031.83	-1,049.68	4,898.67	4,737.04	161.63	30.308	
16,000.00	6,027.00	10,885.00	6,216.15	180.39	130.39	109.50	5,031.83	-1,049.68	4,998.18	4,836.44	161.74	30.903	
16,100.00	6,027.00	10,885.00	6,216.15	182.13	130.39	109.50	5,031.83	-1,049.68	5,097.71	4,935.87	161.85	31.497	
16,200.00	6,027.00	10,885.00	6,216.15	183.88	130.39	109.50	5,031.83	-1,049.68	5,197.26	5,035.31	161.96	32.091	
16,300.00	6,027.00	10,885.00	6,216.15	185.63	130.39	109.50	5,031.83	-1,049.68	5,296.83	5,134.76	162.06	32.684	
16,400.00	6,027.00	10,885.00	6,216.15	187.38	130.39	109.50	5,031.83	-1,049.68	5,396.41	5,234.24	162.17	33.277	
16,500.00	6,027.00	10,885.00	6,216.15	189.12	130.39	109.50	5,031.83	-1,049.68	5,496.01	5,333.73	162.27	33.869	
16,600.00	6,027.00	10,885.00	6,216.15	190.87	130.39	109.50	5,031.83	-1,049.68	5,595.62	5,433.24	162.38	34.460	
16,700.00	6,027.00	10,885.00	6,216.15	192.62	130.39	109.50	5,031.83	-1,049.68	5,695.24	5,532.76	162.48	35.051	
16,795.97	6,027.00	10,885.00	6,216.15	194.30	130.39	109.50	5,031.83	-1,049.68	5,790.86	5,628.28	162.58	35.618	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN C-W-9HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	84.70	84.70	0.27	0.24	-37.81	1,661.32	-1,289.33	2,102.94	2,102.43	0.51	4,111.004		
200.00	200.00	182.82	182.82	0.63	0.59	-37.81	1,661.43	-1,289.36	2,103.05	2,101.83	1.22	1,721.373		
300.00	300.00	280.94	280.94	0.99	0.95	-37.81	1,661.64	-1,289.40	2,103.24	2,101.31	1.93	1,088.687		
400.00	400.00	379.06	379.06	1.34	1.30	-37.81	1,661.94	-1,289.47	2,103.53	2,100.89	2.64	796.163		
500.00	500.00	477.18	477.17	1.70	1.65	-37.80	1,662.34	-1,289.55	2,103.90	2,100.55	3.35	627.609		
600.00	600.00	578.92	578.91	2.06	2.01	-37.79	1,662.90	-1,289.50	2,104.30	2,100.23	4.07	516.624		
700.00	700.00	678.34	678.34	2.42	2.37	-37.77	1,663.66	-1,289.00	2,104.61	2,099.82	4.79	439.794		
800.00	800.00	773.35	773.33	2.78	2.70	-37.75	1,664.55	-1,288.61	2,105.09	2,099.61	5.48	383.986		
900.00	900.00	867.02	867.00	3.14	3.04	-37.72	1,665.58	-1,288.40	2,105.82	2,099.65	6.18	341.021		
1,000.00	999.98	944.89	944.87	3.49	3.32	51.57	1,666.67	-1,288.48	2,105.97	2,099.16	6.80	309.538		
1,100.00	1,099.84	1,017.00	1,016.93	3.83	3.58	51.68	1,669.02	-1,289.26	2,105.79	2,098.38	7.41	284.354		
1,200.00	1,199.45	1,060.76	1,060.63	4.19	3.73	51.80	1,671.27	-1,290.09	2,105.27	2,097.36	7.91	266.234		
1,300.00	1,298.70	1,125.35	1,125.04	4.55	3.97	52.02	1,675.68	-1,291.66	2,104.60	2,096.11	8.49	247.815		
1,400.00	1,397.47	1,206.00	1,205.43	4.94	4.26	52.36	1,681.76	-1,293.98	2,102.80	2,093.65	9.15	229.814		
1,500.00	1,495.62	1,281.57	1,280.68	5.34	4.54	52.78	1,688.34	-1,296.19	2,099.97	2,090.16	9.80	214.175		
1,600.00	1,593.06	1,349.78	1,348.47	5.78	4.79	53.24	1,695.73	-1,297.93	2,096.64	2,086.19	10.45	200.587		
1,700.00	1,689.64	1,414.84	1,412.97	6.24	5.04	53.78	1,704.13	-1,299.23	2,092.87	2,081.76	11.11	188.329		
1,800.00	1,785.27	1,491.00	1,488.25	6.75	5.33	54.47	1,715.44	-1,301.16	2,089.12	2,077.27	11.85	176.266		
1,900.00	1,880.44	1,543.71	1,540.23	7.30	5.54	54.93	1,724.06	-1,302.68	2,086.15	2,073.63	12.52	166.624		
1,983.99	1,960.36	1,586.00	1,581.87	7.77	5.71	55.31	1,731.36	-1,303.79	2,085.01	2,071.92	13.08	159.350		
2,000.00	1,975.60	1,586.00	1,581.87	7.86	5.71	55.31	1,731.36	-1,303.79	2,085.07	2,071.91	13.16	158.486		
2,100.00	2,070.77	1,654.23	1,648.79	8.43	5.99	55.93	1,744.49	-1,305.81	2,086.03	2,072.10	13.92	149.845		
2,200.00	2,165.93	1,710.68	1,703.82	9.02	6.23	56.46	1,756.90	-1,307.80	2,089.73	2,075.09	14.64	142.706		
2,300.00	2,261.10	1,777.00	1,768.20	9.62	6.52	57.10	1,772.70	-1,309.69	2,095.33	2,079.90	15.42	135.864		
2,400.00	2,356.26	1,845.21	1,834.16	10.23	6.84	57.78	1,790.00	-1,311.45	2,102.69	2,086.47	16.22	129.625		
2,500.00	2,451.43	1,902.51	1,889.37	10.84	7.11	58.35	1,805.21	-1,313.18	2,111.93	2,094.96	16.97	124.456		
2,600.00	2,546.59	1,968.00	1,952.11	11.46	7.43	58.99	1,823.78	-1,316.06	2,123.69	2,105.92	17.76	119.552		
2,700.00	2,641.76	2,002.62	1,985.07	12.09	7.61	59.33	1,834.22	-1,317.81	2,137.68	2,119.30	18.39	116.264		
2,800.00	2,736.92	2,062.00	2,041.20	12.72	7.92	59.93	1,853.41	-1,320.58	2,154.28	2,135.13	19.15	112.517		
2,900.00	2,832.09	2,097.09	2,074.11	13.35	8.11	60.28	1,865.48	-1,322.25	2,173.25	2,153.50	19.76	110.008		
3,000.00	2,927.25	2,155.00	2,127.97	13.99	8.44	60.87	1,886.47	-1,325.55	2,194.91	2,174.41	20.50	107.069		
3,100.00	3,022.42	2,190.23	2,160.48	14.63	8.66	61.22	1,899.86	-1,327.76	2,218.83	2,197.74	21.09	105.209		
3,200.00	3,117.58	2,250.00	2,215.22	15.27	9.02	61.83	1,923.57	-1,331.45	2,245.07	2,223.24	21.84	102.805		
3,300.00	3,212.75	2,286.41	2,248.28	15.91	9.26	62.20	1,938.66	-1,333.70	2,273.44	2,251.03	22.42	101.421		
3,400.00	3,307.91	2,345.00	2,300.96	16.56	9.64	62.79	1,964.04	-1,337.40	2,304.20	2,281.05	23.15	99.543		
3,500.00	3,403.08	2,392.86	2,343.67	17.20	9.97	63.27	1,985.42	-1,340.50	2,336.78	2,312.99	23.79	98.205		
3,600.00	3,498.24	2,464.04	2,406.98	17.85	10.48	63.98	2,017.60	-1,345.19	2,370.70	2,346.07	24.62	96.283		
3,700.00	3,593.41	2,536.00	2,470.75	18.50	11.00	64.70	2,050.68	-1,349.29	2,405.66	2,380.20	25.46	94.495		
3,800.00	3,688.57	2,598.61	2,525.97	19.15	11.46	65.33	2,080.03	-1,352.42	2,441.85	2,415.63	26.22	93.131		
3,900.00	3,783.74	2,702.24	2,617.30	19.81	12.25	66.34	2,128.74	-1,357.45	2,478.66	2,451.33	27.33	90.700		
4,000.00	3,878.90	2,789.04	2,694.16	20.46	12.91	67.16	2,168.79	-1,362.17	2,515.31	2,487.01	28.30	88.884		
4,100.00	3,974.07	2,938.87	2,827.29	21.11	14.07	68.46	2,236.72	-1,372.62	2,552.19	2,522.39	29.81	85.627		
4,200.00	4,069.23	3,012.00	2,892.72	21.77	14.63	69.06	2,268.97	-1,377.72	2,588.13	2,557.46	30.67	84.389		
4,300.00	4,164.40	3,082.43	2,955.55	22.42	15.18	69.64	2,300.42	-1,382.61	2,625.01	2,593.49	31.51	83.304		
4,400.00	4,259.56	3,137.39	3,004.35	23.08	15.62	70.08	2,325.39	-1,386.52	2,663.07	2,630.85	32.22	82.657		
4,500.00	4,354.73	3,202.00	3,061.20	23.74	16.14	70.60	2,355.74	-1,391.09	2,702.82	2,669.81	33.01	81.883		
4,600.00	4,449.89	3,283.08	3,132.54	24.39	16.80	71.24	2,393.88	-1,396.55	2,743.07	2,709.12	33.95	80.802		
4,700.00	4,545.06	3,353.91	3,194.92	25.05	17.39	71.78	2,427.09	-1,401.36	2,783.60	2,748.80	34.80	79.997		
4,800.00	4,640.22	3,390.00	3,226.49	25.71	17.69	72.05	2,444.36	-1,404.02	2,825.62	2,790.30	35.32	80.002		
4,900.00	4,735.39	3,459.03	3,286.50	26.37	18.28	72.56	2,478.07	-1,409.33	2,868.81	2,832.66	36.15	79.356		
5,000.00	4,830.55	3,511.75	3,332.00	27.03	18.74	72.93	2,504.37	-1,413.46	2,913.28	2,876.46	36.83	79.110		
5,100.00	4,925.72	3,581.00	3,391.30	27.69	19.35	73.42	2,539.71	-1,418.97	2,959.08	2,921.42	37.66	78.569		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,020.88	4,705.61	4,433.17	28.35	27.08	80.42	2,937.61	-1,479.04	2,992.54	2,946.23	46.32	64.612		
5,300.00	5,116.05	4,790.05	4,516.04	29.01	27.47	80.93	2,953.73	-1,480.32	3,007.52	2,960.22	47.30	63.588		
5,400.00	5,211.21	5,460.64	5,181.63	29.67	29.79	84.78	3,021.80	-1,490.01	3,015.55	2,965.51	50.04	60.267		
5,500.00	5,306.38	5,563.02	5,284.00	30.33	30.02	85.36	3,022.08	-1,491.10	3,013.15	2,962.13	51.02	59.055		
5,600.00	5,401.54	5,655.00	5,375.98	30.99	30.22	85.88	3,022.25	-1,491.99	3,010.95	2,958.96	52.00	57.907		
5,700.00	5,496.71	5,727.15	5,448.07	31.65	30.38	82.20	3,022.85	-1,489.78	3,009.34	2,956.39	52.94	56.840		
5,800.00	5,591.13	5,935.00	5,648.73	32.30	30.74	57.27	3,021.71	-1,438.77	2,994.43	2,940.41	54.02	55.434		
5,900.00	5,682.22	5,982.00	5,692.92	32.92	30.82	40.96	3,021.41	-1,422.77	2,964.18	2,909.28	54.90	53.997		
6,000.00	5,767.23	6,000.41	5,709.97	33.50	30.85	31.57	3,021.58	-1,415.83	2,919.80	2,864.14	55.66	52.454		
6,100.00	5,843.56	6,029.00	5,736.02	34.04	30.90	26.34	3,022.08	-1,404.08	2,862.37	2,806.01	56.36	50.786		
6,200.00	5,908.90	6,112.32	5,808.84	34.53	31.02	24.79	3,023.19	-1,363.68	2,792.45	2,735.34	57.11	48.899		
6,300.00	5,961.25	6,137.91	5,830.29	34.99	31.06	24.02	3,023.33	-1,349.74	2,711.90	2,654.25	57.64	47.046		
6,400.00	5,999.04	6,152.02	5,841.91	35.42	31.08	24.91	3,023.45	-1,341.74	2,623.04	2,564.98	58.05	45.184		
6,500.00	6,021.11	6,169.00	5,855.69	35.83	31.10	30.17	3,023.65	-1,331.81	2,528.04	2,469.66	58.37	43.309		
6,600.00	6,027.00	6,169.00	5,855.69	36.24	31.10	48.54	3,023.65	-1,331.81	2,429.29	2,370.76	58.53	41.504		
6,700.00	6,027.00	6,169.00	5,855.69	36.68	31.10	48.54	3,023.65	-1,331.81	2,329.79	2,271.14	58.66	39.719		
6,800.00	6,027.00	6,169.00	5,855.69	37.20	31.10	48.54	3,023.65	-1,331.81	2,230.34	2,171.54	58.79	37.936		
6,900.00	6,027.00	6,169.00	5,855.69	37.80	31.10	48.54	3,023.65	-1,331.81	2,130.93	2,071.99	58.94	36.154		
7,000.00	6,027.00	6,169.00	5,855.69	38.47	31.10	48.54	3,023.65	-1,331.81	2,031.59	1,972.48	59.10	34.373		
7,100.00	6,027.00	6,169.00	5,855.69	39.21	31.10	48.54	3,023.65	-1,331.81	1,932.31	1,873.02	59.28	32.594		
7,200.00	6,027.00	6,169.00	5,855.69	40.02	31.10	48.54	3,023.65	-1,331.81	1,833.11	1,773.63	59.48	30.818		
7,300.00	6,027.00	6,169.00	5,855.69	40.89	31.10	48.54	3,023.65	-1,331.81	1,734.00	1,674.30	59.70	29.044		
7,400.00	6,027.00	6,169.00	5,855.69	41.83	31.10	48.54	3,023.65	-1,331.81	1,635.00	1,575.05	59.95	27.273		
7,500.00	6,027.00	6,169.00	5,855.69	42.83	31.10	48.54	3,023.65	-1,331.81	1,536.13	1,475.91	60.23	25.506		
7,600.00	6,027.00	6,169.00	5,855.69	43.88	31.10	48.54	3,023.65	-1,331.81	1,437.42	1,376.88	60.54	23.744		
7,700.00	6,027.00	6,169.00	5,855.69	44.99	31.10	48.54	3,023.65	-1,331.81	1,338.90	1,278.00	60.90	21.986		
7,800.00	6,027.00	6,169.00	5,855.69	46.14	31.10	48.54	3,023.65	-1,331.81	1,240.61	1,179.30	61.31	20.236		
7,900.00	6,027.00	6,169.00	5,855.69	47.33	31.10	48.54	3,023.65	-1,331.81	1,142.62	1,080.84	61.78	18.494		
8,000.00	6,027.00	6,174.77	5,860.32	48.57	31.11	49.93	3,023.73	-1,328.38	1,044.99	982.55	62.45	16.734		
8,100.00	6,027.00	6,175.82	5,861.16	49.84	31.11	50.19	3,023.74	-1,327.75	947.88	884.72	63.15	15.009		
8,200.00	6,027.00	6,176.89	5,862.02	51.15	31.11	50.44	3,023.76	-1,327.11	851.42	787.42	64.00	13.303		
8,300.00	6,027.00	6,177.98	5,862.89	52.48	31.11	50.71	3,023.77	-1,326.46	755.89	690.84	65.05	11.620		
8,400.00	6,027.00	6,179.09	5,863.78	53.85	31.11	50.97	3,023.79	-1,325.79	661.68	595.31	66.36	9.970		
8,500.00	6,027.00	6,180.22	5,864.68	55.24	31.12	51.25	3,023.80	-1,325.11	569.44	501.41	68.02	8.371		
8,600.00	6,027.00	6,181.37	5,865.60	56.65	31.12	51.53	3,023.82	-1,324.42	480.31	410.17	70.14	6.848		
8,700.00	6,027.00	6,182.54	5,866.54	58.08	31.12	51.81	3,023.84	-1,323.71	396.40	323.65	72.75	5.449		
8,800.00	6,027.00	6,183.74	5,867.50	59.54	31.12	52.10	3,023.86	-1,322.99	321.81	246.27	75.54	4.260		
8,900.00	6,027.00	6,184.97	5,868.47	61.01	31.12	52.40	3,023.87	-1,322.25	264.56	187.70	76.86	3.442		
9,000.00	6,027.00	6,186.21	5,869.46	62.50	31.12	52.70	3,023.89	-1,321.50	237.52	164.70	72.82	3.262 ES, SF		
9,017.89	6,027.00	6,186.44	5,869.64	62.77	31.12	52.75	3,023.90	-1,321.36	236.85	165.53	71.32	3.321 CC		
9,100.00	6,027.00	6,187.49	5,870.48	64.01	31.13	53.01	3,023.91	-1,320.73	250.68	187.98	62.70	3.998		
9,200.00	6,027.00	6,188.78	5,871.51	65.53	31.13	53.32	3,023.93	-1,319.94	298.76	245.33	53.43	5.592		
9,300.00	6,027.00	6,190.11	5,872.56	67.06	31.13	53.64	3,023.95	-1,319.13	368.33	319.55	48.78	7.551		
9,400.00	6,027.00	6,191.47	5,873.64	68.61	31.13	53.97	3,023.97	-1,318.31	449.53	402.18	47.36	9.493		
9,500.00	6,027.00	6,192.85	5,874.73	70.17	31.13	54.30	3,024.00	-1,317.47	537.11	489.75	47.35	11.342		
9,600.00	6,027.00	6,194.26	5,875.85	71.73	31.13	54.64	3,024.02	-1,316.61	628.40	580.55	47.85	13.132		
9,700.00	6,027.00	6,195.70	5,877.00	73.31	31.14	54.99	3,024.04	-1,315.73	722.00	673.52	48.48	14.893		
9,800.00	6,027.00	6,197.18	5,878.16	74.90	31.14	55.35	3,024.07	-1,314.82	817.11	768.01	49.10	16.642		
9,900.00	6,027.00	6,198.69	5,879.35	76.50	31.14	55.71	3,024.09	-1,313.90	913.27	863.60	49.67	18.387		
10,000.00	6,027.00	6,200.23	5,880.57	78.10	31.14	56.08	3,024.12	-1,312.95	1,010.17	959.99	50.18	20.131		
10,100.00	6,027.00	6,201.80	5,881.81	79.71	31.14	56.46	3,024.14	-1,311.98	1,107.62	1,056.98	50.63	21.875		
10,200.00	6,027.00	6,203.42	5,883.08	81.33	31.15	56.85	3,024.17	-1,310.99	1,205.48	1,154.45	51.03	23.621		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN C-W-9HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	6,027.00	6,205.07	5,884.38	82.96	31.15	57.25	3,024.20	-1,309.97	1,303.67	1,252.28	51.39	25.367		
10,400.00	6,027.00	6,206.76	5,885.71	84.59	31.15	57.65	3,024.23	-1,308.93	1,402.11	1,350.40	51.71	27.114		
10,500.00	6,027.00	6,208.48	5,887.07	86.23	31.15	58.06	3,024.26	-1,307.86	1,500.75	1,448.75	52.00	28.861		
10,600.00	6,027.00	6,210.26	5,888.46	87.87	31.16	58.49	3,024.29	-1,306.76	1,599.56	1,547.31	52.26	30.609		
10,700.00	6,027.00	6,212.07	5,889.88	89.52	31.16	58.92	3,024.33	-1,305.64	1,698.51	1,646.02	52.49	32.356		
10,800.00	6,027.00	6,213.93	5,891.33	91.17	31.16	59.36	3,024.36	-1,304.48	1,797.58	1,744.87	52.71	34.103		
10,900.00	6,027.00	6,215.00	5,892.17	92.83	31.16	59.62	3,024.38	-1,303.81	1,896.74	1,843.82	52.91	35.847		
11,000.00	6,027.00	6,215.00	5,892.17	94.49	31.16	59.62	3,024.38	-1,303.81	1,995.98	1,942.88	53.10	37.586		
11,100.00	6,027.00	6,215.00	5,892.17	96.16	31.16	59.62	3,024.38	-1,303.81	2,095.30	2,042.01	53.28	39.324		
11,200.00	6,027.00	6,215.00	5,892.17	97.83	31.16	59.62	3,024.38	-1,303.81	2,194.67	2,141.22	53.45	41.060		
11,300.00	6,027.00	6,215.00	5,892.17	99.50	31.16	59.62	3,024.38	-1,303.81	2,294.10	2,240.50	53.61	42.793		
11,400.00	6,027.00	6,215.00	5,892.17	101.18	31.16	59.62	3,024.38	-1,303.81	2,393.58	2,339.83	53.76	44.525		
11,500.00	6,027.00	6,215.00	5,892.17	102.86	31.16	59.62	3,024.38	-1,303.81	2,493.10	2,439.20	53.90	46.255		
11,600.00	6,027.00	6,215.00	5,892.17	104.54	31.16	59.62	3,024.38	-1,303.81	2,592.66	2,538.63	54.03	47.982		
11,700.00	6,027.00	6,215.00	5,892.17	106.23	31.16	59.62	3,024.38	-1,303.81	2,692.25	2,638.09	54.16	49.707		
11,800.00	6,027.00	6,215.00	5,892.17	107.92	31.16	59.62	3,024.38	-1,303.81	2,791.87	2,737.59	54.28	51.430		
11,900.00	6,027.00	6,215.00	5,892.17	109.61	31.16	59.62	3,024.38	-1,303.81	2,891.52	2,837.11	54.40	53.151		
12,000.00	6,027.00	6,215.00	5,892.17	111.31	31.16	59.62	3,024.38	-1,303.81	2,991.19	2,936.67	54.52	54.868		
12,100.00	6,027.00	6,215.00	5,892.17	113.00	31.16	59.62	3,024.38	-1,303.81	3,090.88	3,036.25	54.63	56.584		
12,200.00	6,027.00	6,215.00	5,892.17	114.71	31.16	59.62	3,024.38	-1,303.81	3,190.59	3,135.86	54.73	58.296		
12,300.00	6,027.00	6,215.00	5,892.17	116.41	31.16	59.62	3,024.38	-1,303.81	3,290.32	3,235.48	54.83	60.006		
12,400.00	6,027.00	6,215.00	5,892.17	118.11	31.16	59.62	3,024.38	-1,303.81	3,390.06	3,335.13	54.93	61.713		
12,500.00	6,027.00	6,215.00	5,892.17	119.82	31.16	59.62	3,024.38	-1,303.81	3,489.82	3,434.79	55.03	63.417		
12,600.00	6,027.00	6,215.00	5,892.17	121.53	31.16	59.62	3,024.38	-1,303.81	3,589.59	3,534.47	55.12	65.118		
12,700.00	6,027.00	6,215.00	5,892.17	123.24	31.16	59.62	3,024.38	-1,303.81	3,689.37	3,634.16	55.22	66.817		
12,800.00	6,027.00	6,215.00	5,892.17	124.95	31.16	59.62	3,024.38	-1,303.81	3,789.17	3,733.86	55.31	68.512		
12,900.00	6,027.00	6,215.00	5,892.17	126.66	31.16	59.62	3,024.38	-1,303.81	3,888.98	3,833.58	55.40	70.204		
13,000.00	6,027.00	6,215.00	5,892.17	128.38	31.16	59.62	3,024.38	-1,303.81	3,988.79	3,933.31	55.48	71.893		
13,100.00	6,027.00	6,215.00	5,892.17	130.10	31.16	59.62	3,024.38	-1,303.81	4,088.62	4,033.05	55.57	73.579		
13,200.00	6,027.00	6,215.00	5,892.17	131.82	31.16	59.62	3,024.38	-1,303.81	4,188.45	4,132.80	55.65	75.262		
13,300.00	6,027.00	6,215.00	5,892.17	133.54	31.16	59.62	3,024.38	-1,303.81	4,288.29	4,232.56	55.73	76.941		
13,400.00	6,027.00	6,215.00	5,892.17	135.26	31.16	59.62	3,024.38	-1,303.81	4,388.14	4,332.32	55.82	78.617		
13,500.00	6,027.00	6,215.00	5,892.17	136.98	31.16	59.62	3,024.38	-1,303.81	4,487.99	4,432.10	55.90	80.290		
13,600.00	6,027.00	6,215.00	5,892.17	138.71	31.16	59.62	3,024.38	-1,303.81	4,587.86	4,531.88	55.98	81.960		
13,700.00	6,027.00	6,215.00	5,892.17	140.43	31.16	59.62	3,024.38	-1,303.81	4,687.72	4,631.67	56.06	83.626		
13,800.00	6,027.00	6,215.00	5,892.17	142.16	31.16	59.62	3,024.38	-1,303.81	4,787.60	4,731.46	56.13	85.288		
13,900.00	6,027.00	6,215.00	5,892.17	143.89	31.16	59.62	3,024.38	-1,303.81	4,887.47	4,831.26	56.21	86.947		
14,000.00	6,027.00	6,215.00	5,892.17	145.62	31.16	59.62	3,024.38	-1,303.81	4,987.36	4,931.07	56.29	88.603		
14,100.00	6,027.00	6,215.00	5,892.17	147.35	31.16	59.62	3,024.38	-1,303.81	5,087.24	5,030.88	56.37	90.255		
14,200.00	6,027.00	6,215.00	5,892.17	149.08	31.16	59.62	3,024.38	-1,303.81	5,187.14	5,130.69	56.44	91.903		
14,300.00	6,027.00	6,215.00	5,892.17	150.81	31.16	59.62	3,024.38	-1,303.81	5,287.03	5,230.51	56.52	93.548		
14,400.00	6,027.00	6,215.00	5,892.17	152.54	31.16	59.62	3,024.38	-1,303.81	5,386.93	5,330.34	56.59	95.189		
14,500.00	6,027.00	6,215.00	5,892.17	154.28	31.16	59.62	3,024.38	-1,303.81	5,486.83	5,430.17	56.67	96.826		
14,600.00	6,027.00	6,215.00	5,892.17	156.01	31.16	59.62	3,024.38	-1,303.81	5,586.74	5,530.00	56.74	98.459		
14,700.00	6,027.00	6,215.00	5,892.17	157.75	31.16	59.62	3,024.38	-1,303.81	5,686.65	5,629.84	56.82	100.089		
14,800.00	6,027.00	6,215.00	5,892.17	159.49	31.16	59.62	3,024.38	-1,303.81	5,786.57	5,729.68	56.89	101.715		
14,900.00	6,027.00	6,215.00	5,892.17	161.22	31.16	59.62	3,024.38	-1,303.81	5,886.48	5,829.52	56.96	103.337		
15,000.00	6,027.00	6,215.00	5,892.17	162.96	31.16	59.62	3,024.38	-1,303.81	5,986.40	5,929.36	57.04	104.955		
15,100.00	6,027.00	6,215.00	5,892.17	164.70	31.16	59.62	3,024.38	-1,303.81	6,086.32	6,029.21	57.11	106.570		
15,200.00	6,027.00	6,215.00	5,892.17	166.44	31.16	59.62	3,024.38	-1,303.81	6,186.25	6,129.06	57.18	108.180		
15,300.00	6,027.00	6,215.00	5,892.17	168.18	31.16	59.62	3,024.38	-1,303.81	6,286.17	6,228.91	57.26	109.786		
15,400.00	6,027.00	6,215.00	5,892.17	169.93	31.16	59.62	3,024.38	-1,303.81	6,386.10	6,328.77	57.33	111.389		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	6,027.00	6,215.00	5,892.17	171.67	31.16	59.62	3,024.38	-1,303.81	6,486.03	6,428.63	57.41	112.987	
15,600.00	6,027.00	6,215.00	5,892.17	173.41	31.16	59.62	3,024.38	-1,303.81	6,585.97	6,528.49	57.48	114.581	
15,700.00	6,027.00	6,215.00	5,892.17	175.15	31.16	59.62	3,024.38	-1,303.81	6,685.90	6,628.35	57.55	116.172	
15,800.00	6,027.00	6,215.00	5,892.17	176.90	31.16	59.62	3,024.38	-1,303.81	6,785.84	6,728.21	57.63	117.758	
15,900.00	6,027.00	6,215.00	5,892.17	178.64	31.16	59.62	3,024.38	-1,303.81	6,885.78	6,828.08	57.70	119.340	
16,000.00	6,027.00	6,215.00	5,892.17	180.39	31.16	59.62	3,024.38	-1,303.81	6,985.72	6,927.95	57.77	120.918	
16,100.00	6,027.00	6,215.00	5,892.17	182.13	31.16	59.62	3,024.38	-1,303.81	7,085.66	7,027.81	57.85	122.491	
16,200.00	6,027.00	6,215.00	5,892.17	183.88	31.16	59.62	3,024.38	-1,303.81	7,185.60	7,127.68	57.92	124.061	
16,300.00	6,027.00	6,215.00	5,892.17	185.63	31.16	59.62	3,024.38	-1,303.81	7,285.55	7,227.56	57.99	125.626	
16,400.00	6,027.00	6,215.00	5,892.17	187.38	31.16	59.62	3,024.38	-1,303.81	7,385.50	7,327.43	58.07	127.187	
16,500.00	6,027.00	6,215.00	5,892.17	189.12	31.16	59.62	3,024.38	-1,303.81	7,485.44	7,427.30	58.14	128.744	
16,600.00	6,027.00	6,215.00	5,892.17	190.87	31.16	59.62	3,024.38	-1,303.81	7,585.39	7,527.18	58.22	130.297	
16,700.00	6,027.00	6,215.00	5,892.17	192.62	31.16	59.62	3,024.38	-1,303.81	7,685.35	7,627.05	58.29	131.845	
16,795.97	6,027.00	6,215.00	5,892.17	194.30	31.16	59.62	3,024.38	-1,303.81	7,781.27	7,722.91	58.36	133.327	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN D-X-9HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	87.33	87.33	0.27	0.25	-36.97	1,661.29	-1,250.31	2,079.22	2,078.70	0.52	3,991.343		
200.00	200.00	189.25	189.25	0.63	0.62	-36.96	1,661.27	-1,250.14	2,079.11	2,077.87	1.24	1,670.327		
300.00	300.00	291.17	291.17	0.99	0.98	-36.96	1,661.24	-1,249.84	2,078.91	2,076.94	1.97	1,056.074		
400.00	400.00	393.09	393.09	1.34	1.35	-36.95	1,661.20	-1,249.40	2,078.61	2,075.92	2.69	772.056		
500.00	500.00	495.01	495.01	1.70	1.71	-36.94	1,661.14	-1,248.82	2,078.23	2,074.81	3.42	608.366		
600.00	600.00	599.66	599.66	2.06	2.09	-36.92	1,660.97	-1,248.10	2,077.68	2,073.53	4.15	500.740		
700.00	700.00	704.00	703.99	2.42	2.46	-36.91	1,660.58	-1,247.29	2,076.92	2,072.04	4.88	425.545		
800.00	800.00	808.04	808.02	2.78	2.83	-36.90	1,659.98	-1,246.42	2,075.95	2,070.34	5.61	370.015		
900.00	900.00	910.08	910.06	3.14	3.20	-36.89	1,659.22	-1,245.53	2,074.83	2,068.50	6.33	327.625		
1,000.00	999.98	1,011.48	1,011.45	3.49	3.56	52.44	1,658.39	-1,244.61	2,072.57	2,065.53	7.05	294.186		
1,100.00	1,099.84	1,113.39	1,113.35	3.83	3.93	52.64	1,657.50	-1,243.64	2,068.11	2,060.35	7.76	266.660		
1,200.00	1,199.45	1,215.01	1,214.96	4.19	4.29	52.95	1,656.55	-1,242.56	2,061.44	2,052.97	8.47	243.343		
1,300.00	1,298.70	1,307.00	1,306.94	4.55	4.62	53.34	1,655.56	-1,241.69	2,052.68	2,043.52	9.16	224.071		
1,400.00	1,397.47	1,375.09	1,375.03	4.94	4.85	53.73	1,655.07	-1,241.76	2,042.85	2,033.09	9.77	209.189		
1,500.00	1,495.62	1,449.12	1,449.04	5.34	5.10	54.18	1,655.02	-1,243.31	2,032.62	2,022.22	10.40	195.437		
1,600.00	1,593.06	1,525.44	1,525.27	5.78	5.35	54.68	1,654.47	-1,246.76	2,021.38	2,010.32	11.06	182.749		
1,700.00	1,689.64	1,592.00	1,591.66	6.24	5.57	55.15	1,653.88	-1,251.53	2,009.60	1,997.89	11.72	171.536		
1,800.00	1,785.27	1,687.00	1,686.17	6.75	5.89	55.77	1,652.23	-1,261.03	1,996.84	1,984.34	12.51	159.677		
1,900.00	1,880.44	1,755.22	1,753.87	7.30	6.12	56.05	1,650.77	-1,269.30	1,984.15	1,970.92	13.23	149.965		
2,000.00	1,975.60	1,843.72	1,841.51	7.86	6.43	56.39	1,649.11	-1,281.46	1,972.66	1,958.61	14.05	140.382		
2,100.00	2,070.77	1,940.00	1,936.46	8.43	6.79	56.69	1,645.86	-1,297.07	1,961.39	1,946.46	14.93	131.380		
2,200.00	2,165.93	2,035.09	2,029.96	9.02	7.15	56.94	1,641.89	-1,313.93	1,950.33	1,934.50	15.83	123.220		
2,300.00	2,261.10	2,129.98	2,123.28	9.62	7.52	57.19	1,638.19	-1,330.71	1,939.52	1,922.78	16.74	115.838		
2,400.00	2,356.26	2,226.67	2,218.44	10.23	7.91	57.46	1,634.82	-1,347.52	1,928.93	1,911.25	17.68	109.091		
2,500.00	2,451.43	2,321.68	2,312.04	10.84	8.29	57.76	1,631.95	-1,363.57	1,918.53	1,899.90	18.63	102.990		
2,600.00	2,546.59	2,434.92	2,423.55	11.46	8.76	58.10	1,628.24	-1,382.91	1,908.07	1,888.41	19.66	97.040		
2,700.00	2,641.76	2,511.64	2,499.09	12.09	9.08	58.33	1,625.66	-1,396.03	1,897.63	1,877.07	20.56	92.302		
2,800.00	2,736.92	2,589.82	2,576.06	12.72	9.41	58.58	1,624.12	-1,409.64	1,888.51	1,867.05	21.47	87.971		
2,900.00	2,832.09	2,678.40	2,663.30	13.35	9.78	58.88	1,623.28	-1,425.04	1,880.33	1,857.90	22.43	83.839		
3,000.00	2,927.25	2,789.50	2,772.66	13.99	10.26	59.25	1,622.11	-1,444.58	1,872.25	1,848.76	23.49	79.691		
3,100.00	3,022.42	2,911.81	2,893.51	14.63	10.77	59.75	1,620.87	-1,463.27	1,863.09	1,838.49	24.60	75.721		
3,200.00	3,117.58	3,038.38	3,019.33	15.27	11.26	60.43	1,620.65	-1,476.97	1,852.53	1,826.82	25.71	72.045		
3,300.00	3,212.75	3,136.55	3,117.13	15.91	11.64	61.03	1,621.01	-1,485.55	1,841.64	1,814.93	26.71	68.944		
3,400.00	3,307.91	3,262.54	3,242.71	16.56	12.11	61.83	1,621.03	-1,495.55	1,830.35	1,802.54	27.81	65.817		
3,500.00	3,403.08	3,371.58	3,351.57	17.20	12.51	62.59	1,620.42	-1,501.76	1,817.68	1,788.84	28.85	63.015		
3,600.00	3,498.24	3,521.56	3,501.50	17.85	13.03	63.80	1,619.87	-1,505.20	1,804.09	1,774.10	29.99	60.162		
3,700.00	3,593.41	3,634.12	3,614.04	18.50	13.40	64.78	1,617.75	-1,505.05	1,788.39	1,757.38	31.01	57.669		
3,800.00	3,688.57	3,721.89	3,701.79	19.15	13.69	65.56	1,616.15	-1,504.82	1,773.15	1,741.17	31.98	55.446		
3,900.00	3,783.74	3,805.36	3,785.25	19.81	13.96	66.32	1,615.00	-1,504.79	1,758.81	1,725.87	32.94	53.391		
4,000.00	3,878.90	3,886.59	3,866.48	20.46	14.23	67.08	1,614.81	-1,504.37	1,745.69	1,711.79	33.90	51.495		
4,100.00	3,974.07	3,980.32	3,960.21	21.11	14.53	67.98	1,614.96	-1,503.90	1,733.40	1,698.51	34.89	49.677		
4,200.00	4,069.23	4,072.20	4,052.09	21.77	14.83	68.86	1,615.04	-1,503.79	1,721.65	1,685.77	35.89	47.975		
4,300.00	4,164.40	4,156.00	4,135.89	22.42	15.11	69.66	1,615.43	-1,504.23	1,710.93	1,674.06	36.87	46.409		
4,400.00	4,259.56	4,257.08	4,236.96	23.08	15.46	70.62	1,615.96	-1,505.13	1,700.84	1,662.94	37.90	44.873		
4,500.00	4,354.73	4,362.85	4,342.73	23.74	15.82	71.64	1,615.90	-1,505.98	1,690.68	1,651.72	38.96	43.400		
4,600.00	4,449.89	4,470.76	4,450.64	24.39	16.18	72.70	1,615.15	-1,506.46	1,680.30	1,640.28	40.01	41.993		
4,700.00	4,545.06	4,570.96	4,550.82	25.05	16.52	73.74	1,614.30	-1,505.44	1,669.87	1,628.82	41.05	40.681		
4,800.00	4,640.22	4,664.56	4,644.41	25.71	16.82	74.72	1,613.53	-1,504.28	1,659.94	1,617.88	42.06	39.462		
4,900.00	4,735.39	4,758.28	4,738.13	26.37	17.13	75.71	1,612.75	-1,503.36	1,650.63	1,607.55	43.08	38.313		
5,000.00	4,830.55	4,852.35	4,832.19	27.03	17.45	76.71	1,611.98	-1,502.66	1,641.94	1,597.84	44.10	37.229		
5,100.00	4,925.72	4,947.01	4,926.84	27.69	17.76	77.72	1,611.20	-1,502.08	1,633.83	1,588.70	45.13	36.204		
5,200.00	5,020.88	5,046.01	5,025.84	28.35	18.10	78.78	1,610.33	-1,501.59	1,626.26	1,580.10	46.16	35.228		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,300.00	5,116.05	5,136.57	5,116.40	29.01	18.40	79.75	1,609.15	-1,501.31	1,618.91	1,571.73	47.18	34.316		
5,400.00	5,211.21	5,209.73	5,189.55	29.67	18.65	80.56	1,609.21	-1,500.63	1,613.27	1,565.14	48.13	33.518		
5,500.00	5,306.38	5,307.52	5,287.33	30.33	18.97	81.66	1,609.77	-1,499.26	1,608.68	1,559.52	49.15	32.727		
5,600.00	5,401.54	5,400.26	5,380.05	30.99	19.28	82.71	1,610.30	-1,498.06	1,604.70	1,554.54	50.16	31.993		
5,700.00	5,496.71	5,494.18	5,473.96	31.65	19.59	79.64	1,610.94	-1,496.75	1,601.30	1,550.14	51.16	31.300		
5,800.00	5,591.13	5,600.55	5,579.98	32.30	19.92	53.94	1,612.10	-1,488.80	1,587.70	1,535.54	52.17	30.435		
5,900.00	5,682.22	5,789.02	5,758.39	32.92	20.45	41.15	1,609.37	-1,430.74	1,554.89	1,501.63	53.26	29.193		
6,000.00	5,767.23	5,848.88	5,810.09	33.50	20.61	33.53	1,606.67	-1,400.79	1,505.84	1,451.78	54.06	27.856		
6,100.00	5,843.56	5,891.00	5,844.18	34.04	20.74	29.90	1,604.99	-1,376.15	1,445.34	1,390.60	54.75	26.401		
6,200.00	5,908.90	5,931.21	5,874.82	34.53	20.87	29.35	1,603.23	-1,350.17	1,374.57	1,319.21	55.36	24.829		
6,300.00	5,961.25	5,952.50	5,890.28	34.99	20.95	30.50	1,602.16	-1,335.58	1,294.94	1,239.11	55.83	23.192		
6,400.00	5,999.04	5,964.08	5,898.50	35.42	21.00	34.08	1,601.56	-1,327.45	1,208.00	1,151.81	56.19	21.500		
6,500.00	6,021.11	5,968.54	5,901.63	35.83	21.02	42.32	1,601.33	-1,324.28	1,115.28	1,058.84	56.44	19.760		
6,600.00	6,027.00	5,966.61	5,900.28	36.24	21.01	58.50	1,601.43	-1,325.66	1,018.53	961.91	56.62	17.988		
6,700.00	6,027.00	5,962.46	5,897.36	36.68	20.99	57.43	1,601.65	-1,328.59	921.04	864.25	56.79	16.220		
6,800.00	6,027.00	5,958.34	5,894.44	37.20	20.98	56.35	1,601.86	-1,331.49	824.11	767.15	56.96	14.468		
6,900.00	6,027.00	5,954.26	5,891.54	37.80	20.96	55.27	1,602.07	-1,334.35	727.99	670.85	57.14	12.740		
7,000.00	6,027.00	5,950.20	5,888.63	38.47	20.94	54.20	1,602.27	-1,337.18	633.03	575.72	57.31	11.046		
7,100.00	6,027.00	5,938.00	5,879.80	39.21	20.89	50.92	1,602.89	-1,345.57	539.95	482.76	57.19	9.441		
7,200.00	6,027.00	5,938.00	5,879.80	40.02	20.89	50.92	1,602.89	-1,345.57	449.63	392.44	57.19	7.862		
7,300.00	6,027.00	5,938.00	5,879.80	40.89	20.89	50.92	1,602.89	-1,345.57	364.40	307.64	56.76	6.420		
7,400.00	6,027.00	5,938.00	5,879.80	41.83	20.89	50.92	1,602.89	-1,345.57	288.81	233.70	55.11	5.241		
7,500.00	6,027.00	5,930.79	5,874.51	42.83	20.87	48.97	1,603.25	-1,350.46	232.30	182.56	49.74	4.671 SF		
7,597.41	6,027.00	5,927.35	5,871.96	43.85	20.86	48.04	1,603.41	-1,352.76	210.93	169.54	41.38	5.097 CC, ES		
7,600.00	6,027.00	5,927.26	5,871.89	43.88	20.86	48.01	1,603.42	-1,352.82	210.94	169.78	41.17	5.124		
7,700.00	6,027.00	5,923.84	5,869.35	44.99	20.84	47.08	1,603.58	-1,355.10	234.52	197.84	36.68	6.394		
7,800.00	6,027.00	5,920.54	5,866.87	46.14	20.83	46.19	1,603.73	-1,357.28	292.35	253.04	39.31	7.437		
7,900.00	6,027.00	5,917.34	5,864.47	47.33	20.82	45.32	1,603.88	-1,359.38	368.65	325.64	43.01	8.571		
8,000.00	6,027.00	5,914.24	5,862.12	48.57	20.81	44.49	1,604.02	-1,361.40	454.22	408.50	45.72	9.935		
8,100.00	6,027.00	5,911.25	5,859.84	49.84	20.80	43.68	1,604.15	-1,363.34	544.70	497.13	47.57	11.451		
8,200.00	6,027.00	5,908.34	5,857.63	51.15	20.79	42.90	1,604.28	-1,365.22	638.01	589.15	48.86	13.058		
8,300.00	6,027.00	5,905.52	5,855.46	52.48	20.78	42.15	1,604.40	-1,367.02	733.07	683.27	49.80	14.721		
8,400.00	6,027.00	5,902.79	5,853.36	53.85	20.78	41.42	1,604.51	-1,368.76	829.27	778.77	50.50	16.421		
8,500.00	6,027.00	5,900.14	5,851.31	55.24	20.77	40.72	1,604.63	-1,370.44	926.27	875.22	51.05	18.145		
8,600.00	6,027.00	5,891.00	5,844.18	56.65	20.74	38.33	1,604.99	-1,376.15	1,023.87	972.34	51.53	19.869		
8,700.00	6,027.00	5,891.00	5,844.18	58.08	20.74	38.33	1,604.99	-1,376.15	1,121.84	1,069.96	51.87	21.627		
8,800.00	6,027.00	5,891.00	5,844.18	59.54	20.74	38.33	1,604.99	-1,376.15	1,220.13	1,167.98	52.15	23.395		
8,900.00	6,027.00	5,891.00	5,844.18	61.01	20.74	38.33	1,604.99	-1,376.15	1,318.68	1,266.29	52.39	25.171		
9,000.00	6,027.00	5,891.00	5,844.18	62.50	20.74	38.33	1,604.99	-1,376.15	1,417.43	1,364.84	52.59	26.951		
9,100.00	6,027.00	5,884.31	5,838.90	64.01	20.72	36.61	1,605.26	-1,380.25	1,516.33	1,463.51	52.82	28.710		
9,200.00	6,027.00	5,881.39	5,836.58	65.53	20.71	35.87	1,605.37	-1,382.02	1,615.36	1,562.37	52.99	30.484		
9,300.00	6,027.00	5,878.46	5,834.24	67.06	20.70	35.14	1,605.49	-1,383.78	1,714.50	1,661.35	53.15	32.259		
9,400.00	6,027.00	5,875.51	5,831.88	68.61	20.69	34.41	1,605.61	-1,385.53	1,813.72	1,760.43	53.29	34.035		
9,500.00	6,027.00	5,872.55	5,829.50	70.17	20.68	33.69	1,605.72	-1,387.29	1,913.02	1,859.60	53.42	35.811		
9,600.00	6,027.00	5,869.58	5,827.10	71.73	20.67	32.97	1,605.84	-1,389.03	2,012.39	1,958.85	53.54	37.586		
9,700.00	6,027.00	5,866.60	5,824.68	73.31	20.67	32.25	1,605.96	-1,390.77	2,111.81	2,058.15	53.65	39.361		
9,800.00	6,027.00	5,863.60	5,822.23	74.90	20.66	31.54	1,606.08	-1,392.50	2,211.27	2,157.51	53.76	41.134		
9,900.00	6,027.00	5,860.59	5,819.77	76.50	20.65	30.84	1,606.20	-1,394.22	2,310.78	2,256.92	53.86	42.906		
10,000.00	6,027.00	5,857.57	5,817.28	78.10	20.64	30.14	1,606.32	-1,395.94	2,410.32	2,356.37	53.95	44.677		
10,100.00	6,027.00	5,854.53	5,814.77	79.71	20.63	29.46	1,606.45	-1,397.65	2,509.89	2,455.85	54.04	46.447		
10,200.00	6,027.00	5,851.48	5,812.25	81.33	20.62	28.77	1,606.57	-1,399.35	2,609.49	2,555.37	54.12	48.214		
10,300.00	6,027.00	5,851.00	5,811.85	82.96	20.62	28.67	1,606.59	-1,399.62	2,709.12	2,654.93	54.19	49.993		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 9-T5N-R61W - EXIST HZ PRONGHORN D-X-9HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	6,027.00	5,845.62	5,807.37	84.59	20.60	27.49	1,606.81	-1,402.58	2,808.77	2,754.49	54.28	51.745		
10,500.00	6,027.00	5,839.91	5,802.57	86.23	20.59	26.28	1,607.04	-1,405.67	2,908.43	2,854.06	54.37	53.492		
10,600.00	6,027.00	5,833.83	5,797.43	87.87	20.57	25.04	1,607.30	-1,408.91	3,008.11	2,953.65	54.46	55.236		
10,700.00	6,027.00	5,827.34	5,791.91	89.52	20.55	23.75	1,607.58	-1,412.31	3,107.81	3,053.26	54.55	56.975		
10,800.00	6,027.00	5,820.41	5,785.97	91.17	20.54	22.43	1,607.90	-1,415.87	3,207.51	3,152.87	54.63	58.709		
10,900.00	6,027.00	5,813.00	5,779.57	92.83	20.52	21.09	1,608.25	-1,419.59	3,307.22	3,252.50	54.72	60.439		
11,000.00	6,027.00	5,805.04	5,772.65	94.49	20.49	19.71	1,608.63	-1,423.49	3,406.93	3,352.13	54.81	62.164		
11,100.00	6,027.00	5,798.00	5,766.47	96.16	20.47	18.55	1,608.99	-1,426.87	3,506.66	3,451.77	54.89	63.891		
11,200.00	6,027.00	5,798.00	5,766.47	97.83	20.47	18.55	1,608.99	-1,426.87	3,606.39	3,551.45	54.94	65.648		
11,300.00	6,027.00	5,798.00	5,766.47	99.50	20.47	18.55	1,608.99	-1,426.87	3,706.13	3,651.15	54.98	67.403		
11,400.00	6,027.00	5,798.00	5,766.47	101.18	20.47	18.55	1,608.99	-1,426.87	3,805.89	3,750.86	55.03	69.156		
11,500.00	6,027.00	5,798.00	5,766.47	102.86	20.47	18.55	1,608.99	-1,426.87	3,905.67	3,850.59	55.08	70.907		
11,600.00	6,027.00	5,798.00	5,766.47	104.54	20.47	18.55	1,608.99	-1,426.87	4,005.45	3,950.32	55.13	72.655		
11,700.00	6,027.00	5,798.00	5,766.47	106.23	20.47	18.55	1,608.99	-1,426.87	4,105.24	4,050.07	55.18	74.400		
11,800.00	6,027.00	5,798.00	5,766.47	107.92	20.47	18.55	1,608.99	-1,426.87	4,205.05	4,149.82	55.23	76.143		
11,900.00	6,027.00	5,798.00	5,766.47	109.61	20.47	18.55	1,608.99	-1,426.87	4,304.86	4,249.59	55.27	77.883		
12,000.00	6,027.00	5,781.84	5,752.14	111.31	20.43	16.11	1,609.76	-1,434.28	4,404.60	4,349.22	55.38	79.535		
12,100.00	6,027.00	5,780.29	5,750.75	113.00	20.43	15.89	1,609.83	-1,434.96	4,504.41	4,448.98	55.43	81.261		
12,200.00	6,027.00	5,778.77	5,749.39	114.71	20.42	15.67	1,609.90	-1,435.63	4,604.23	4,548.75	55.48	82.983		
12,300.00	6,027.00	5,777.29	5,748.06	116.41	20.42	15.47	1,609.97	-1,436.27	4,704.06	4,648.52	55.54	84.703		
12,400.00	6,027.00	5,775.85	5,746.75	118.11	20.41	15.27	1,610.03	-1,436.90	4,803.89	4,748.30	55.59	86.420		
12,500.00	6,027.00	5,774.43	5,745.48	119.82	20.41	15.08	1,610.09	-1,437.51	4,903.73	4,848.09	55.64	88.134		
12,600.00	6,027.00	5,773.05	5,744.23	121.53	20.41	14.90	1,610.15	-1,438.11	5,003.57	4,947.88	55.69	89.845		
12,700.00	6,027.00	5,771.70	5,743.01	123.24	20.40	14.72	1,610.21	-1,438.68	5,103.42	5,047.67	55.74	91.553		
12,800.00	6,027.00	5,770.37	5,741.81	124.95	20.40	14.54	1,610.26	-1,439.24	5,203.27	5,147.47	55.79	93.258		
12,900.00	6,027.00	5,769.08	5,740.64	126.66	20.40	14.38	1,610.32	-1,439.79	5,303.13	5,247.28	55.85	94.959		
13,000.00	6,027.00	5,753.00	5,725.95	128.38	20.35	12.44	1,610.93	-1,446.30	5,403.05	5,347.12	55.94	96.589		
13,100.00	6,027.00	5,753.00	5,725.95	130.10	20.35	12.44	1,610.93	-1,446.30	5,502.91	5,446.92	55.99	98.290		
13,200.00	6,027.00	5,753.00	5,725.95	131.82	20.35	12.44	1,610.93	-1,446.30	5,602.77	5,546.73	56.03	99.987		
13,300.00	6,027.00	5,753.00	5,725.95	133.54	20.35	12.44	1,610.93	-1,446.30	5,702.63	5,646.55	56.08	101.681		
13,400.00	6,027.00	5,753.00	5,725.95	135.26	20.35	12.44	1,610.93	-1,446.30	5,802.50	5,746.37	56.13	103.371		
13,500.00	6,027.00	5,753.00	5,725.95	136.98	20.35	12.44	1,610.93	-1,446.30	5,902.38	5,846.19	56.18	105.058		
13,600.00	6,027.00	5,753.00	5,725.95	138.71	20.35	12.44	1,610.93	-1,446.30	6,002.25	5,946.02	56.23	106.742		
13,700.00	6,027.00	5,753.00	5,725.95	140.43	20.35	12.44	1,610.93	-1,446.30	6,102.14	6,045.85	56.28	108.422		
13,800.00	6,027.00	5,753.00	5,725.95	142.16	20.35	12.44	1,610.93	-1,446.30	6,202.02	6,145.69	56.33	110.098		
13,900.00	6,027.00	5,753.00	5,725.95	143.89	20.35	12.44	1,610.93	-1,446.30	6,301.91	6,245.53	56.38	111.771		
14,000.00	6,027.00	5,753.00	5,725.95	145.62	20.35	12.44	1,610.93	-1,446.30	6,401.80	6,345.37	56.43	113.440		
14,100.00	6,027.00	5,753.00	5,725.95	147.35	20.35	12.44	1,610.93	-1,446.30	6,501.70	6,445.22	56.48	115.105		
14,200.00	6,027.00	5,753.00	5,725.95	149.08	20.35	12.44	1,610.93	-1,446.30	6,601.60	6,545.06	56.54	116.767		
14,300.00	6,027.00	5,753.00	5,725.95	150.81	20.35	12.44	1,610.93	-1,446.30	6,701.50	6,644.91	56.59	118.425		
14,400.00	6,027.00	5,753.00	5,725.95	152.54	20.35	12.44	1,610.93	-1,446.30	6,801.41	6,744.77	56.64	120.079		
14,500.00	6,027.00	5,753.00	5,725.95	154.28	20.35	12.44	1,610.93	-1,446.30	6,901.31	6,844.62	56.69	121.729		
14,600.00	6,027.00	5,753.00	5,725.95	156.01	20.35	12.44	1,610.93	-1,446.30	7,001.23	6,944.48	56.75	123.376		
14,700.00	6,027.00	5,753.00	5,725.95	157.75	20.35	12.44	1,610.93	-1,446.30	7,101.14	7,044.34	56.80	125.018		
14,800.00	6,027.00	5,753.00	5,725.95	159.49	20.35	12.44	1,610.93	-1,446.30	7,201.05	7,144.20	56.85	126.657		
14,900.00	6,027.00	5,753.00	5,725.95	161.22	20.35	12.44	1,610.93	-1,446.30	7,300.97	7,244.06	56.91	128.291		
15,000.00	6,027.00	5,753.00	5,725.95	162.96	20.35	12.44	1,610.93	-1,446.30	7,400.89	7,343.93	56.96	129.922		
15,100.00	6,027.00	5,753.00	5,725.95	164.70	20.35	12.44	1,610.93	-1,446.30	7,500.81	7,443.79	57.02	131.548		
15,200.00	6,027.00	5,753.00	5,725.95	166.44	20.35	12.44	1,610.93	-1,446.30	7,600.74	7,543.66	57.08	133.171		
15,300.00	6,027.00	5,753.00	5,725.95	168.18	20.35	12.44	1,610.93	-1,446.30	7,700.66	7,643.53	57.13	134.789		
15,400.00	6,027.00	5,753.00	5,725.95	169.93	20.35	12.44	1,610.93	-1,446.30	7,800.59	7,743.40	57.19	136.404		
15,500.00	6,027.00	5,753.00	5,725.95	171.67	20.35	12.44	1,610.93	-1,446.30	7,900.52	7,843.28	57.24	138.014		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	6,027.00	5,753.00	5,725.95	173.41	20.35	12.44	1,610.93	-1,446.30	8,000.45	7,943.15	57.30	139.620	
15,700.00	6,027.00	5,753.00	5,725.95	175.15	20.35	12.44	1,610.93	-1,446.30	8,100.39	8,043.03	57.36	141.222	
15,800.00	6,027.00	5,753.00	5,725.95	176.90	20.35	12.44	1,610.93	-1,446.30	8,200.32	8,142.90	57.42	142.819	
15,900.00	6,027.00	5,753.00	5,725.95	178.64	20.35	12.44	1,610.93	-1,446.30	8,300.26	8,242.78	57.48	144.413	
16,000.00	6,027.00	5,753.00	5,725.95	180.39	20.35	12.44	1,610.93	-1,446.30	8,400.20	8,342.66	57.53	146.002	
16,100.00	6,027.00	5,753.00	5,725.95	182.13	20.35	12.44	1,610.93	-1,446.30	8,500.14	8,442.54	57.59	147.587	
16,200.00	6,027.00	5,753.00	5,725.95	183.88	20.35	12.44	1,610.93	-1,446.30	8,600.08	8,542.42	57.65	149.167	
16,300.00	6,027.00	5,753.00	5,725.95	185.63	20.35	12.44	1,610.93	-1,446.30	8,700.02	8,642.31	57.71	150.743	
16,400.00	6,027.00	5,753.00	5,725.95	187.38	20.35	12.44	1,610.93	-1,446.30	8,799.96	8,742.19	57.77	152.315	
16,500.00	6,027.00	5,753.00	5,725.95	189.12	20.35	12.44	1,610.93	-1,446.30	8,899.91	8,842.07	57.84	153.882	
16,600.00	6,027.00	5,753.00	5,725.95	190.87	20.35	12.44	1,610.93	-1,446.30	8,999.85	8,941.96	57.90	155.446	
16,700.00	6,027.00	5,753.00	5,725.95	192.62	20.35	12.44	1,610.93	-1,446.30	9,099.80	9,041.84	57.96	157.004	
16,795.97	6,027.00	5,753.00	5,725.95	194.30	20.35	12.44	1,610.93	-1,446.30	9,195.72	9,137.70	58.02	158.496	

# Civitas Resources

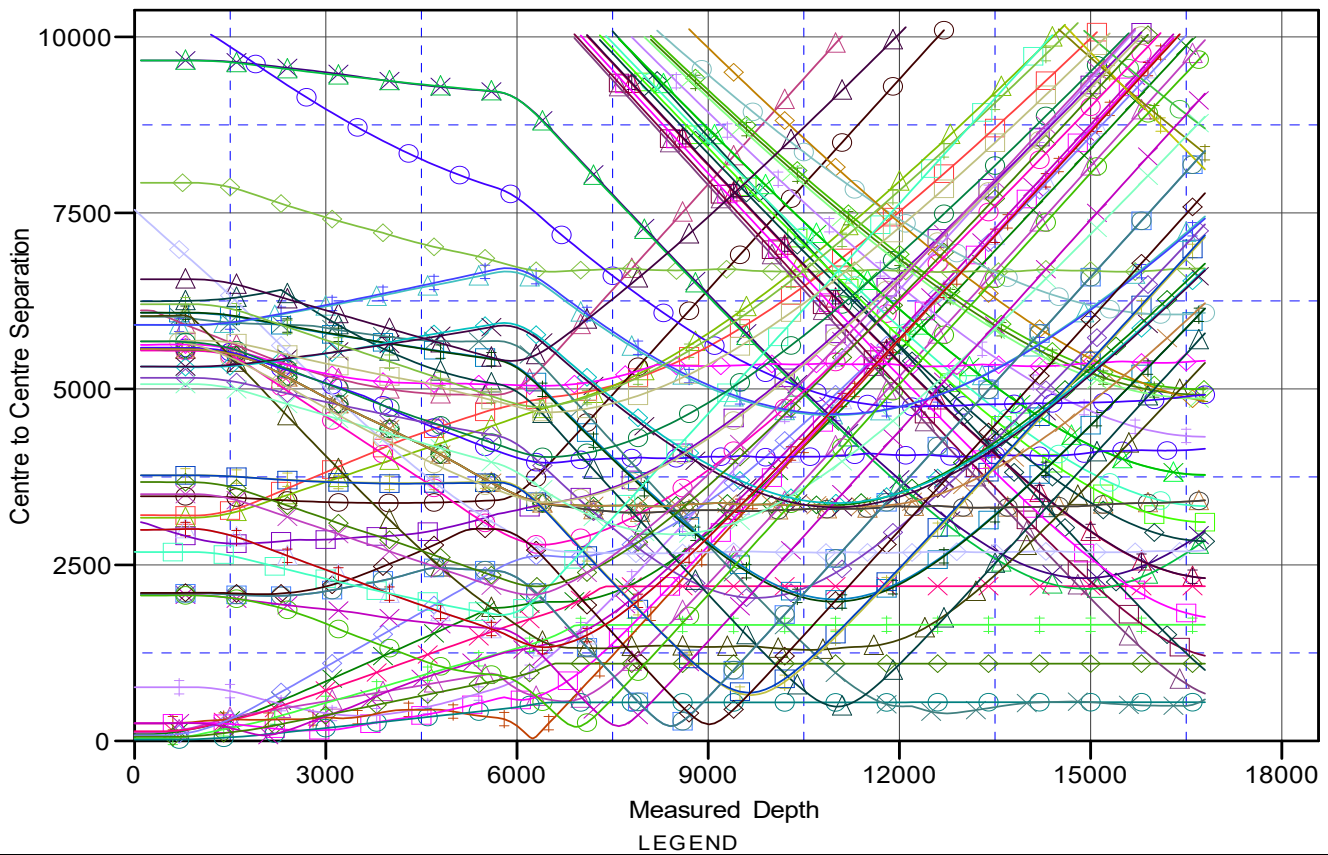
## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PH FENRIR F16 08N-20-03
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4668.00usft
<b>Reference Site:</b>	SEC 16-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4668.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PH FENRIR F16 08N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 25' @ 4668.00usft  
Offset Depths are relative to Offset Datum  
Central Meridian is 105.500000°W

Coordinates are relative to: PH FENRIR F16 08N-20-03  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.83°

### Ladder Plot



#### LEGEND

STATE PH FENRIR F16 16S-10-05, OMB, PROPOSAL 1 V0	PRONGHORN K-5 FED 32N-20-03, OMB, PROPOSAL 2 V0	EXIST HZ PRONGHORN 248-5XRLNB, OMB, FINAL SURVEY V0
EXIST HZ KUNSE MILLER 561-20-0801B2B, OMB, FINAL SURVEY V0	ABND VERT PRONGHORN 32-5, OMB, GYRO V0	ABND VERT WILLIAMS 8-1, OMB, Design #1 V0
ABND VERT STATE PRONGHORN 11-16, OMB, Design #1 V0	ABND VERT PRONGHORN 32-5, OMB, Design #1 V0	EXIST HZ PRONGHORN D-9HNB, OMB, FINAL SURVEY V0
SI HZ STATE PRONGHORN 44-16HZ, OMB, FINAL SURVEY V0	EXIST HZ ROSENBERG 68-3-0687BH, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN 411-9HZ, OMB, FINAL SURVEY V0
PH FENRIR F16 17U-20-04, OMB, PROPOSAL 1 V0	ABND VERT PRONGHORN 41-8, OMB, Design #1 V0	ABND VERT PRONGHORN 42-9 (GYRO), OMB, Design #1 V0
PH FENRIR F16 08N-20-01, OMB, PROPOSAL 1 V0	EXIST HZ PRONGHORN K-58XRLNB, OMB, FINAL SURVEY V0	ABND VERT PRONGHORN 42-9 (GYRO), OMB, Design #1 V0
ABND VERT PRONGHORN 41-16, OMB, Design #1 V0	PRONGHORN K-5 FED 32N-20-06, OMB, PROPOSAL 1 V0	ABND VERT PRONGHORN 41-9 (GYRO), OMB, Design #1 V0
PH FENRIR F16 08N-20-01W, OMB, PROPOSAL 1 V0	EXIST HZ PRONGHORN E-88XRLNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN 1343-9HNB, STK 1, STK 1 V0
EXIST HZ STATE PRONGHORN 31-34-18HNB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-01, OMB, PROPOSAL 1 V0	EXIST HZ PRONGHORN 1343-9HNB, OMB, FINAL SURVEY V0
SI HZ STATE PRONGHORN 31-34-18HNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN J-88XRLNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN C-9HNB, OMB, FINAL SURVEY V0
EXIST HZ STATE PRONGHORN 11-14-18HNB, OMB, FINAL SURVEY V0	ABND VERT BOWMAN 32-1, OMB, Design #1 V0	ABND VERT PRONGHORN 1444-9HNB, OMB, FINAL SURVEY V0
PH FENRIR F16 08N-20-02, OMB, PROPOSAL 1 V0	EXIST HZ PRONGHORN 1441-4HNB, OMB, FINAL SURVEY V0	ABND VERT PRONGHORN 1444-9HNB, OMB, FINAL SURVEY V0
STATE PH FENRIR F16 16U-20-06, OMB, PROPOSAL 1 V0	ABND VERT FURROW 1, OMB, Design #1 V0	ABND VERT PRONGHORN 1444-9HNB, OMB, FINAL SURVEY V0
EXIST HZ STATE PRONGHORN F-16HNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN 248-5XRLNB, OMB, FINAL SURVEY V0	ABND VERT PRONGHORN 1444-9HNB, OMB, FINAL SURVEY V0
ABND VERT STATE 1 (NO CSG), OMB, Design #1 V0	PRONGHORN K-5 FED 32N-20-04, OMB, SURFACE V0	ABND VERT PRONGHORN 1444-9HNB, OMB, FINAL SURVEY V0
PH FENRIR F16 08N-20-01E, OMB, PROPOSAL 1 V0	PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 2 V0	EXIST HZ PRONGHORN P-17HNB, STK 1, STK 1 V0
EXIST HZ PRONGHORN T-76XRLNB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 1 V0	EXIST HZ PRONGHORN P-17HNB, STK 1, STK 1 V0
PRONGHORN K-5 FED 32N-20-05, OMB, PROPOSAL 1 V0	PRONGHORN K-5 FED 32N-20-05, OMB, PROPOSAL 1 V0	ABND VERT PRONGHORN 1444-9HNB, OMB, FINAL SURVEY V0
PRONGHORN K-5 FED 32N-20-07, OMB, PROPOSAL 1 V0	EXIST HZ PRONGHORN 1144-9HZ, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN 1144-9HNB, OMB, FINAL SURVEY V0
EXIST HZ ROSENBERG 68-3-07068BH, OMB, FINAL SURVEY V0	EXIST PRONGHORN K-10-12HNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN 2124-17HNB, OMB, FINAL SURVEY V0
EXIST HZ PRONGHORN 44-3H, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN P-17HNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN 3134-17HZ, OMB, FINAL SURVEY V0
PRONGHORN K-5 FED 32N-20-02, OMB, SURFACE V0	ABND VERT PRONGHORN 32-8, OMB, Design #1 V0	EXIST HZ PRONGHORN F-17HNB, OMB, FINAL SURVEY V0
PRONGHORN K-5 FED 32N-20-02, OMB, PROPOSAL 2 V0	ABND VERT PRONGHORN 32-8 (GYRO), OMB, GYRO SURVEY V0	ABND VERT PRONGHORN 32-8 (GYRO), OMB, Design #1 V0
PRONGHORN K-5 FED 32N-20-03, OMB, PROPOSAL 1 V0	EXIST HZ PRONGHORN 248-5XRLNB, STK 2, STK 2 V0	
PRONGHORN K-5 FED 32N-20-03, OMB, SURFACE V0		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Civitas Resources

## Anticollision Report

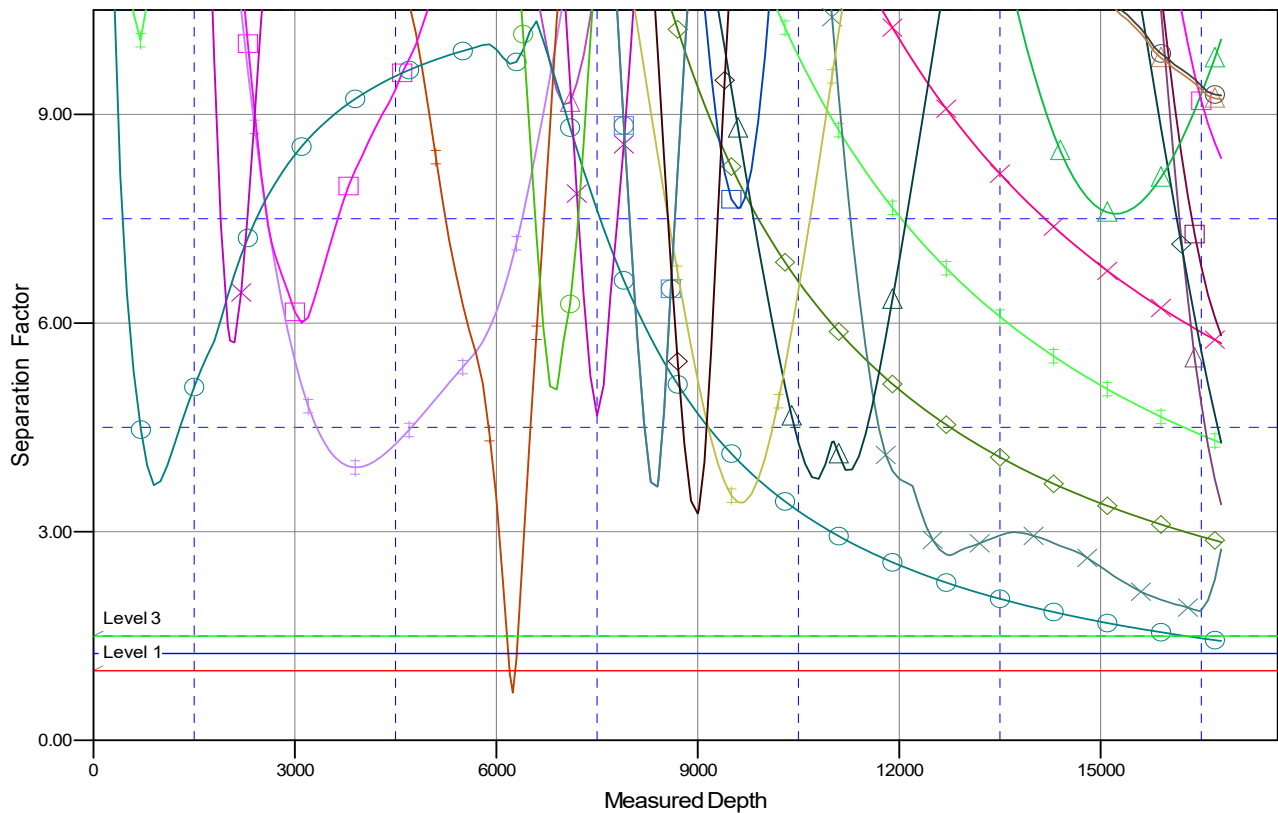
**Company:** BONANZA CREEK ENERGY  
**Project:** WELD COUNTY  
**Reference Site:** SEC 16-T5N-R61W  
**Site Error:** 0.00 usft  
**Reference Well:** PH FENRIR F16 08N-20-03  
**Well Error:** 0.00 usft  
**Reference Wellbore:** OWB  
**Reference Design:** PROPOSAL 1

**Local Co-ordinate Reference:** Well PH FENRIR F16 08N-20-03  
**TVD Reference:** KB 25' @ 4668.00usft  
**MD Reference:** KB 25' @ 4668.00usft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to KB 25' @ 4668.00usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 105.500000°W

Coordinates are relative to: PH FENRIR F16 08N-20-03  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.83°

### Separation Factor Plot



#### LEGEND

- |  |  |  |
|--|--|--|
| STATE PH FENRIR F16 16S-10-05, OMB, PROPOSAL 1 V0          | PRONGHORN K-5 FED 32N-20-03, OMB, PROPOSAL 2 V0      | EXIST HZ PRONGHORN 248-5XRLNB, OMB, FINAL SURVEY V0          |
| EXIST HZ KUNSEMILLER 561-20-0801B2B, OMB, FINAL SURVEY V0  | ABND VERT PRONGHORN 32-5, OMB, GYRO V0               | ABND VERT WILLIAMS 8-1, OMB, Design #1 V0                    |
| ABND VERT STATE PRONGHORN 11-16, OMB, Design #1 V0         | ABND VERT PRONGHORN 32-5, OMB, Design #1 V0          | EXIST HZ PRONGHORN D-X9HNB, OMB, FINAL SURVEY V0             |
| SI HZ STATE PRONGHORN 44-16HZ, OMB, FINAL SURVEY V0        | EXIST HZ ROSENBERG 6-8-30576H, OMB, FINAL SURVEY V0  | EXIST HZ PRONGHORN 411-19HZ, OMB, FINAL SURVEY V0            |
| PH FENRIR F16 17U-20-04, OMB, PROPOSAL 1 V0                | ABND VERT PRONGHORN 41-8, OMB, Design #1 V0          | ABND VERT PRONGHORN 42-9 (GYRO), OMB, Design #1 V0           |
| PH FENRIR F16 08N-20-01, OMB, PROPOSAL 1 V0                | EXIST HZ PRONGHORN K-5XRLNB, OMB, FINAL SURVEY V0    | ABND VERT PRONGHORN 42-9 (GYRO), GYRO SURVEY, GYRO SURVEY V0 |
| ABND VERT PRONGHORN 41-16, OMB, Design #1 V0               | PRONGHORN K-5 FED 32N-20-06, OMB, PROPOSAL 1 V0      | ABND VERT PRONGHORN 41-9 (GYRO), OMB, Design #1 V0           |
| PH FENRIR F16 08N-20-01W, OMB, PROPOSAL 1 V0               | EXIST HZ PRONGHORN J-8XRLNB, OMB, FINAL SURVEY V0    | EXIST HZ PRONGHORN 1343-9HNB, STK 1, STK 1 V0                |
| EXIST HZ STATE PRONGHORN A-E-19HNB, OMB, FINAL SURVEY V0   | PRONGHORN K-5 FED 32N-20-01, OMB, PROPOSAL 1 V0      | EXIST HZ PRONGHORN 1343-9HNB, OMB, FINAL SURVEY V0           |
| SI HZ STATE PRONGHORN 31-34-19HNB, OMB, FINAL SURVEY V0    | ABND VERT BOWMAN 32-1, OMB, Design #1 V0             | EXIST HZ PRONGHORN C-W9HNB, OMB, FINAL SURVEY V0             |
| EXIST HZ STATE PRONGHORN 11-14-19HNB, OMB, FINAL SURVEY V0 | EXIST HZ PRONGHORN 1411-4HNB, OMB, FINAL SURVEY V0   | EXIST HZ PRONGHORN 1444-9HNB, OMB, FINAL SURVEY V0           |
| PH FENRIR F16 08N-20-02, OMB, PROPOSAL 1 V0                | ABND VERT FURROW 1, OMB, Design #1 V0                | ABND VERT PRONGHORN 3-9 (GYRO), GYRO SURVEY, GYRO SURVEY V0  |
| STATE PH FENRIR F16 16U-20-05, OMB, PROPOSAL 1 V0          | EXIST HZ PRONGHORN 248-5XRLNB, OMB, FINAL SURVEY V0  | ABND VERT PRONGHORN 3-9 (GYRO), OMB, Design #1 V0            |
| EXIST HZ STATE PRONGHORN F-J-16HNB, OMB, FINAL SURVEY V0   | PRONGHORN K-5 FED 32N-20-04, OMB, SURFACE V0         | ABND VERT FURROW 1 (NOCSS), OMB, Design #1 V0                |
| ABND VERT STATE 1 (NOCSS), OMB, Design #1 V0               | PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 2 V0      | EXIST HZ PRONGHORN P-T-17HNB, OMB, FINAL SURVEY V0           |
| PH FENRIR F16 08N-20-01E, OMB, PROPOSAL 1 V0               | PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 1 V0      | EXIST HZ PRONGHORN P-T-17HNB, STK 1, STK 1 V0                |
| EXIST HZ PRONGHORN 1-76XRLNB, OMB, FINAL SURVEY V0         | PRONGHORN K-5 FED 32N-20-08, OMB, PROPOSAL 1 V0      | ABND VERT PRONGHORN 11-17, OMB, Design #1 V0                 |
| PRONGHORN K-5 FED 32N-20-08, OMB, PROPOSAL 1 V0            | EXIST HZ PRONGHORN 114-6HZ, OMB, FINAL SURVEY V0     | ABND VERT PRONGHORN 6-17 (GYRO), OMB, GYRO SURVEY V0         |
| PRONGHORN K-5 FED 32N-20-07, OMB, PROPOSAL 1 V0            | EXIST PRONGHORN K-0-11HNB, OMB, FINAL SURVEY V0      | EXIST HZ PRONGHORN 1144-17HNB, OMB, FINAL SURVEY V0          |
| EXIST HZ ROSENBERG 6-8-30768H, OMB, FINAL SURVEY V0        | EXIST HZ PRONGHORN P-T-17HNB, OMB, FINAL SURVEY V0   | EXIST HZ PRONGHORN 2124-17HNB, OMB, FINAL SURVEY V0          |
| EXIST HZ ZESTERLING 44-3H, OMB, FINAL SURVEY V0            | ABND VERT PRONGHORN 31-8, OMB, Design #1 V0          | EXIST HZ PRONGHORN 3134-17HZ, OMB, FINAL SURVEY V0           |
| PRONGHORN K-5 FED 32N-20-02, OMB, SURFACE V0               | ABND VERT PRONGHORN 31-8 (GYRO), OMB, GYRO SURVEY V0 | EXIST HZ PRONGHORN F-J-17HNC, OMB, FINAL SURVEY V0           |
| PRONGHORN K-5 FED 32N-20-02, OMB, PROPOSAL 2 V0            | ABND VERT PRONGHORN 31-8 (GYRO), OMB, Design #1 V0   | ABND VERT PRONGHORN 248-5XRLNB, STK 2, STK 2 V0              |
| PRONGHORN K-5 FED 32N-20-03, OMB, SURFACE V0               | EXIST HZ PRONGHORN 248-5XRLNB, OMB, Design #1 V0     |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation