

# **BONANZA CREEK ENERGY**

**WELD COUNTY**

**SEC 5-T5N-R61W**

**PRONGHORN K-5 FED 32N-20-05**

**OWB**

**PROPOSAL 1**

## **Anticollision Report**

**22 July, 2024**

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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>	7/22/2024		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	16,012.26	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 5-T5N-R61W						
ABND VERT BOWMAN 32-1 - OWB - Design #1	6,606.88	6,018.00	2,448.00	2,300.61	16.609	CC, ES
ABND VERT BOWMAN 32-1 - OWB - Design #1	7,100.00	6,018.00	2,497.17	2,343.90	16.292	SF
ABND VERT FURROW 1 - OWB - Design #1	13,158.06	6,093.00	1,119.88	864.15	4.379	CC, ES
ABND VERT FURROW 1 - OWB - Design #1	13,200.00	6,093.00	1,120.67	864.20	4.370	SF
ABND VERT PRONGHORN 32-5 - OWB - GYRO	409.40	366.46	1,752.05	1,749.59	710.230	CC, ES
ABND VERT PRONGHORN 32-5 - OWB - GYRO	5,600.00	5,400.00	1,952.08	1,913.30	50.345	SF
ABND VERT PRONGHORN 41-6 - OWB - Design #1	5,626.68	5,544.83	3,810.57	3,679.17	29.001	CC
ABND VERT PRONGHORN 41-6 - OWB - Design #1	5,700.00	5,615.64	3,811.37	3,678.26	28.633	ES
ABND VERT PRONGHORN 41-6 - OWB - Design #1	6,400.00	6,006.79	3,920.54	3,775.26	26.986	SF
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	6,562.28	10,624.00	2,953.46	2,904.50	60.316	CC
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	6,600.00	10,624.00	2,953.70	2,904.24	59.717	ES
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	9,100.00	10,624.00	3,893.97	3,762.76	29.677	SF
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	5,687.79	5,575.00	2,634.17	2,595.12	67.456	CC
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	5,800.00	5,762.00	2,634.66	2,594.51	65.620	ES
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	7,300.00	5,669.00	3,087.14	3,035.36	59.616	SF
EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL S	5,820.78	10,762.00	2,843.35	2,741.43	27.899	CC, ES
EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL S	5,900.00	10,762.00	2,845.44	2,743.44	27.896	SF
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	5,872.85	16,154.00	1,237.09	1,057.95	6.906	CC, ES, SF
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	5,909.42	16,242.00	3,139.37	2,940.00	15.747	CC, ES
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	6,000.00	16,242.00	3,142.06	2,942.02	15.707	SF
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	5,874.65	16,091.00	1,926.08	1,733.33	9.992	CC, ES
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	5,900.00	16,091.00	1,926.43	1,733.64	9.992	SF
EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL S	1,355.90	1,341.43	127.10	118.49	14.758	CC, ES
EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL S	5,600.00	5,625.52	479.46	440.36	12.263	SF
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	5,937.24	16,045.00	4,443.27	4,246.43	22.573	CC, ES
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	6,100.00	16,045.00	4,449.70	4,252.15	22.523	SF
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	11,700.00	10,650.00	4,083.26	3,891.80	21.328	CC
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	11,800.00	10,650.00	4,084.47	3,891.19	21.133	ES
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	16,013.13	6,361.00	4,175.47	3,970.86	20.407	SF
EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL	13,622.09	8,782.57	3,584.78	3,392.24	18.618	CC
EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL	16,013.13	6,008.00	3,594.62	3,391.32	17.681	ES, SF
PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL	100.00	100.00	60.11	59.57	111.793	CC
PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL	300.00	299.50	60.80	58.84	30.913	ES
PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL	13,000.00	13,152.35	2,642.95	2,385.16	10.253	SF
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	260.20	261.22	43.94	42.46	29.559	CC
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	300.00	300.44	44.21	42.44	25.003	ES
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	16,013.13	16,318.96	1,724.67	1,357.07	4.692	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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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						
PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL	600.00	599.07	27.26	23.36	6.984	CC, ES
PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL	16,013.13	16,161.74	1,149.77	782.26	3.129	SF
PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL	885.95	885.84	5.95	0.05	1.009	Level 2, CC
PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL	900.00	899.88	5.96	-0.04	0.994	Level 1, ES, SF
PRONGHORN K-5 FED 32N-20-06 - OWB - PROPOSAL	394.50	394.65	13.40	10.76	5.066	CC
PRONGHORN K-5 FED 32N-20-06 - OWB - PROPOSAL	400.00	400.14	13.41	10.72	4.994	ES
PRONGHORN K-5 FED 32N-20-06 - OWB - PROPOSAL	16,013.13	16,022.79	574.85	207.24	1.564	SF
PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL	290.81	290.95	29.19	27.28	15.330	CC
PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL	300.00	300.12	29.19	27.22	14.820	ES
PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL	16,013.13	16,089.14	1,149.71	781.91	3.126	SF
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	293.46	293.60	44.33	42.41	23.061	CC
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	300.00	300.13	44.33	42.36	22.512	ES
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	16,013.13	16,213.18	1,724.56	1,356.54	4.686	SF

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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.00	100.00	35.00	35.00	0.27	0.42	-70.37	935.33	-2,622.42	2,784.23	2,783.55	0.69	4,045.489		
200.00	200.00	135.00	135.00	0.63	2.00	-70.37	935.33	-2,622.42	2,784.23	2,781.61	2.63	1,059.883		
300.00	300.00	235.00	235.00	0.99	4.22	-70.37	935.33	-2,622.42	2,784.23	2,779.03	5.20	535.318		
400.00	400.00	335.00	335.00	1.34	6.28	-70.37	935.33	-2,622.42	2,784.23	2,776.61	7.63	365.134		
500.00	499.98	434.98	434.98	1.70	8.32	-25.99	935.33	-2,622.42	2,782.66	2,772.65	10.02	277.742		
600.00	599.88	534.88	534.88	2.06	10.34	-26.04	935.33	-2,622.42	2,778.75	2,766.35	12.40	224.083		
700.00	699.78	634.78	634.78	2.42	12.36	-26.08	935.33	-2,622.42	2,774.71	2,759.94	14.78	187.788		
800.00	799.68	734.68	734.68	2.78	14.38	-26.12	935.33	-2,622.42	2,770.67	2,753.53	17.15	161.564		
900.00	899.58	834.58	834.58	3.14	16.39	-26.16	935.33	-2,622.42	2,766.64	2,747.12	19.52	141.724		
1,000.00	999.48	934.48	934.48	3.50	18.41	-26.20	935.33	-2,622.42	2,762.60	2,740.71	21.89	126.188		
1,100.00	1,099.38	1,034.38	1,034.38	3.87	20.42	-26.24	935.33	-2,622.42	2,758.57	2,734.30	24.26	113.691		
1,200.00	1,199.28	1,134.28	1,134.28	4.23	22.43	-26.29	935.33	-2,622.42	2,754.53	2,727.90	26.63	103.421		
1,300.00	1,299.18	1,234.18	1,234.18	4.59	24.44	-26.33	935.33	-2,622.42	2,750.50	2,721.50	29.00	94.830		
1,400.00	1,399.08	1,334.08	1,334.08	4.96	26.45	-26.37	935.33	-2,622.42	2,746.47	2,715.10	31.37	87.538		
1,500.00	1,498.97	1,433.97	1,433.97	5.32	28.46	-26.41	935.33	-2,622.42	2,742.44	2,708.70	33.74	81.270		
1,600.00	1,598.87	1,533.87	1,533.87	5.69	30.47	-26.45	935.33	-2,622.42	2,738.41	2,702.30	36.11	75.826		
1,700.00	1,698.77	1,633.77	1,633.77	6.05	32.49	-26.49	935.33	-2,622.42	2,734.39	2,695.90	38.48	71.052		
1,800.00	1,798.67	1,733.67	1,733.67	6.42	34.50	-26.54	935.33	-2,622.42	2,730.36	2,689.51	40.85	66.833		
1,900.00	1,898.57	1,833.57	1,833.57	6.78	36.51	-26.58	935.33	-2,622.42	2,726.34	2,683.12	43.22	63.076		
2,000.00	1,998.47	1,933.47	1,933.47	7.15	38.51	-26.62	935.33	-2,622.42	2,722.32	2,676.73	45.59	59.709		
2,100.00	2,098.37	2,033.37	2,033.37	7.51	40.52	-26.66	935.33	-2,622.42	2,718.30	2,670.34	47.96	56.676		
2,200.00	2,198.27	2,133.27	2,133.27	7.87	42.53	-26.71	935.33	-2,622.42	2,714.28	2,663.95	50.33	53.928		
2,300.00	2,298.17	2,233.17	2,233.17	8.24	44.54	-26.75	935.33	-2,622.42	2,710.26	2,657.56	52.70	51.427		
2,400.00	2,398.06	2,333.06	2,333.06	8.60	46.55	-26.79	935.33	-2,622.42	2,706.25	2,651.18	55.07	49.141		
2,500.00	2,497.96	2,432.96	2,432.96	8.97	48.56	-26.83	935.33	-2,622.42	2,702.23	2,644.79	57.44	47.044		
2,600.00	2,597.86	2,532.86	2,532.86	9.33	50.57	-26.88	935.33	-2,622.42	2,698.22	2,638.41	59.81	45.114		
2,700.00	2,697.76	2,632.76	2,632.76	9.70	52.58	-26.92	935.33	-2,622.42	2,694.21	2,632.03	62.18	43.330		
2,800.00	2,797.66	2,732.66	2,732.66	10.06	54.59	-26.96	935.33	-2,622.42	2,690.20	2,625.65	64.55	41.678		
2,900.00	2,897.56	2,832.56	2,832.56	10.43	56.60	-27.01	935.33	-2,622.42	2,686.19	2,619.28	66.92	40.142		
3,000.00	2,997.46	2,932.46	2,932.46	10.79	58.61	-27.05	935.33	-2,622.42	2,682.19	2,612.90	69.29	38.711		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
3,100.00	3,097.36	3,032.36	3,032.36	11.16	60.62	-27.09	935.33	-2,622.42	2,678.18	2,606.53	71.66	37.376		
3,200.00	3,197.25	3,132.25	3,132.25	11.52	62.63	-27.14	935.33	-2,622.42	2,674.18	2,600.15	74.03	36.125		
3,300.00	3,297.15	3,232.15	3,232.15	11.89	64.64	-27.18	935.33	-2,622.42	2,670.18	2,593.78	76.39	34.952		
3,400.00	3,397.05	3,332.05	3,332.05	12.25	66.65	-27.23	935.33	-2,622.42	2,666.18	2,587.41	78.76	33.850		
3,500.00	3,496.95	3,431.95	3,431.95	12.62	68.66	-27.27	935.33	-2,622.42	2,662.18	2,581.05	81.13	32.813		
3,600.00	3,596.85	3,531.85	3,531.85	12.98	70.67	-27.32	935.33	-2,622.42	2,658.18	2,574.68	83.50	31.834		
3,700.00	3,696.75	3,631.75	3,631.75	13.35	72.67	-27.36	935.33	-2,622.42	2,654.19	2,568.32	85.87	30.909		
3,800.00	3,796.65	3,731.65	3,731.65	13.72	74.68	-27.40	935.33	-2,622.42	2,650.19	2,561.95	88.24	30.034		
3,900.00	3,896.55	3,831.55	3,831.55	14.08	76.69	-27.45	935.33	-2,622.42	2,646.20	2,555.59	90.61	29.204		
4,000.00	3,996.45	3,931.45	3,931.45	14.45	78.70	-27.49	935.33	-2,622.42	2,642.21	2,549.23	92.98	28.417		
4,100.00	4,096.34	4,031.34	4,031.34	14.81	80.71	-27.54	935.33	-2,622.42	2,638.22	2,542.87	95.35	27.669		
4,200.00	4,196.24	4,131.24	4,131.24	15.18	82.72	-27.58	935.33	-2,622.42	2,634.23	2,536.52	97.72	26.958		
4,300.00	4,296.14	4,231.14	4,231.14	15.54	84.73	-27.63	935.33	-2,622.42	2,630.25	2,530.16	100.09	26.280		
4,400.00	4,396.04	4,331.04	4,331.04	15.91	86.74	-27.68	935.33	-2,622.42	2,626.27	2,523.81	102.46	25.633		
4,500.00	4,495.94	4,430.94	4,430.94	16.27	88.75	-27.72	935.33	-2,622.42	2,622.28	2,517.46	104.83	25.016		
4,600.00	4,595.84	4,530.84	4,530.84	16.64	90.76	-27.77	935.33	-2,622.42	2,618.30	2,511.11	107.20	24.426		
4,700.00	4,695.74	4,630.74	4,630.74	17.00	92.77	-27.81	935.33	-2,622.42	2,614.32	2,504.76	109.56	23.861		
4,800.00	4,795.64	4,730.64	4,730.64	17.37	94.77	-27.86	935.33	-2,622.42	2,610.35	2,498.41	111.93	23.320		
4,900.00	4,895.54	4,830.54	4,830.54	17.73	96.78	-27.90	935.33	-2,622.42	2,606.37	2,492.07	114.30	22.802		
5,000.00	4,995.43	4,930.43	4,930.43	18.10	98.79	-27.95	935.33	-2,622.42	2,602.40	2,485.72	116.67	22.305		
5,100.00	5,095.33	5,030.33	5,030.33	18.46	100.80	-28.00	935.33	-2,622.42	2,598.42	2,479.38	119.04	21.828		
5,200.00	5,195.23	5,130.23	5,130.23	18.83	102.81	-28.04	935.33	-2,622.42	2,594.45	2,473.04	121.41	21.369		
5,300.00	5,295.13	5,230.13	5,230.13	19.19	104.82	-28.09	935.33	-2,622.42	2,590.49	2,466.71	123.78	20.928		
5,400.00	5,395.03	5,330.03	5,330.03	19.56	106.83	-28.14	935.33	-2,622.42	2,586.52	2,460.37	126.15	20.504		
5,500.00	5,494.93	5,429.93	5,429.93	19.92	108.84	-28.18	935.33	-2,622.42	2,582.55	2,454.03	128.52	20.095		
5,600.00	5,594.86	5,529.86	5,529.86	20.29	110.84	-61.18	935.33	-2,622.42	2,577.47	2,446.59	130.89	19.692		
5,700.00	5,691.64	5,626.64	5,626.64	20.69	112.79	-69.00	935.33	-2,622.42	2,567.79	2,434.57	133.22	19.275		
5,800.00	5,783.21	5,718.21	5,718.21	21.10	114.64	-73.05	935.33	-2,622.42	2,553.91	2,418.45	135.46	18.853		
5,900.00	5,866.49	5,801.49	5,801.49	21.55	116.31	-76.63	935.33	-2,622.42	2,536.93	2,399.35	137.58	18.440		
6,000.00	5,938.95	5,873.95	5,873.95	22.06	117.77	-80.12	935.33	-2,622.42	2,518.24	2,378.71	139.53	18.048		
6,100.00	5,998.39	5,933.39	5,933.39	22.64	118.96	-83.42	935.33	-2,622.42	2,499.41	2,358.11	141.30	17.688		
6,200.00	6,043.00	5,978.00	5,978.00	23.31	119.86	-86.29	935.33	-2,622.42	2,482.01	2,339.14	142.87	17.372		
6,300.00	6,071.42	6,006.42	6,006.42	24.06	120.43	-88.49	935.33	-2,622.42	2,467.43	2,323.21	144.22	17.109		
6,400.00	6,082.79	6,017.79	6,017.79	24.89	120.66	-89.87	935.33	-2,622.42	2,456.73	2,311.42	145.31	16.906		
6,500.00	6,083.00	6,018.00	6,018.00	25.78	120.66	-90.00	935.33	-2,622.42	2,450.33	2,304.06	146.27	16.752		
6,600.00	6,083.00	6,018.00	6,018.00	26.77	120.66	-90.00	935.33	-2,622.42	2,448.01	2,300.69	147.31	16.618		
6,606.88	6,083.00	6,018.00	6,018.00	26.84	120.66	-90.00	935.33	-2,622.42	2,448.00	2,300.61	147.39	16.609	CC, ES	
6,700.00	6,083.00	6,018.00	6,018.00	27.83	120.66	-90.00	935.33	-2,622.42	2,449.77	2,301.34	148.43	16.504		
6,800.00	6,083.00	6,018.00	6,018.00	28.96	120.66	-90.00	935.33	-2,622.42	2,455.61	2,306.00	149.61	16.414		
6,900.00	6,083.00	6,018.00	6,018.00	30.15	120.66	-90.00	935.33	-2,622.42	2,465.49	2,314.67	150.82	16.348		
7,000.00	6,083.00	6,018.00	6,018.00	31.40	120.66	-90.00	935.33	-2,622.42	2,479.37	2,327.32	152.04	16.307		
7,100.00	6,083.00	6,018.00	6,018.00	32.70	120.66	-90.00	935.33	-2,622.42	2,497.17	2,343.90	153.27	16.292	SF	
7,200.00	6,083.00	6,018.00	6,018.00	34.04	120.66	-90.00	935.33	-2,622.42	2,518.83	2,364.33	154.50	16.304		
7,300.00	6,083.00	6,018.00	6,018.00	35.42	120.66	-90.00	935.33	-2,622.42	2,544.23	2,388.54	155.70	16.341		
7,400.00	6,083.00	6,018.00	6,018.00	36.83	120.66	-90.00	935.33	-2,622.42	2,573.28	2,416.41	156.87	16.404		
7,500.00	6,083.00	6,018.00	6,018.00	38.27	120.66	-90.00	935.33	-2,622.42	2,605.84	2,447.84	158.00	16.493		
7,600.00	6,083.00	6,018.00	6,018.00	39.74	120.66	-90.00	935.33	-2,622.42	2,641.78	2,482.69	159.09	16.606		
7,700.00	6,083.00	6,018.00	6,018.00	41.23	120.66	-90.00	935.33	-2,622.42	2,680.97	2,520.85	160.13	16.743		
7,800.00	6,083.00	6,018.00	6,018.00	42.75	120.66	-90.00	935.33	-2,622.42	2,723.28	2,562.16	161.12	16.903		
7,900.00	6,083.00	6,018.00	6,018.00	44.28	120.66	-90.00	935.33	-2,622.42	2,768.55	2,606.50	162.05	17.084		
8,000.00	6,083.00	6,018.00	6,018.00	45.83	120.66	-90.00	935.33	-2,622.42	2,816.65	2,653.71	162.94	17.287		
8,100.00	6,083.00	6,018.00	6,018.00	47.40	120.66	-90.00	935.33	-2,622.42	2,867.43	2,703.66	163.77	17.509		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
8,200.00	6,083.00	6,018.00	6,018.00	48.98	120.66	-90.00	935.33	-2,622.42	2,920.75	2,756.20	164.55	17.750		
8,300.00	6,083.00	6,018.00	6,018.00	50.57	120.66	-90.00	935.33	-2,622.42	2,976.47	2,811.19	165.28	18.009		
8,400.00	6,083.00	6,018.00	6,018.00	52.18	120.66	-90.00	935.33	-2,622.42	3,034.47	2,868.51	165.96	18.284		
8,500.00	6,083.00	6,018.00	6,018.00	53.79	120.66	-90.00	935.33	-2,622.42	3,094.61	2,928.02	166.59	18.576		
8,600.00	6,083.00	6,018.00	6,018.00	55.42	120.66	-90.00	935.33	-2,622.42	3,156.78	2,989.59	167.18	18.882		
8,700.00	6,083.00	6,018.00	6,018.00	57.05	120.66	-90.00	935.33	-2,622.42	3,220.85	3,053.12	167.73	19.202		
8,800.00	6,083.00	6,018.00	6,018.00	58.70	120.66	-90.00	935.33	-2,622.42	3,286.72	3,118.47	168.24	19.536		
8,900.00	6,083.00	6,018.00	6,018.00	60.35	120.66	-90.00	935.33	-2,622.42	3,354.27	3,185.56	168.71	19.881		
9,000.00	6,083.00	6,018.00	6,018.00	62.00	120.66	-90.00	935.33	-2,622.42	3,423.41	3,254.26	169.15	20.239		
9,100.00	6,083.00	6,018.00	6,018.00	63.66	120.66	-90.00	935.33	-2,622.42	3,494.05	3,324.49	169.56	20.607		
9,200.00	6,083.00	6,018.00	6,018.00	65.33	120.66	-90.00	935.33	-2,622.42	3,566.09	3,396.16	169.93	20.985		
9,300.00	6,083.00	6,018.00	6,018.00	67.01	120.66	-90.00	935.33	-2,622.42	3,639.45	3,469.17	170.28	21.373		
9,400.00	6,083.00	6,018.00	6,018.00	68.69	120.66	-90.00	935.33	-2,622.42	3,714.06	3,543.46	170.60	21.770		
9,500.00	6,083.00	6,018.00	6,018.00	70.37	120.66	-90.00	935.33	-2,622.42	3,789.84	3,618.94	170.90	22.176		
9,600.00	6,083.00	6,018.00	6,018.00	72.06	120.66	-90.00	935.33	-2,622.42	3,866.72	3,695.54	171.18	22.589		
9,700.00	6,083.00	6,018.00	6,018.00	73.75	120.66	-90.00	935.33	-2,622.42	3,944.63	3,773.20	171.43	23.010		
9,800.00	6,083.00	6,018.00	6,018.00	75.45	120.66	-90.00	935.33	-2,622.42	4,023.52	3,851.86	171.67	23.438		
9,900.00	6,083.00	6,018.00	6,018.00	77.15	120.66	-90.00	935.33	-2,622.42	4,103.34	3,931.45	171.89	23.872		
10,000.00	6,083.00	6,018.00	6,018.00	78.85	120.66	-90.00	935.33	-2,622.42	4,184.02	4,011.92	172.09	24.312		
10,100.00	6,083.00	6,018.00	6,018.00	80.56	120.66	-90.00	935.33	-2,622.42	4,265.52	4,093.23	172.28	24.759		
10,200.00	6,083.00	6,018.00	6,018.00	82.26	120.66	-90.00	935.33	-2,622.42	4,347.79	4,175.33	172.46	25.210		
10,300.00	6,083.00	6,018.00	6,018.00	83.98	120.66	-90.00	935.33	-2,622.42	4,430.79	4,258.16	172.62	25.667		
10,400.00	6,083.00	6,018.00	6,018.00	85.69	120.66	-90.00	935.33	-2,622.42	4,514.48	4,341.70	172.78	26.129		
10,500.00	6,083.00	6,018.00	6,018.00	87.41	120.66	-90.00	935.33	-2,622.42	4,598.82	4,425.90	172.92	26.595		
10,600.00	6,083.00	6,018.00	6,018.00	89.12	120.66	-90.00	935.33	-2,622.42	4,683.78	4,510.73	173.05	27.066		
10,700.00	6,083.00	6,018.00	6,018.00	90.85	120.66	-90.00	935.33	-2,622.42	4,769.32	4,596.14	173.17	27.541		
10,800.00	6,083.00	6,018.00	6,018.00	92.57	120.66	-90.00	935.33	-2,622.42	4,855.41	4,682.12	173.29	28.019		
10,900.00	6,083.00	6,018.00	6,018.00	94.29	120.66	-90.00	935.33	-2,622.42	4,942.03	4,768.63	173.40	28.501		
11,000.00	6,083.00	6,018.00	6,018.00	96.02	120.66	-90.00	935.33	-2,622.42	5,029.14	4,855.64	173.50	28.987		
11,100.00	6,083.00	6,018.00	6,018.00	97.75	120.66	-90.00	935.33	-2,622.42	5,116.73	4,943.13	173.59	29.475		
11,200.00	6,083.00	6,018.00	6,018.00	99.48	120.66	-90.00	935.33	-2,622.42	5,204.76	5,031.08	173.68	29.967		
11,300.00	6,083.00	6,018.00	6,018.00	101.21	120.66	-90.00	935.33	-2,622.42	5,293.22	5,119.45	173.77	30.462		
11,400.00	6,083.00	6,018.00	6,018.00	102.94	120.66	-90.00	935.33	-2,622.42	5,382.08	5,208.23	173.84	30.959		
11,500.00	6,083.00	6,018.00	6,018.00	104.67	120.66	-90.00	935.33	-2,622.42	5,471.32	5,297.40	173.92	31.459		
11,600.00	6,083.00	6,018.00	6,018.00	106.41	120.66	-90.00	935.33	-2,622.42	5,560.94	5,386.95	173.99	31.961		
11,700.00	6,083.00	6,018.00	6,018.00	108.15	120.66	-90.00	935.33	-2,622.42	5,650.90	5,476.84	174.06	32.466		
11,800.00	6,083.00	6,018.00	6,018.00	109.88	120.66	-90.00	935.33	-2,622.42	5,741.19	5,567.07	174.12	32.973		
11,900.00	6,083.00	6,018.00	6,018.00	111.62	120.66	-90.00	935.33	-2,622.42	5,831.80	5,657.62	174.18	33.482		
12,000.00	6,083.00	6,018.00	6,018.00	113.36	120.66	-90.00	935.33	-2,622.42	5,922.71	5,748.48	174.24	33.993		
12,100.00	6,083.00	6,018.00	6,018.00	115.10	120.66	-90.00	935.33	-2,622.42	6,013.91	5,839.62	174.29	34.505		
12,200.00	6,083.00	6,018.00	6,018.00	116.85	120.66	-90.00	935.33	-2,622.42	6,105.39	5,931.05	174.34	35.020		
12,300.00	6,083.00	6,018.00	6,018.00	118.59	120.66	-90.00	935.33	-2,622.42	6,197.13	6,022.74	174.39	35.536		
12,400.00	6,083.00	6,018.00	6,018.00	120.33	120.66	-90.00	935.33	-2,622.42	6,289.12	6,114.68	174.44	36.054		
12,500.00	6,083.00	6,018.00	6,018.00	122.08	120.66	-90.00	935.33	-2,622.42	6,381.35	6,206.87	174.48	36.573		
12,600.00	6,083.00	6,018.00	6,018.00	123.82	120.66	-90.00	935.33	-2,622.42	6,473.81	6,299.29	174.53	37.093		
12,700.00	6,083.00	6,018.00	6,018.00	125.57	120.66	-90.00	935.33	-2,622.42	6,566.50	6,391.93	174.57	37.615		
12,800.00	6,083.00	6,018.00	6,018.00	127.32	120.66	-90.00	935.33	-2,622.42	6,659.39	6,484.78	174.61	38.138		
12,900.00	6,083.00	6,018.00	6,018.00	129.07	120.66	-90.00	935.33	-2,622.42	6,752.49	6,577.84	174.65	38.663		
13,000.00	6,083.00	6,018.00	6,018.00	130.81	120.66	-90.00	935.33	-2,622.42	6,845.78	6,671.09	174.69	39.188		
13,100.00	6,083.00	6,018.00	6,018.00	132.56	120.66	-90.00	935.33	-2,622.42	6,939.26	6,764.54	174.73	39.715		
13,200.00	6,083.00	6,018.00	6,018.00	134.31	120.66	-90.00	935.33	-2,622.42	7,032.92	6,858.16	174.76	40.243		
13,300.00	6,083.00	6,018.00	6,018.00	136.06	120.66	-90.00	935.33	-2,622.42	7,126.75	6,951.96	174.80	40.771		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
13,400.00	6,083.00	6,018.00	6,018.00	137.81	120.66	-90.00	935.33	-2,622.42	7,220.75	7,045.92	174.83	41.301		
13,500.00	6,083.00	6,018.00	6,018.00	139.57	120.66	-90.00	935.33	-2,622.42	7,314.91	7,140.04	174.87	41.831		
13,600.00	6,083.00	6,018.00	6,018.00	141.32	120.66	-90.00	935.33	-2,622.42	7,409.22	7,234.32	174.90	42.362		
13,700.00	6,083.00	6,018.00	6,018.00	143.07	120.66	-90.00	935.33	-2,622.42	7,503.67	7,328.74	174.93	42.894		
13,800.00	6,083.00	6,018.00	6,018.00	144.82	120.66	-90.00	935.33	-2,622.42	7,598.27	7,423.31	174.97	43.427		
13,900.00	6,083.00	6,018.00	6,018.00	146.58	120.66	-90.00	935.33	-2,622.42	7,693.01	7,518.01	175.00	43.960		
14,000.00	6,083.00	6,018.00	6,018.00	148.33	120.66	-90.00	935.33	-2,622.42	7,787.88	7,612.84	175.03	44.494		
14,100.00	6,083.00	6,018.00	6,018.00	150.09	120.66	-90.00	935.33	-2,622.42	7,882.87	7,707.81	175.06	45.029		
14,200.00	6,083.00	6,018.00	6,018.00	151.84	120.66	-90.00	935.33	-2,622.42	7,977.99	7,802.89	175.09	45.564		
14,300.00	6,083.00	6,018.00	6,018.00	153.60	120.66	-90.00	935.33	-2,622.42	8,073.22	7,898.09	175.12	46.100		
14,400.00	6,083.00	6,018.00	6,018.00	155.35	120.66	-90.00	935.33	-2,622.42	8,168.57	7,993.41	175.16	46.636		
14,500.00	6,083.00	6,018.00	6,018.00	157.11	120.66	-90.00	935.33	-2,622.42	8,264.03	8,088.84	175.19	47.173		
14,600.00	6,083.00	6,018.00	6,018.00	158.87	120.66	-90.00	935.33	-2,622.42	8,359.59	8,184.37	175.22	47.710		
14,700.00	6,083.00	6,018.00	6,018.00	160.62	120.66	-90.00	935.33	-2,622.42	8,455.26	8,280.01	175.25	48.247		
14,800.00	6,083.00	6,018.00	6,018.00	162.38	120.66	-90.00	935.33	-2,622.42	8,551.02	8,375.75	175.28	48.785		
14,900.00	6,083.00	6,018.00	6,018.00	164.14	120.66	-90.00	935.33	-2,622.42	8,646.89	8,471.58	175.31	49.324		
15,000.00	6,083.00	6,018.00	6,018.00	165.90	120.66	-90.00	935.33	-2,622.42	8,742.84	8,567.50	175.34	49.862		
15,100.00	6,083.00	6,018.00	6,018.00	167.66	120.66	-90.00	935.33	-2,622.42	8,838.88	8,663.51	175.37	50.401		
15,200.00	6,083.00	6,018.00	6,018.00	169.42	120.66	-90.00	935.33	-2,622.42	8,935.02	8,759.61	175.40	50.940		
15,300.00	6,083.00	6,018.00	6,018.00	171.17	120.66	-90.00	935.33	-2,622.42	9,031.23	8,855.80	175.43	51.480		
15,400.00	6,083.00	6,018.00	6,018.00	172.93	120.66	-90.00	935.33	-2,622.42	9,127.53	8,952.06	175.46	52.020		
15,500.00	6,083.00	6,018.00	6,018.00	174.69	120.66	-90.00	935.33	-2,622.42	9,223.90	9,048.41	175.49	52.560		
15,600.00	6,083.00	6,018.00	6,018.00	176.45	120.66	-90.00	935.33	-2,622.42	9,320.35	9,144.83	175.53	53.100		
15,700.00	6,083.00	6,018.00	6,018.00	178.21	120.66	-90.00	935.33	-2,622.42	9,416.88	9,241.32	175.56	53.640		
15,800.00	6,083.00	6,018.00	6,018.00	179.98	120.66	-90.00	935.33	-2,622.42	9,513.48	9,337.89	175.59	54.180		
15,900.00	6,083.00	6,018.00	6,018.00	181.74	120.66	-90.00	935.33	-2,622.42	9,610.14	9,434.52	175.62	54.721		
16,000.00	6,083.00	6,018.00	6,018.00	183.50	120.66	-90.00	935.33	-2,622.42	9,706.88	9,531.23	175.65	55.262		
16,013.13	6,083.00	6,018.00	6,018.00	183.73	120.66	-90.00	935.33	-2,622.42	9,719.59	9,542.01	177.58	54.733		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 FURROW 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		
0.00	0.00	10.00	10.00	0.00	0.12	-9.65	7,481.96	-1,272.04	7,589.32					
100.00	100.00	110.00	110.00	0.27	1.43	-9.65	7,481.96	-1,272.04	7,589.32	7,587.63	1.70	4,474.728		
200.00	200.00	210.00	210.00	0.63	3.70	-9.65	7,481.96	-1,272.04	7,589.32	7,585.00	4.32	1,755.556		
300.00	300.00	310.00	310.00	0.99	5.77	-9.65	7,481.96	-1,272.04	7,589.32	7,582.57	6.76	1,123.311		
400.00	400.00	410.00	410.00	1.34	7.81	-9.65	7,481.96	-1,272.04	7,589.32	7,580.17	9.16	828.931		
500.00	499.98	509.98	509.98	1.70	9.84	34.78	7,481.96	-1,272.04	7,587.89	7,576.35	11.54	657.495		
600.00	599.88	609.88	609.88	2.06	11.86	34.81	7,481.96	-1,272.04	7,584.32	7,570.40	13.92	544.880		
700.00	699.78	709.78	709.78	2.42	13.88	34.83	7,481.96	-1,272.04	7,580.62	7,564.33	16.29	465.241		
800.00	799.68	809.68	809.68	2.78	15.89	34.85	7,481.96	-1,272.04	7,576.93	7,558.26	18.67	405.883		
900.00	899.58	909.58	909.58	3.14	17.91	34.87	7,481.96	-1,272.04	7,573.24	7,552.20	21.04	359.928		
1,000.00	999.48	1,009.48	1,009.48	3.50	19.92	34.89	7,481.96	-1,272.04	7,569.55	7,546.14	23.41	323.295		
1,100.00	1,099.38	1,109.38	1,109.38	3.87	21.93	34.91	7,481.96	-1,272.04	7,565.86	7,540.08	25.79	293.407		
1,200.00	1,199.28	1,209.28	1,209.28	4.23	23.94	34.93	7,481.96	-1,272.04	7,562.17	7,534.02	28.16	268.558		
1,300.00	1,299.18	1,309.18	1,309.18	4.59	25.95	34.95	7,481.96	-1,272.04	7,558.49	7,527.96	30.53	247.572		
1,400.00	1,399.08	1,409.08	1,409.08	4.96	27.96	34.97	7,481.96	-1,272.04	7,554.80	7,521.90	32.90	229.612		
1,500.00	1,498.97	1,508.97	1,508.97	5.32	29.97	34.99	7,481.96	-1,272.04	7,551.11	7,515.84	35.27	214.069		
1,600.00	1,598.87	1,608.87	1,608.87	5.69	31.98	35.01	7,481.96	-1,272.04	7,547.43	7,509.78	37.65	200.485		
1,700.00	1,698.77	1,708.77	1,708.77	6.05	33.99	35.03	7,481.96	-1,272.04	7,543.75	7,503.73	40.02	188.511		
1,800.00	1,798.67	1,808.67	1,808.67	6.42	36.00	35.05	7,481.96	-1,272.04	7,540.06	7,497.67	42.39	177.877		
1,900.00	1,898.57	1,908.57	1,908.57	6.78	38.01	35.07	7,481.96	-1,272.04	7,536.38	7,491.62	44.76	168.371		
2,000.00	1,998.47	2,008.47	2,008.47	7.15	40.02	35.09	7,481.96	-1,272.04	7,532.70	7,485.57	47.13	159.821		
2,100.00	2,098.37	2,108.37	2,108.37	7.51	42.03	35.11	7,481.96	-1,272.04	7,529.02	7,479.52	49.50	152.090		
2,200.00	2,198.27	2,208.27	2,208.27	7.87	44.04	35.13	7,481.96	-1,272.04	7,525.34	7,473.46	51.88	145.067		
2,300.00	2,298.17	2,308.17	2,308.17	8.24	46.05	35.15	7,481.96	-1,272.04	7,521.66	7,467.41	54.25	138.657		
2,400.00	2,398.06	2,408.06	2,408.06	8.60	48.06	35.17	7,481.96	-1,272.04	7,517.98	7,461.37	56.62	132.785		
2,500.00	2,497.96	2,507.96	2,507.96	8.97	50.07	35.19	7,481.96	-1,272.04	7,514.31	7,455.32	58.99	127.384		
2,600.00	2,597.86	2,607.86	2,607.86	9.33	52.08	35.21	7,481.96	-1,272.04	7,510.63	7,449.27	61.36	122.402		
2,700.00	2,697.76	2,707.76	2,707.76	9.70	54.09	35.23	7,481.96	-1,272.04	7,506.96	7,443.22	63.73	117.790		
2,800.00	2,797.66	2,807.66	2,807.66	10.06	56.10	35.24	7,481.96	-1,272.04	7,503.28	7,437.18	66.10	113.509		
2,900.00	2,897.56	2,907.56	2,907.56	10.43	58.11	35.26	7,481.96	-1,272.04	7,499.61	7,431.13	68.47	109.524		
3,000.00	2,997.46	3,007.46	3,007.46	10.79	60.12	35.28	7,481.96	-1,272.04	7,495.94	7,425.09	70.85	105.806		
3,100.00	3,097.36	3,107.36	3,107.36	11.16	62.13	35.30	7,481.96	-1,272.04	7,492.27	7,419.05	73.22	102.329		
3,200.00	3,197.25	3,207.25	3,207.25	11.52	64.14	35.32	7,481.96	-1,272.04	7,488.59	7,413.01	75.59	99.071		
3,300.00	3,297.15	3,307.15	3,307.15	11.89	66.15	35.34	7,481.96	-1,272.04	7,484.93	7,406.97	77.96	96.010		
3,400.00	3,397.05	3,407.05	3,407.05	12.25	68.16	35.36	7,481.96	-1,272.04	7,481.26	7,400.93	80.33	93.130		
3,500.00	3,496.95	3,506.95	3,506.95	12.62	70.16	35.38	7,481.96	-1,272.04	7,477.59	7,394.89	82.70	90.416		
3,600.00	3,596.85	3,606.85	3,606.85	12.98	72.17	35.40	7,481.96	-1,272.04	7,473.92	7,388.85	85.07	87.853		
3,700.00	3,696.75	3,706.75	3,706.75	13.35	74.18	35.42	7,481.96	-1,272.04	7,470.26	7,382.81	87.44	85.428		
3,800.00	3,796.65	3,806.65	3,806.65	13.72	76.19	35.44	7,481.96	-1,272.04	7,466.59	7,376.77	89.82	83.132		
3,900.00	3,896.55	3,906.55	3,906.55	14.08	78.20	35.46	7,481.96	-1,272.04	7,462.93	7,370.74	92.19	80.954		
4,000.00	3,996.45	4,006.45	4,006.45	14.45	80.21	35.48	7,481.96	-1,272.04	7,459.26	7,364.70	94.56	78.885		
4,100.00	4,096.34	4,106.34	4,106.34	14.81	82.22	35.50	7,481.96	-1,272.04	7,455.60	7,358.67	96.93	76.918		
4,200.00	4,196.24	4,206.24	4,206.24	15.18	84.23	35.52	7,481.96	-1,272.04	7,451.94	7,352.64	99.30	75.044		
4,300.00	4,296.14	4,306.14	4,306.14	15.54	86.24	35.54	7,481.96	-1,272.04	7,448.28	7,346.61	101.67	73.258		
4,400.00	4,396.04	4,406.04	4,406.04	15.91	88.25	35.56	7,481.96	-1,272.04	7,444.62	7,340.58	104.04	71.553		
4,500.00	4,495.94	4,505.94	4,505.94	16.27	90.26	35.58	7,481.96	-1,272.04	7,440.96	7,334.55	106.41	69.924		
4,600.00	4,595.84	4,605.84	4,605.84	16.64	92.26	35.60	7,481.96	-1,272.04	7,437.30	7,328.52	108.79	68.366		
4,700.00	4,695.74	4,705.74	4,705.74	17.00	94.27	35.62	7,481.96	-1,272.04	7,433.65	7,322.49	111.16	66.875		
4,800.00	4,795.64	4,805.64	4,805.64	17.37	96.28	35.64	7,481.96	-1,272.04	7,429.99	7,316.46	113.53	65.446		
4,900.00	4,895.54	4,905.54	4,905.54	17.73	98.29	35.67	7,481.96	-1,272.04	7,426.34	7,310.44	115.90	64.075		
5,000.00	4,995.43	5,005.43	5,005.43	18.10	100.30	35.69	7,481.96	-1,272.04	7,422.68	7,304.41	118.27	62.760		
5,100.00	5,095.33	5,105.33	5,105.33	18.46	102.31	35.71	7,481.96	-1,272.04	7,419.03	7,298.39	120.64	61.496		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 FURROW 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		
5,200.00	5,195.23	5,205.23	5,205.23	18.83	104.32	35.73	7,481.96	-1,272.04	7,415.38	7,292.36	123.01	60.281		
5,300.00	5,295.13	5,305.13	5,305.13	19.19	106.33	35.75	7,481.96	-1,272.04	7,411.72	7,286.34	125.39	59.112		
5,400.00	5,395.03	5,405.03	5,405.03	19.56	108.34	35.77	7,481.96	-1,272.04	7,408.07	7,280.32	127.76	57.986		
5,500.00	5,494.93	5,504.93	5,504.93	19.92	110.35	35.79	7,481.96	-1,272.04	7,404.43	7,274.30	130.13	56.901		
5,600.00	5,594.56	5,604.56	5,604.56	20.29	112.35	3.20	7,481.96	-1,272.04	7,397.01	7,264.51	132.49	55.829		
5,700.00	5,691.64	5,701.64	5,701.64	20.69	114.30	-3.61	7,481.96	-1,272.04	7,373.57	7,238.77	134.80	54.699		
5,800.00	5,783.21	5,793.21	5,793.21	21.10	116.14	-6.28	7,481.96	-1,272.04	7,333.84	7,196.86	136.98	53.541		
5,900.00	5,866.49	5,876.49	5,876.49	21.55	117.82	-8.44	7,481.96	-1,272.04	7,279.03	7,140.09	138.94	52.388		
6,000.00	5,938.95	5,948.95	5,948.95	22.06	119.28	-11.04	7,481.96	-1,272.04	7,210.81	7,070.17	140.65	51.269		
6,100.00	5,998.39	6,008.39	6,008.39	22.64	120.47	-14.95	7,481.96	-1,272.04	7,131.27	6,989.24	142.03	50.210		
6,200.00	6,043.00	6,053.00	6,053.00	23.31	121.37	-22.03	7,481.96	-1,272.04	7,042.83	6,899.77	143.05	49.232		
6,300.00	6,071.42	6,081.42	6,081.42	24.06	121.94	-38.09	7,481.96	-1,272.04	6,948.18	6,804.48	143.70	48.353		
6,400.00	6,082.79	6,092.79	6,092.79	24.89	122.17	-80.73	7,481.96	-1,272.04	6,850.22	6,706.26	143.95	47.587		
6,500.00	6,083.00	6,093.00	6,093.00	25.78	122.17	-90.00	7,481.96	-1,272.04	6,751.58	6,607.62	143.96	46.899		
6,600.00	6,083.00	6,093.00	6,093.00	26.77	122.17	-90.00	7,481.96	-1,272.04	6,652.99	6,509.02	143.97	46.211		
6,700.00	6,083.00	6,093.00	6,093.00	27.83	122.17	-90.00	7,481.96	-1,272.04	6,554.44	6,410.45	143.99	45.521		
6,800.00	6,083.00	6,093.00	6,093.00	28.96	122.17	-90.00	7,481.96	-1,272.04	6,455.93	6,311.92	144.01	44.830		
6,900.00	6,083.00	6,093.00	6,093.00	30.15	122.17	-90.00	7,481.96	-1,272.04	6,357.47	6,213.43	144.04	44.138		
7,000.00	6,083.00	6,093.00	6,093.00	31.40	122.17	-90.00	7,481.96	-1,272.04	6,259.06	6,114.98	144.07	43.443		
7,100.00	6,083.00	6,093.00	6,093.00	32.70	122.17	-90.00	7,481.96	-1,272.04	6,160.70	6,016.58	144.12	42.747		
7,200.00	6,083.00	6,093.00	6,093.00	34.04	122.17	-90.00	7,481.96	-1,272.04	6,062.39	5,918.21	144.17	42.049		
7,300.00	6,083.00	6,093.00	6,093.00	35.42	122.17	-90.00	7,481.96	-1,272.04	5,964.14	5,819.90	144.24	41.349		
7,400.00	6,083.00	6,093.00	6,093.00	36.83	122.17	-90.00	7,481.96	-1,272.04	5,865.95	5,721.63	144.31	40.647		
7,500.00	6,083.00	6,093.00	6,093.00	38.27	122.17	-90.00	7,481.96	-1,272.04	5,767.82	5,623.42	144.40	39.943		
7,600.00	6,083.00	6,093.00	6,093.00	39.74	122.17	-90.00	7,481.96	-1,272.04	5,669.76	5,525.26	144.50	39.238		
7,700.00	6,083.00	6,093.00	6,093.00	41.23	122.17	-90.00	7,481.96	-1,272.04	5,571.76	5,427.15	144.61	38.530		
7,800.00	6,083.00	6,093.00	6,093.00	42.75	122.17	-90.00	7,481.96	-1,272.04	5,473.84	5,329.10	144.73	37.820		
7,900.00	6,083.00	6,093.00	6,093.00	44.28	122.17	-90.00	7,481.96	-1,272.04	5,375.99	5,231.12	144.87	37.108		
8,000.00	6,083.00	6,093.00	6,093.00	45.83	122.17	-90.00	7,481.96	-1,272.04	5,278.23	5,133.20	145.03	36.394		
8,100.00	6,083.00	6,093.00	6,093.00	47.40	122.17	-90.00	7,481.96	-1,272.04	5,180.55	5,035.34	145.21	35.677		
8,200.00	6,083.00	6,093.00	6,093.00	48.98	122.17	-90.00	7,481.96	-1,272.04	5,082.96	4,937.56	145.40	34.959		
8,300.00	6,083.00	6,093.00	6,093.00	50.57	122.17	-90.00	7,481.96	-1,272.04	4,985.46	4,839.85	145.61	34.238		
8,400.00	6,083.00	6,093.00	6,093.00	52.18	122.17	-90.00	7,481.96	-1,272.04	4,888.07	4,742.22	145.85	33.515		
8,500.00	6,083.00	6,093.00	6,093.00	53.79	122.17	-90.00	7,481.96	-1,272.04	4,790.78	4,644.68	146.11	32.790		
8,600.00	6,083.00	6,093.00	6,093.00	55.42	122.17	-90.00	7,481.96	-1,272.04	4,693.61	4,547.22	146.39	32.063		
8,700.00	6,083.00	6,093.00	6,093.00	57.05	122.17	-90.00	7,481.96	-1,272.04	4,596.56	4,449.86	146.70	31.333		
8,800.00	6,083.00	6,093.00	6,093.00	58.70	122.17	-90.00	7,481.96	-1,272.04	4,499.64	4,352.60	147.04	30.602		
8,900.00	6,083.00	6,093.00	6,093.00	60.35	122.17	-90.00	7,481.96	-1,272.04	4,402.86	4,255.45	147.41	29.868		
9,000.00	6,083.00	6,093.00	6,093.00	62.00	122.17	-90.00	7,481.96	-1,272.04	4,306.22	4,158.41	147.82	29.132		
9,100.00	6,083.00	6,093.00	6,093.00	63.66	122.17	-90.00	7,481.96	-1,272.04	4,209.75	4,061.49	148.26	28.395		
9,200.00	6,083.00	6,093.00	6,093.00	65.33	122.17	-90.00	7,481.96	-1,272.04	4,113.43	3,964.69	148.74	27.655		
9,300.00	6,083.00	6,093.00	6,093.00	67.01	122.17	-90.00	7,481.96	-1,272.04	4,017.30	3,868.04	149.26	26.914		
9,400.00	6,083.00	6,093.00	6,093.00	68.69	122.17	-90.00	7,481.96	-1,272.04	3,921.37	3,771.54	149.83	26.172		
9,500.00	6,083.00	6,093.00	6,093.00	70.37	122.17	-90.00	7,481.96	-1,272.04	3,825.64	3,675.19	150.45	25.428		
9,600.00	6,083.00	6,093.00	6,093.00	72.06	122.17	-90.00	7,481.96	-1,272.04	3,730.13	3,579.02	151.12	24.684		
9,700.00	6,083.00	6,093.00	6,093.00	73.75	122.17	-90.00	7,481.96	-1,272.04	3,634.87	3,483.03	151.84	23.939		
9,800.00	6,083.00	6,093.00	6,093.00	75.45	122.17	-90.00	7,481.96	-1,272.04	3,539.87	3,387.24	152.63	23.193		
9,900.00	6,083.00	6,093.00	6,093.00	77.15	122.17	-90.00	7,481.96	-1,272.04	3,445.15	3,291.67	153.48	22.447		
10,000.00	6,083.00	6,093.00	6,093.00	78.85	122.17	-90.00	7,481.96	-1,272.04	3,350.74	3,196.34	154.40	21.702		
10,100.00	6,083.00	6,093.00	6,093.00	80.56	122.17	-90.00	7,481.96	-1,272.04	3,256.66	3,101.26	155.40	20.957		
10,200.00	6,083.00	6,093.00	6,093.00	82.26	122.17	-90.00	7,481.96	-1,272.04	3,162.95	3,006.47	156.48	20.213		
10,300.00	6,083.00	6,093.00	6,093.00	83.98	122.17	-90.00	7,481.96	-1,272.04	3,069.63	2,911.98	157.65	19.472		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 FURROW 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		
10,400.00	6,083.00	6,093.00	6,093.00	85.69	122.17	-90.00	7,481.96	-1,272.04	2,976.74	2,817.83	158.91	18.732		
10,500.00	6,083.00	6,093.00	6,093.00	87.41	122.17	-90.00	7,481.96	-1,272.04	2,884.34	2,724.06	160.28	17.996		
10,600.00	6,083.00	6,093.00	6,093.00	89.12	122.17	-90.00	7,481.96	-1,272.04	2,792.45	2,630.69	161.76	17.263		
10,700.00	6,083.00	6,093.00	6,093.00	90.85	122.17	-90.00	7,481.96	-1,272.04	2,701.14	2,537.78	163.36	16.535		
10,800.00	6,083.00	6,093.00	6,093.00	92.57	122.17	-90.00	7,481.96	-1,272.04	2,610.47	2,445.38	165.09	15.812		
10,900.00	6,083.00	6,093.00	6,093.00	94.29	122.17	-90.00	7,481.96	-1,272.04	2,520.51	2,353.54	166.97	15.096		
11,000.00	6,083.00	6,093.00	6,093.00	96.02	122.17	-90.00	7,481.96	-1,272.04	2,431.32	2,262.32	169.00	14.386		
11,100.00	6,083.00	6,093.00	6,093.00	97.75	122.17	-90.00	7,481.96	-1,272.04	2,343.02	2,171.82	171.20	13.686		
11,200.00	6,083.00	6,093.00	6,093.00	99.48	122.17	-90.00	7,481.96	-1,272.04	2,255.69	2,082.10	173.58	12.995		
11,300.00	6,083.00	6,093.00	6,093.00	101.21	122.17	-90.00	7,481.96	-1,272.04	2,169.45	1,993.29	176.16	12.315		
11,400.00	6,083.00	6,093.00	6,093.00	102.94	122.17	-90.00	7,481.96	-1,272.04	2,084.44	1,905.49	178.96	11.648		
11,500.00	6,083.00	6,093.00	6,093.00	104.67	122.17	-90.00	7,481.96	-1,272.04	2,000.82	1,818.84	181.98	10.995		
11,600.00	6,083.00	6,093.00	6,093.00	106.41	122.17	-90.00	7,481.96	-1,272.04	1,918.77	1,733.52	185.25	10.358		
11,700.00	6,083.00	6,093.00	6,093.00	108.15	122.17	-90.00	7,481.96	-1,272.04	1,838.49	1,649.71	188.78	9.739		
11,800.00	6,083.00	6,093.00	6,093.00	109.88	122.17	-90.00	7,481.96	-1,272.04	1,760.24	1,567.65	192.59	9.140		
11,900.00	6,083.00	6,093.00	6,093.00	111.62	122.17	-90.00	7,481.96	-1,272.04	1,684.29	1,487.60	196.69	8.563		
12,000.00	6,083.00	6,093.00	6,093.00	113.36	122.17	-90.00	7,481.96	-1,272.04	1,610.97	1,409.89	201.08	8.012		
12,100.00	6,083.00	6,093.00	6,093.00	115.10	122.17	-90.00	7,481.96	-1,272.04	1,540.65	1,334.89	205.77	7.487		
12,200.00	6,083.00	6,093.00	6,093.00	116.85	122.17	-90.00	7,481.96	-1,272.04	1,473.77	1,263.04	210.73	6.994		
12,300.00	6,083.00	6,093.00	6,093.00	118.59	122.17	-90.00	7,481.96	-1,272.04	1,410.81	1,194.87	215.94	6.533		
12,400.00	6,083.00	6,093.00	6,093.00	120.33	122.17	-90.00	7,481.96	-1,272.04	1,352.33	1,130.97	221.35	6.109		
12,500.00	6,083.00	6,093.00	6,093.00	122.08	122.17	-90.00	7,481.96	-1,272.04	1,298.91	1,072.03	226.88	5.725		
12,600.00	6,083.00	6,093.00	6,093.00	123.82	122.17	-90.00	7,481.96	-1,272.04	1,251.22	1,018.81	232.42	5.384		
12,700.00	6,083.00	6,093.00	6,093.00	125.57	122.17	-90.00	7,481.96	-1,272.04	1,209.94	972.12	237.82	5.088		
12,800.00	6,083.00	6,093.00	6,093.00	127.32	122.17	-90.00	7,481.96	-1,272.04	1,175.73	932.82	242.91	4.840		
12,900.00	6,083.00	6,093.00	6,093.00	129.07	122.17	-90.00	7,481.96	-1,272.04	1,149.23	901.74	247.49	4.643		
13,000.00	6,083.00	6,093.00	6,093.00	130.81	122.17	-90.00	7,481.96	-1,272.04	1,130.98	879.60	251.38	4.499		
13,100.00	6,083.00	6,093.00	6,093.00	132.56	122.17	-90.00	7,481.96	-1,272.04	1,121.39	866.97	254.42	4.408		
13,158.06	6,083.00	6,093.00	6,093.00	133.58	122.17	-90.00	7,481.96	-1,272.04	1,119.88	864.15	255.73	4.379 CC, ES		
13,200.00	6,083.00	6,093.00	6,093.00	134.31	122.17	-90.00	7,481.96	-1,272.04	1,120.67	864.20	256.46	4.370 SF		
13,300.00	6,083.00	6,093.00	6,093.00	136.06	122.17	-90.00	7,481.96	-1,272.04	1,128.84	871.37	257.47	4.384		
13,400.00	6,083.00	6,093.00	6,093.00	137.81	122.17	-90.00	7,481.96	-1,272.04	1,145.72	888.25	257.47	4.450		
13,500.00	6,083.00	6,093.00	6,093.00	139.57	122.17	-90.00	7,481.96	-1,272.04	1,170.92	914.39	256.54	4.564		
13,600.00	6,083.00	6,093.00	6,093.00	141.32	122.17	-90.00	7,481.96	-1,272.04	1,203.93	949.12	254.81	4.725		
13,700.00	6,083.00	6,093.00	6,093.00	143.07	122.17	-90.00	7,481.96	-1,272.04	1,244.12	991.68	252.44	4.928		
13,800.00	6,083.00	6,093.00	6,093.00	144.82	122.17	-90.00	7,481.96	-1,272.04	1,290.82	1,041.21	249.61	5.171		
13,900.00	6,083.00	6,093.00	6,093.00	146.58	122.17	-90.00	7,481.96	-1,272.04	1,343.36	1,096.90	246.46	5.451		
14,000.00	6,083.00	6,093.00	6,093.00	148.33	122.17	-90.00	7,481.96	-1,272.04	1,401.07	1,157.96	243.12	5.763		
14,100.00	6,083.00	6,093.00	6,093.00	150.09	122.17	-90.00	7,481.96	-1,272.04	1,463.35	1,223.66	239.69	6.105		
14,200.00	6,083.00	6,093.00	6,093.00	151.84	122.17	-90.00	7,481.96	-1,272.04	1,529.63	1,293.36	236.27	6.474		
14,300.00	6,083.00	6,093.00	6,093.00	153.60	122.17	-90.00	7,481.96	-1,272.04	1,599.43	1,366.52	232.91	6.867		
14,400.00	6,083.00	6,093.00	6,093.00	155.35	122.17	-90.00	7,481.96	-1,272.04	1,672.29	1,442.64	229.65	7.282		
14,500.00	6,083.00	6,093.00	6,093.00	157.11	122.17	-90.00	7,481.96	-1,272.04	1,747.84	1,521.32	226.52	7.716		
14,600.00	6,083.00	6,093.00	6,093.00	158.87	122.17	-90.00	7,481.96	-1,272.04	1,825.74	1,602.20	223.54	8.167		
14,700.00	6,083.00	6,093.00	6,093.00	160.62	122.17	-90.00	7,481.96	-1,272.04	1,905.71	1,685.00	220.71	8.635		
14,800.00	6,083.00	6,093.00	6,093.00	162.38	122.17	-90.00	7,481.96	-1,272.04	1,987.49	1,769.46	218.03	9.116		
14,900.00	6,083.00	6,093.00	6,093.00	164.14	122.17	-90.00	7,481.96	-1,272.04	2,070.87	1,855.37	215.50	9.609		
15,000.00	6,083.00	6,093.00	6,093.00	165.90	122.17	-90.00	7,481.96	-1,272.04	2,155.67	1,942.54	213.13	10.115		
15,100.00	6,083.00	6,093.00	6,093.00	167.66	122.17	-90.00	7,481.96	-1,272.04	2,241.71	2,030.82	210.89	10.630		
15,200.00	6,083.00	6,093.00	6,093.00	169.42	122.17	-90.00	7,481.96	-1,272.04	2,328.88	2,120.09	208.79	11.154		
15,300.00	6,083.00	6,093.00	6,093.00	171.17	122.17	-90.00	7,481.96	-1,272.04	2,417.04	2,210.21	206.82	11.687		
15,400.00	6,083.00	6,093.00	6,093.00	172.93	122.17	-90.00	7,481.96	-1,272.04	2,506.08	2,301.11	204.97	12.227		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 FURROW 1 - 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	6,083.00	6,093.00	6,093.00	174.69	122.17	-90.00	7,481.96	-1,272.04	2,595.93	2,392.70	203.23	12.773	
15,600.00	6,083.00	6,093.00	6,093.00	176.45	122.17	-90.00	7,481.96	-1,272.04	2,686.49	2,484.90	201.59	13.326	
15,700.00	6,083.00	6,093.00	6,093.00	178.21	122.17	-90.00	7,481.96	-1,272.04	2,777.70	2,577.65	200.05	13.885	
15,800.00	6,083.00	6,093.00	6,093.00	179.98	122.17	-90.00	7,481.96	-1,272.04	2,869.50	2,670.89	198.61	14.448	
15,900.00	6,083.00	6,093.00	6,093.00	181.74	122.17	-90.00	7,481.96	-1,272.04	2,961.82	2,764.58	197.24	15.016	
16,000.00	6,083.00	6,093.00	6,093.00	183.50	122.17	-90.00	7,481.96	-1,272.04	3,054.63	2,858.67	195.96	15.588	
16,013.13	6,083.00	6,093.00	6,093.00	183.73	122.17	-90.00	7,481.96	-1,272.04	3,066.86	2,869.71	197.14	15.557	

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-05
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4684.00usft
Reference Site:	SEC 5-T5N-R61W	MD Reference:	KB 25' @ 4684.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PRONGHORN K-5 FED 32N-20-05	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 - 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	54.95	54.95	0.27	0.09	-179.03	-1,751.95	-29.54	1,752.20	1,751.85	0.36	4,927.833	
200.00	200.00	153.36	153.36	0.63	0.34	-179.03	-1,751.82	-29.74	1,752.07	1,751.10	0.97	1,803.408	
206.40	206.40	159.40	159.40	0.65	0.37	-179.03	-1,751.82	-29.75	1,752.07	1,751.05	1.02	1,725.211	
300.00	300.00	252.44	252.44	0.99	0.69	-179.02	-1,751.89	-30.01	1,752.14	1,750.47	1.68	1,045.365	
400.00	400.00	356.63	356.63	1.34	1.06	-179.00	-1,751.79	-30.44	1,752.06	1,749.66	2.40	730.356	
409.40	409.40	366.46	366.46	1.38	1.09	-134.59	-1,751.77	-30.49	1,752.05	1,749.59	2.47	710.230 CC, ES	
500.00	499.98	460.22	460.21	1.70	1.42	-134.61	-1,751.45	-31.01	1,752.97	1,749.85	3.12	562.112	
600.00	599.88	556.94	556.93	2.06	1.76	-134.67	-1,751.06	-31.77	1,755.64	1,751.82	3.82	460.089	
700.00	699.78	652.43	652.42	2.42	2.09	-134.74	-1,750.98	-32.67	1,758.73	1,754.22	4.51	390.020	
800.00	799.68	752.67	752.65	2.78	2.45	-134.81	-1,751.01	-33.59	1,761.94	1,756.72	5.22	337.532	
900.00	899.58	853.73	853.71	3.14	2.80	-134.88	-1,750.95	-34.67	1,765.07	1,759.13	5.94	297.388	
1,000.00	999.48	952.27	952.24	3.50	3.15	-134.93	-1,750.89	-36.26	1,768.20	1,761.56	6.64	266.172	
1,100.00	1,099.38	1,055.03	1,054.98	3.87	3.51	-134.99	-1,750.88	-37.76	1,771.39	1,764.02	7.37	240.469	
1,200.00	1,199.28	1,160.50	1,160.43	4.23	3.88	-135.03	-1,750.51	-39.83	1,774.24	1,766.14	8.10	219.028	
1,300.00	1,299.18	1,260.70	1,260.61	4.59	4.23	-135.07	-1,749.99	-41.91	1,776.92	1,768.10	8.82	201.529	
1,400.00	1,399.08	1,363.08	1,362.95	4.96	4.60	-135.08	-1,749.46	-44.60	1,779.61	1,770.06	9.54	186.460	
1,500.00	1,498.97	1,466.03	1,465.84	5.32	4.97	-135.08	-1,748.69	-47.91	1,782.08	1,771.80	10.28	173.425	
1,600.00	1,598.87	1,570.00	1,569.77	5.69	5.34	-135.09	-1,747.76	-51.13	1,784.39	1,773.38	11.01	162.080	
1,700.00	1,698.77	1,668.33	1,668.05	6.05	5.69	-135.10	-1,746.74	-53.69	1,786.57	1,774.85	11.72	152.444	
1,800.00	1,798.67	1,759.01	1,758.71	6.42	6.01	-135.13	-1,746.09	-55.71	1,789.06	1,776.66	12.40	144.279	
1,900.00	1,898.57	1,855.19	1,854.87	6.78	6.34	-135.18	-1,745.90	-57.27	1,792.06	1,778.96	13.10	136.823	
2,000.00	1,998.47	1,961.96	1,961.64	7.15	6.71	-135.25	-1,745.54	-58.28	1,794.92	1,781.09	13.83	129.770	
2,100.00	2,098.37	2,064.26	2,063.94	7.51	7.07	-135.33	-1,744.82	-59.03	1,797.42	1,782.87	14.55	123.538	
2,200.00	2,198.27	2,170.15	2,169.82	7.87	7.43	-135.42	-1,743.98	-59.51	1,799.83	1,784.55	15.28	117.788	
2,300.00	2,298.17	2,267.01	2,266.68	8.24	7.77	-135.52	-1,742.96	-59.67	1,801.99	1,786.01	15.98	112.769	
2,400.00	2,398.06	2,369.96	2,369.62	8.60	8.13	-135.61	-1,742.10	-59.97	1,804.37	1,787.67	16.70	108.043	
2,500.00	2,497.96	2,467.09	2,466.74	8.97	8.47	-135.71	-1,741.08	-59.98	1,806.54	1,789.14	17.40	103.817	
2,600.00	2,597.86	2,564.44	2,564.09	9.33	8.81	-135.81	-1,740.35	-59.76	1,809.01	1,790.91	18.10	99.930	
2,700.00	2,697.76	2,661.47	2,661.12	9.70	9.14	-135.93	-1,739.68	-59.15	1,811.56	1,792.76	18.80	96.342	
2,800.00	2,797.66	2,756.02	2,755.66	10.06	9.47	-136.06	-1,739.26	-57.75	1,814.36	1,794.87	19.50	93.067	
2,900.00	2,897.56	2,847.61	2,847.24	10.43	9.79	-136.20	-1,739.18	-56.42	1,817.53	1,797.35	20.18	90.085	
3,000.00	2,997.46	2,941.55	2,941.18	10.79	10.12	-136.31	-1,739.57	-55.81	1,821.20	1,800.33	20.86	87.292	
3,100.00	3,097.36	3,037.24	3,036.87	11.16	10.45	-136.40	-1,740.09	-55.74	1,825.00	1,803.45	21.56	84.661	
3,200.00	3,197.25	3,126.28	3,125.89	11.52	10.76	-136.46	-1,741.02	-56.55	1,829.29	1,807.07	22.23	82.306	
3,300.00	3,297.15	3,215.00	3,214.59	11.89	11.07	-136.51	-1,742.50	-57.77	1,834.20	1,811.31	22.89	80.120	
3,400.00	3,397.05	3,306.15	3,305.70	12.25	11.39	-136.54	-1,744.52	-59.55	1,839.64	1,816.07	23.57	78.049	
3,500.00	3,496.95	3,400.00	3,399.48	12.62	11.72	-136.55	-1,747.00	-62.13	1,845.50	1,821.24	24.26	76.073	
3,600.00	3,596.85	3,480.01	3,479.40	12.98	12.00	-136.54	-1,749.68	-64.77	1,852.05	1,827.16	24.89	74.399	
3,700.00	3,696.75	3,570.51	3,569.77	13.35	12.33	-136.53	-1,753.47	-67.99	1,859.43	1,833.86	25.57	72.720	
3,800.00	3,796.65	3,662.25	3,661.34	13.72	12.66	-136.51	-1,757.66	-71.52	1,867.19	1,840.94	26.25	71.127	
3,900.00	3,896.55	3,764.35	3,763.24	14.08	13.04	-136.47	-1,762.62	-75.73	1,875.24	1,848.26	26.98	69.510	
4,000.00	3,996.45	3,876.84	3,875.54	14.45	13.44	-136.44	-1,767.50	-80.01	1,882.78	1,855.04	27.75	67.855	
4,100.00	4,096.34	3,986.35	3,984.93	14.81	13.83	-136.46	-1,771.54	-82.93	1,889.69	1,861.19	28.50	66.305	
4,200.00	4,196.24	4,087.54	4,086.03	15.18	14.19	-136.47	-1,774.97	-85.47	1,896.29	1,867.08	29.22	64.902	
4,300.00	4,296.14	4,202.97	4,201.38	15.54	14.60	-136.49	-1,778.44	-88.45	1,902.53	1,872.53	29.99	63.432	
4,400.00	4,396.04	4,320.08	4,318.41	15.91	15.01	-136.51	-1,780.91	-91.43	1,907.85	1,877.08	30.77	61.996	
4,500.00	4,495.94	4,437.71	4,436.02	16.27	15.42	-136.55	-1,782.28	-93.76	1,912.24	1,880.69	31.55	60.604	
4,600.00	4,595.84	4,547.24	4,545.52	16.64	15.80	-136.58	-1,782.69	-95.91	1,915.84	1,883.54	32.30	59.313	
4,700.00	4,695.74	4,651.61	4,649.86	17.00	16.16	-136.60	-1,782.83	-98.43	1,919.20	1,886.17	33.03	58.107	
4,800.00	4,795.64	4,757.56	4,755.78	17.37	16.53	-136.62	-1,782.64	-101.16	1,922.24	1,888.48	33.76	56.933	
4,900.00	4,895.54	4,868.40	4,866.59	17.73	16.92	-136.65	-1,782.01	-103.49	1,924.92	1,890.40	34.51	55.772	
5,000.00	4,995.43	4,984.15	4,982.32	18.10	17.32	-136.70	-1,780.50	-105.35	1,926.85	1,891.57	35.28	54.616	

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
5,100.00	5,095.33	5,083.68	5,081.82	18.46	17.67	-136.76	-1,778.72	-106.42	1,928.32	1,892.33	35.99	53.581		
5,200.00	5,195.23	5,176.06	5,174.19	18.83	17.99	-136.84	-1,777.28	-106.61	1,930.04	1,893.36	36.67	52.628		
5,300.00	5,295.13	5,258.61	5,256.73	19.19	18.28	-136.94	-1,776.46	-105.94	1,932.37	1,895.04	37.32	51.776		
5,400.00	5,395.03	5,343.57	5,341.68	19.56	18.57	-137.07	-1,776.45	-104.32	1,935.67	1,897.70	37.98	50.969		
5,500.00	5,494.93	5,400.00	5,398.09	19.92	18.77	-137.16	-1,776.68	-102.91	1,939.87	1,901.35	38.52	50.364		
5,600.00	5,594.56	5,400.00	5,398.09	20.29	18.77	-169.69	-1,776.68	-102.91	1,952.08	1,913.30	38.77	50.345 SF		
5,700.00	5,691.64	5,400.00	5,398.09	20.69	18.77	-176.24	-1,776.68	-102.91	1,985.05	1,946.10	38.95	50.961		
5,800.00	5,783.21	5,400.00	5,398.09	21.10	18.77	-178.37	-1,776.68	-102.91	2,037.76	1,998.70	39.06	52.175		
5,900.00	5,866.49	5,400.00	5,398.09	21.55	18.77	-179.65	-1,776.68	-102.91	2,107.20	2,068.10	39.10	53.890		
6,000.00	5,938.95	5,400.00	5,398.09	22.06	18.77	-179.10	-1,776.68	-102.91	2,189.78	2,150.67	39.11	55.988		
6,100.00	5,998.39	5,400.00	5,398.09	22.64	18.77	177.07	-1,776.68	-102.91	2,281.72	2,242.62	39.11	58.345		
6,200.00	6,043.00	5,400.00	5,398.09	23.31	18.77	170.03	-1,776.68	-102.91	2,379.31	2,340.21	39.11	60.841		
6,300.00	6,071.42	5,400.00	5,398.09	24.06	18.77	25.81	-1,776.68	-102.91	2,479.10	2,439.98	39.13	63.362		
6,400.00	6,082.79	5,400.00	5,398.09	24.89	18.77	7.85	-1,776.68	-102.91	2,577.98	2,538.80	39.18	65.802		
6,500.00	6,083.00	5,400.00	5,398.09	25.78	18.77	7.21	-1,776.68	-102.91	2,674.98	2,635.73	39.26	68.138		
6,600.00	6,083.00	5,400.00	5,398.09	26.77	18.77	7.21	-1,776.68	-102.91	2,772.16	2,732.82	39.34	70.472		
6,700.00	6,083.00	5,400.00	5,398.09	27.83	18.77	7.21	-1,776.68	-102.91	2,869.52	2,830.11	39.41	72.810		
6,800.00	6,083.00	5,400.00	5,398.09	28.96	18.77	7.21	-1,776.68	-102.91	2,967.06	2,927.58	39.48	75.152		
6,900.00	6,083.00	5,400.00	5,398.09	30.15	18.77	7.21	-1,776.68	-102.91	3,064.76	3,025.22	39.55	77.497		
7,000.00	6,083.00	5,400.00	5,398.09	31.40	18.77	7.21	-1,776.68	-102.91	3,162.61	3,123.00	39.61	79.844		
7,100.00	6,083.00	5,400.00	5,398.09	32.70	18.77	7.21	-1,776.68	-102.91	3,260.58	3,220.91	39.67	82.192		
7,200.00	6,083.00	5,400.00	5,398.09	34.04	18.77	7.21	-1,776.68	-102.91	3,358.68	3,318.95	39.73	84.542		
7,300.00	6,083.00	5,400.00	5,398.09	35.42	18.77	7.21	-1,776.68	-102.91	3,456.88	3,417.10	39.78	86.892		
7,400.00	6,083.00	5,400.00	5,398.09	36.83	18.77	7.21	-1,776.68	-102.91	3,555.18	3,515.35	39.84	89.241		
7,500.00	6,083.00	5,400.00	5,398.09	38.27	18.77	7.21	-1,776.68	-102.91	3,653.58	3,613.69	39.89	91.590		
7,600.00	6,083.00	5,400.00	5,398.09	39.74	18.77	7.21	-1,776.68	-102.91	3,752.06	3,712.12	39.94	93.938		
7,700.00	6,083.00	5,400.00	5,398.09	41.23	18.77	7.21	-1,776.68	-102.91	3,850.62	3,810.63	39.99	96.285		
7,800.00	6,083.00	5,400.00	5,398.09	42.75	18.77	7.21	-1,776.68	-102.91	3,949.25	3,909.21	40.04	98.630		
7,900.00	6,083.00	5,400.00	5,398.09	44.28	18.77	7.21	-1,776.68	-102.91	4,047.95	4,007.86	40.09	100.972		
8,000.00	6,083.00	5,400.00	5,398.09	45.83	18.77	7.21	-1,776.68	-102.91	4,146.71	4,106.57	40.14	103.312		
8,100.00	6,083.00	5,400.00	5,398.09	47.40	18.77	7.21	-1,776.68	-102.91	4,245.53	4,205.34	40.19	105.649		
8,200.00	6,083.00	5,400.00	5,398.09	48.98	18.77	7.21	-1,776.68	-102.91	4,344.40	4,304.17	40.23	107.983		
8,300.00	6,083.00	5,400.00	5,398.09	50.57	18.77	7.21	-1,776.68	-102.91	4,443.32	4,403.04	40.28	110.313		
8,400.00	6,083.00	5,400.00	5,398.09	52.18	18.77	7.21	-1,776.68	-102.91	4,542.29	4,501.97	40.33	112.640		
8,500.00	6,083.00	5,400.00	5,398.09	53.79	18.77	7.21	-1,776.68	-102.91	4,641.31	4,600.94	40.37	114.963		
8,600.00	6,083.00	5,400.00	5,398.09	55.42	18.77	7.21	-1,776.68	-102.91	4,740.37	4,699.95	40.42	117.282		
8,700.00	6,083.00	5,400.00	5,398.09	57.05	18.77	7.21	-1,776.68	-102.91	4,839.46	4,798.99	40.47	119.596		
8,800.00	6,083.00	5,400.00	5,398.09	58.70	18.77	7.21	-1,776.68	-102.91	4,938.59	4,898.08	40.51	121.905		
8,900.00	6,083.00	5,400.00	5,398.09	60.35	18.77	7.21	-1,776.68	-102.91	5,037.76	4,997.20	40.56	124.210		
9,000.00	6,083.00	5,400.00	5,398.09	62.00	18.77	7.21	-1,776.68	-102.91	5,136.95	5,096.35	40.61	126.510		
9,100.00	6,083.00	5,400.00	5,398.09	63.66	18.77	7.21	-1,776.68	-102.91	5,236.18	5,195.53	40.65	128.804		
9,200.00	6,083.00	5,400.00	5,398.09	65.33	18.77	7.21	-1,776.68	-102.91	5,335.44	5,294.74	40.70	131.093		
9,300.00	6,083.00	5,400.00	5,398.09	67.01	18.77	7.21	-1,776.68	-102.91	5,434.73	5,393.98	40.75	133.376		
9,400.00	6,083.00	5,400.00	5,398.09	68.69	18.77	7.21	-1,776.68	-102.91	5,534.04	5,493.24	40.80	135.654		
9,500.00	6,083.00	5,400.00	5,398.09	70.37	18.77	7.21	-1,776.68	-102.91	5,633.37	5,592.53	40.84	137.925		
9,600.00	6,083.00	5,400.00	5,398.09	72.06	18.77	7.21	-1,776.68	-102.91	5,732.73	5,691.84	40.89	140.191		
9,700.00	6,083.00	5,400.00	5,398.09	73.75	18.77	7.21	-1,776.68	-102.91	5,832.11	5,791.17	40.94	142.450		
9,800.00	6,083.00	5,400.00	5,398.09	75.45	18.77	7.21	-1,776.68	-102.91	5,931.51	5,890.52	40.99	144.702		
9,900.00	6,083.00	5,400.00	5,398.09	77.15	18.77	7.21	-1,776.68	-102.91	6,030.93	5,989.89	41.04	146.948		
10,000.00	6,083.00	5,400.00	5,398.09	78.85	18.77	7.21	-1,776.68	-102.91	6,130.37	6,089.28	41.09	149.188		
10,100.00	6,083.00	5,400.00	5,398.09	80.56	18.77	7.21	-1,776.68	-102.91	6,229.83	6,188.68	41.14	151.420		
10,200.00	6,083.00	5,400.00	5,398.09	82.26	18.77	7.21	-1,776.68	-102.91	6,329.30	6,288.11	41.19	153.646		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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							
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
10,300.00	6,083.00	5,400.00	5,398.09	83.98	18.77	7.21	-1,776.68	-102.91	6,428.79	6,387.54	41.25	155.864	
10,400.00	6,083.00	5,400.00	5,398.09	85.69	18.77	7.21	-1,776.68	-102.91	6,528.30	6,487.00	41.30	158.075	
10,500.00	6,083.00	5,400.00	5,398.09	87.41	18.77	7.21	-1,776.68	-102.91	6,627.82	6,586.47	41.35	160.279	
10,600.00	6,083.00	5,400.00	5,398.09	89.12	18.77	7.21	-1,776.68	-102.91	6,727.35	6,685.95	41.41	162.475	
10,700.00	6,083.00	5,400.00	5,398.09	90.85	18.77	7.21	-1,776.68	-102.91	6,826.90	6,785.44	41.46	164.664	
10,800.00	6,083.00	5,400.00	5,398.09	92.57	18.77	7.21	-1,776.68	-102.91	6,926.46	6,884.95	41.51	166.845	
10,900.00	6,083.00	5,400.00	5,398.09	94.29	18.77	7.21	-1,776.68	-102.91	7,026.04	6,984.47	41.57	169.018	
11,000.00	6,083.00	5,400.00	5,398.09	96.02	18.77	7.21	-1,776.68	-102.91	7,125.62	7,084.00	41.63	171.183	
11,100.00	6,083.00	5,400.00	5,398.09	97.75	18.77	7.21	-1,776.68	-102.91	7,225.22	7,183.54	41.68	173.341	
11,200.00	6,083.00	5,400.00	5,398.09	99.48	18.77	7.21	-1,776.68	-102.91	7,324.83	7,283.09	41.74	175.490	
11,300.00	6,083.00	5,400.00	5,398.09	101.21	18.77	7.21	-1,776.68	-102.91	7,424.45	7,382.65	41.80	177.631	
11,400.00	6,083.00	5,400.00	5,398.09	102.94	18.77	7.21	-1,776.68	-102.91	7,524.08	7,482.22	41.86	179.764	
11,500.00	6,083.00	5,400.00	5,398.09	104.67	18.77	7.21	-1,776.68	-102.91	7,623.72	7,581.80	41.91	181.889	
11,600.00	6,083.00	5,400.00	5,398.09	106.41	18.77	7.21	-1,776.68	-102.91	7,723.37	7,681.39	41.97	184.005	
11,700.00	6,083.00	5,400.00	5,398.09	108.15	18.77	7.21	-1,776.68	-102.91	7,823.02	7,780.99	42.03	186.113	
11,800.00	6,083.00	5,400.00	5,398.09	109.88	18.77	7.21	-1,776.68	-102.91	7,922.69	7,880.59	42.09	188.212	
11,900.00	6,083.00	5,400.00	5,398.09	111.62	18.77	7.21	-1,776.68	-102.91	8,022.36	7,980.21	42.16	190.303	
12,000.00	6,083.00	5,400.00	5,398.09	113.36	18.77	7.21	-1,776.68	-102.91	8,122.05	8,079.83	42.22	192.385	
12,100.00	6,083.00	5,400.00	5,398.09	115.10	18.77	7.21	-1,776.68	-102.91	8,221.74	8,179.46	42.28	194.458	
12,200.00	6,083.00	5,400.00	5,398.09	116.85	18.77	7.21	-1,776.68	-102.91	8,321.43	8,279.09	42.34	196.523	
12,300.00	6,083.00	5,400.00	5,398.09	118.59	18.77	7.21	-1,776.68	-102.91	8,421.14	8,378.73	42.41	198.579	
12,400.00	6,083.00	5,400.00	5,398.09	120.33	18.77	7.21	-1,776.68	-102.91	8,520.85	8,478.38	42.47	200.625	
12,500.00	6,083.00	5,400.00	5,398.09	122.08	18.77	7.21	-1,776.68	-102.91	8,620.57	8,578.03	42.54	202.663	
12,600.00	6,083.00	5,400.00	5,398.09	123.82	18.77	7.21	-1,776.68	-102.91	8,720.29	8,677.69	42.60	204.692	
12,700.00	6,083.00	5,400.00	5,398.09	125.57	18.77	7.21	-1,776.68	-102.91	8,820.02	8,777.35	42.67	206.712	
12,800.00	6,083.00	5,400.00	5,398.09	127.32	18.77	7.21	-1,776.68	-102.91	8,919.76	8,877.02	42.73	208.723	
12,900.00	6,083.00	5,400.00	5,398.09	129.07	18.77	7.21	-1,776.68	-102.91	9,019.50	8,976.70	42.80	210.724	
13,000.00	6,083.00	5,400.00	5,398.09	130.81	18.77	7.21	-1,776.68	-102.91	9,119.25	9,076.38	42.87	212.717	
13,100.00	6,083.00	5,400.00	5,398.09	132.56	18.77	7.21	-1,776.68	-102.91	9,219.00	9,176.07	42.94	214.700	
13,200.00	6,083.00	5,400.00	5,398.09	134.31	18.77	7.21	-1,776.68	-102.91	9,318.76	9,275.76	43.01	216.674	
13,300.00	6,083.00	5,400.00	5,398.09	136.06	18.77	7.21	-1,776.68	-102.91	9,418.53	9,375.45	43.08	218.639	
13,400.00	6,083.00	5,400.00	5,398.09	137.81	18.77	7.21	-1,776.68	-102.91	9,518.30	9,475.15	43.15	220.595	
13,500.00	6,083.00	5,400.00	5,398.09	139.57	18.77	7.21	-1,776.68	-102.91	9,618.07	9,574.85	43.22	222.541	
13,600.00	6,083.00	5,400.00	5,398.09	141.32	18.77	7.21	-1,776.68	-102.91	9,717.85	9,674.56	43.29	224.478	
13,700.00	6,083.00	5,400.00	5,398.09	143.07	18.77	7.21	-1,776.68	-102.91	9,817.63	9,774.27	43.36	226.406	
13,800.00	6,083.00	5,400.00	5,398.09	144.82	18.77	7.21	-1,776.68	-102.91	9,917.42	9,873.98	43.44	228.324	
13,900.00	6,083.00	5,400.00	5,398.09	146.58	18.77	7.21	-1,776.68	-102.91	10,017.21	9,973.70	43.51	230.233	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
100.00	100.00	24.00	24.00	0.27	0.28	-96.08	-418.28	-3,926.75	3,948.97	3,948.42	0.55	7,179.464		
200.00	200.00	124.00	124.00	0.63	1.72	-96.08	-418.28	-3,926.75	3,948.97	3,946.62	2.35	1,680.513		
300.00	300.00	224.00	224.00	0.99	3.97	-96.08	-418.28	-3,926.75	3,948.97	3,944.02	4.95	797.469		
400.00	400.00	324.00	324.00	1.34	6.04	-96.08	-418.28	-3,926.75	3,948.97	3,941.59	7.38	535.063		
500.00	499.98	423.98	423.98	1.70	8.07	-51.71	-418.28	-3,926.75	3,947.89	3,938.11	9.78	403.864		
600.00	599.88	523.88	523.88	2.06	10.10	-51.77	-418.28	-3,926.75	3,945.19	3,933.03	12.16	324.514		
700.00	699.78	623.78	623.78	2.42	12.12	-51.82	-418.28	-3,926.75	3,942.41	3,927.87	14.53	271.248		
800.00	799.68	723.68	723.68	2.78	14.14	-51.87	-418.28	-3,926.75	3,939.63	3,922.72	16.91	232.982		
900.00	899.58	823.58	823.58	3.14	16.15	-51.92	-418.28	-3,926.75	3,936.85	3,917.57	19.28	204.154		
1,000.00	999.48	923.48	923.48	3.50	18.17	-51.97	-418.28	-3,926.75	3,934.08	3,912.42	21.66	181.652		
1,100.00	1,099.38	1,023.38	1,023.38	3.87	20.18	-52.03	-418.28	-3,926.75	3,931.31	3,907.28	24.03	163.598		
1,200.00	1,199.28	1,123.28	1,123.28	4.23	22.19	-52.08	-418.28	-3,926.75	3,928.54	3,902.14	26.40	148.792		
1,300.00	1,299.18	1,223.18	1,223.18	4.59	24.20	-52.13	-418.28	-3,926.75	3,925.78	3,897.00	28.78	136.428		
1,400.00	1,399.08	1,323.08	1,323.08	4.96	26.21	-52.18	-418.28	-3,926.75	3,923.02	3,891.87	31.15	125.949		
1,500.00	1,498.97	1,422.97	1,422.97	5.32	28.22	-52.23	-418.28	-3,926.75	3,920.26	3,886.74	33.52	116.954		
1,600.00	1,598.87	1,522.87	1,522.87	5.69	30.23	-52.29	-418.28	-3,926.75	3,917.51	3,881.61	35.89	109.148		
1,700.00	1,698.77	1,622.77	1,622.77	6.05	32.24	-52.34	-418.28	-3,926.75	3,914.76	3,876.49	38.26	102.310		
1,800.00	1,798.67	1,722.67	1,722.67	6.42	34.25	-52.39	-418.28	-3,926.75	3,912.01	3,871.37	40.64	96.271		
1,900.00	1,898.57	1,822.57	1,822.57	6.78	36.26	-52.44	-418.28	-3,926.75	3,909.26	3,866.26	43.01	90.897		
2,000.00	1,998.47	1,922.47	1,922.47	7.15	38.27	-52.49	-418.28	-3,926.75	3,906.52	3,861.14	45.38	86.086		
2,100.00	2,098.37	2,022.37	2,022.37	7.51	40.28	-52.55	-418.28	-3,926.75	3,903.78	3,856.03	47.75	81.753		
2,200.00	2,198.27	2,122.27	2,122.27	7.87	42.29	-52.60	-418.28	-3,926.75	3,901.05	3,850.93	50.12	77.830		
2,300.00	2,298.17	2,222.17	2,222.17	8.24	44.30	-52.65	-418.28	-3,926.75	3,898.32	3,845.82	52.49	74.262		
2,400.00	2,398.06	2,322.06	2,322.06	8.60	46.31	-52.70	-418.28	-3,926.75	3,895.59	3,840.72	54.87	71.002		
2,500.00	2,497.96	2,421.96	2,421.96	8.97	48.32	-52.76	-418.28	-3,926.75	3,892.87	3,835.63	57.24	68.012		
2,600.00	2,597.86	2,521.86	2,521.86	9.33	50.33	-52.81	-418.28	-3,926.75	3,890.14	3,830.53	59.61	65.261		
2,700.00	2,697.76	2,621.76	2,621.76	9.70	52.34	-52.86	-418.28	-3,926.75	3,887.43	3,825.44	61.98	62.720		
2,800.00	2,797.66	2,721.66	2,721.66	10.06	54.35	-52.91	-418.28	-3,926.75	3,884.71	3,820.36	64.35	60.366		
2,900.00	2,897.56	2,821.56	2,821.56	10.43	56.36	-52.97	-418.28	-3,926.75	3,882.00	3,815.27	66.72	58.180		
3,000.00	2,997.46	2,921.46	2,921.46	10.79	58.37	-53.02	-418.28	-3,926.75	3,879.29	3,810.19	69.10	56.144		
3,100.00	3,097.36	3,021.36	3,021.36	11.16	60.38	-53.07	-418.28	-3,926.75	3,876.59	3,805.12	71.47	54.243		
3,200.00	3,197.25	3,121.25	3,121.25	11.52	62.39	-53.13	-418.28	-3,926.75	3,873.88	3,800.04	73.84	52.464		
3,300.00	3,297.15	3,221.15	3,221.15	11.89	64.40	-53.18	-418.28	-3,926.75	3,871.19	3,794.97	76.21	50.796		
3,400.00	3,397.05	3,321.05	3,321.05	12.25	66.41	-53.23	-418.28	-3,926.75	3,868.49	3,789.91	78.58	49.228		
3,500.00	3,496.95	3,420.95	3,420.95	12.62	68.41	-53.29	-418.28	-3,926.75	3,865.80	3,784.85	80.95	47.753		
3,600.00	3,596.85	3,520.85	3,520.85	12.98	70.42	-53.34	-418.28	-3,926.75	3,863.11	3,779.79	83.33	46.362		
3,700.00	3,696.75	3,620.75	3,620.75	13.35	72.43	-53.39	-418.28	-3,926.75	3,860.43	3,774.73	85.70	45.047		
3,800.00	3,796.65	3,720.65	3,720.65	13.72	74.44	-53.45	-418.28	-3,926.75	3,857.74	3,769.68	88.07	43.804		
3,900.00	3,896.55	3,820.55	3,820.55	14.08	76.45	-53.50	-418.28	-3,926.75	3,855.07	3,764.63	90.44	42.625		
4,000.00	3,996.45	3,920.45	3,920.45	14.45	78.46	-53.55	-418.28	-3,926.75	3,852.39	3,759.58	92.81	41.507		
4,100.00	4,096.34	4,020.34	4,020.34	14.81	80.47	-53.61	-418.28	-3,926.75	3,849.72	3,754.54	95.18	40.445		
4,200.00	4,196.24	4,120.24	4,120.24	15.18	82.48	-53.66	-418.28	-3,926.75	3,847.05	3,749.50	97.56	39.434		
4,300.00	4,296.14	4,220.14	4,220.14	15.54	84.49	-53.72	-418.28	-3,926.75	3,844.39	3,744.46	99.93	38.472		
4,400.00	4,396.04	4,320.04	4,320.04	15.91	86.50	-53.77	-418.28	-3,926.75	3,841.73	3,739.43	102.30	37.554		
4,500.00	4,495.94	4,419.94	4,419.94	16.27	88.51	-53.82	-418.28	-3,926.75	3,839.07	3,734.40	104.67	36.678		
4,600.00	4,595.84	4,519.84	4,519.84	16.64	90.52	-53.88	-418.28	-3,926.75	3,836.41	3,729.37	107.04	35.840		
4,700.00	4,695.74	4,619.74	4,619.74	17.00	92.52	-53.93	-418.28	-3,926.75	3,833.76	3,724.35	109.41	35.039		
4,800.00	4,795.64	4,719.64	4,719.64	17.37	94.53	-53.99	-418.28	-3,926.75	3,831.12	3,719.33	111.79	34.272		
4,900.00	4,895.54	4,819.54	4,819.54	17.73	96.54	-54.04	-418.28	-3,926.75	3,828.47	3,714.31	114.16	33.537		
5,000.00	4,995.43	4,919.43	4,919.43	18.10	98.55	-54.10	-418.28	-3,926.75	3,825.83	3,709.30	116.53	32.831		
5,100.00	5,095.33	5,019.33	5,019.33	18.46	100.56	-54.15	-418.28	-3,926.75	3,823.19	3,704.29	118.90	32.154		
5,200.00	5,195.23	5,119.23	5,119.23	18.83	102.57	-54.20	-418.28	-3,926.75	3,820.56	3,699.29	121.27	31.504		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
5,300.00	5,295.13	5,219.13	5,219.13	19.19	104.58	-54.26	-418.28	-3,926.75	3,817.93	3,694.29	123.64	30.878		
5,400.00	5,395.03	5,319.03	5,319.03	19.56	106.59	-54.31	-418.28	-3,926.75	3,815.30	3,689.29	126.02	30.276		
5,500.00	5,494.93	5,418.93	5,418.93	19.92	108.60	-54.37	-418.28	-3,926.75	3,812.68	3,684.29	128.39	29.696		
5,600.00	5,594.56	5,518.56	5,518.56	20.29	110.60	-87.10	-418.28	-3,926.75	3,810.67	3,679.91	130.76	29.142		
5,626.68	5,620.83	5,544.83	5,544.83	20.40	111.13	-90.00	-418.28	-3,926.75	3,810.57	3,679.17	131.40	29.001 CC		
5,700.00	5,691.64	5,615.64	5,615.64	20.69	112.55	-93.80	-418.28	-3,926.75	3,811.37	3,678.26	133.11	28.633 ES		
5,800.00	5,783.21	5,707.21	5,707.21	21.10	114.39	-95.87	-418.28	-3,926.75	3,815.22	3,679.83	135.39	28.180		
5,900.00	5,866.49	5,790.49	5,790.49	21.55	116.07	-96.71	-418.28	-3,926.75	3,822.59	3,685.04	137.54	27.792		
6,000.00	5,938.95	5,862.95	5,862.95	22.06	117.53	-96.83	-418.28	-3,926.75	3,833.84	3,694.30	139.54	27.475		
6,100.00	5,998.39	5,922.39	5,922.39	22.64	118.72	-96.29	-418.28	-3,926.75	3,849.27	3,707.93	141.35	27.233		
6,200.00	6,043.00	5,967.00	5,967.00	23.31	119.62	-95.07	-418.28	-3,926.75	3,869.01	3,726.08	142.93	27.070		
6,300.00	6,071.42	5,995.42	5,995.42	24.06	120.19	-93.13	-418.28	-3,926.75	3,892.91	3,748.66	144.25	26.987		
6,400.00	6,082.79	6,006.79	6,006.79	24.89	120.42	-90.47	-418.28	-3,926.75	3,920.54	3,775.26	145.28	26.986 SF		
6,500.00	6,083.00	6,007.00	6,007.00	25.78	120.42	-90.00	-418.28	-3,926.75	3,951.05	3,804.93	146.13	27.039		
6,600.00	6,083.00	6,007.00	6,007.00	26.77	120.42	-90.00	-418.28	-3,926.75	3,983.85	3,836.82	147.03	27.096		
6,700.00	6,083.00	6,007.00	6,007.00	27.83	120.42	-90.00	-418.28	-3,926.75	4,018.87	3,870.89	147.97	27.159		
6,800.00	6,083.00	6,007.00	6,007.00	28.96	120.42	-90.00	-418.28	-3,926.75	4,056.05	3,907.10	148.95	27.231		
6,900.00	6,083.00	6,007.00	6,007.00	30.15	120.42	-90.00	-418.28	-3,926.75	4,095.33	3,945.38	149.95	27.311		
7,000.00	6,083.00	6,007.00	6,007.00	31.40	120.42	-90.00	-418.28	-3,926.75	4,136.67	3,985.70	150.97	27.401		
7,100.00	6,083.00	6,007.00	6,007.00	32.70	120.42	-90.00	-418.28	-3,926.75	4,179.98	4,027.99	151.99	27.502		
7,200.00	6,083.00	6,007.00	6,007.00	34.04	120.42	-90.00	-418.28	-3,926.75	4,225.22	4,072.20	153.01	27.613		
7,300.00	6,083.00	6,007.00	6,007.00	35.42	120.42	-90.00	-418.28	-3,926.75	4,272.32	4,118.29	154.03	27.737		
7,400.00	6,083.00	6,007.00	6,007.00	36.83	120.42	-90.00	-418.28	-3,926.75	4,321.22	4,166.18	155.04	27.871		
7,500.00	6,083.00	6,007.00	6,007.00	38.27	120.42	-90.00	-418.28	-3,926.75	4,371.86	4,215.82	156.04	28.018		
7,600.00	6,083.00	6,007.00	6,007.00	39.74	120.42	-90.00	-418.28	-3,926.75	4,424.18	4,267.16	157.02	28.176		
7,700.00	6,083.00	6,007.00	6,007.00	41.23	120.42	-90.00	-418.28	-3,926.75	4,478.13	4,320.14	157.99	28.345		
7,800.00	6,083.00	6,007.00	6,007.00	42.75	120.42	-90.00	-418.28	-3,926.75	4,533.64	4,374.70	158.93	28.526		
7,900.00	6,083.00	6,007.00	6,007.00	44.28	120.42	-90.00	-418.28	-3,926.75	4,590.65	4,430.80	159.86	28.717		
8,000.00	6,083.00	6,007.00	6,007.00	45.83	120.42	-90.00	-418.28	-3,926.75	4,649.12	4,488.36	160.76	28.920		
8,100.00	6,083.00	6,007.00	6,007.00	47.40	120.42	-90.00	-418.28	-3,926.75	4,708.99	4,547.35	161.64	29.133		
8,200.00	6,083.00	6,007.00	6,007.00	48.98	120.42	-90.00	-418.28	-3,926.75	4,770.20	4,607.70	162.50	29.356		
8,300.00	6,083.00	6,007.00	6,007.00	50.57	120.42	-90.00	-418.28	-3,926.75	4,832.70	4,669.38	163.33	29.589		
8,400.00	6,083.00	6,007.00	6,007.00	52.18	120.42	-90.00	-418.28	-3,926.75	4,896.45	4,732.32	164.14	29.831		
8,500.00	6,083.00	6,007.00	6,007.00	53.79	120.42	-90.00	-418.28	-3,926.75	4,961.40	4,796.48	164.92	30.083		
8,600.00	6,083.00	6,007.00	6,007.00	55.42	120.42	-90.00	-418.28	-3,926.75	5,027.50	4,861.81	165.68	30.344		
8,700.00	6,083.00	6,007.00	6,007.00	57.05	120.42	-90.00	-418.28	-3,926.75	5,094.70	4,928.28	166.42	30.613		
8,800.00	6,083.00	6,007.00	6,007.00	58.70	120.42	-90.00	-418.28	-3,926.75	5,162.96	4,995.83	167.14	30.890		
8,900.00	6,083.00	6,007.00	6,007.00	60.35	120.42	-90.00	-418.28	-3,926.75	5,232.25	5,064.42	167.83	31.176		
9,000.00	6,083.00	6,007.00	6,007.00	62.00	120.42	-90.00	-418.28	-3,926.75	5,302.52	5,134.01	168.50	31.468		
9,100.00	6,083.00	6,007.00	6,007.00	63.66	120.42	-90.00	-418.28	-3,926.75	5,373.72	5,204.57	169.15	31.769		
9,200.00	6,083.00	6,007.00	6,007.00	65.33	120.42	-90.00	-418.28	-3,926.75	5,445.84	5,276.06	169.78	32.076		
9,300.00	6,083.00	6,007.00	6,007.00	67.01	120.42	-90.00	-418.28	-3,926.75	5,518.82	5,348.43	170.39	32.390		
9,400.00	6,083.00	6,007.00	6,007.00	68.69	120.42	-90.00	-418.28	-3,926.75	5,592.64	5,421.66	170.98	32.710		
9,500.00	6,083.00	6,007.00	6,007.00	70.37	120.42	-90.00	-418.28	-3,926.75	5,667.26	5,495.71	171.55	33.036		
9,600.00	6,083.00	6,007.00	6,007.00	72.06	120.42	-90.00	-418.28	-3,926.75	5,742.65	5,570.56	172.10	33.369		
9,700.00	6,083.00	6,007.00	6,007.00	73.75	120.42	-90.00	-418.28	-3,926.75	5,818.79	5,646.16	172.63	33.707		
9,800.00	6,083.00	6,007.00	6,007.00	75.45	120.42	-90.00	-418.28	-3,926.75	5,895.64	5,722.49	173.15	34.050		
9,900.00	6,083.00	6,007.00	6,007.00	77.15	120.42	-90.00	-418.28	-3,926.75	5,973.17	5,799.53	173.64	34.399		
10,000.00	6,083.00	6,007.00	6,007.00	78.85	120.42	-90.00	-418.28	-3,926.75	6,051.36	5,877.24	174.13	34.753		
10,100.00	6,083.00	6,007.00	6,007.00	80.56	120.42	-90.00	-418.28	-3,926.75	6,130.19	5,955.60	174.59	35.111		
10,200.00	6,083.00	6,007.00	6,007.00	82.26	120.42	-90.00	-418.28	-3,926.75	6,209.63	6,034.58	175.04	35.475		
10,300.00	6,083.00	6,007.00	6,007.00	83.98	120.42	-90.00	-418.28	-3,926.75	6,289.65	6,114.17	175.48	35.842		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,400.00	6,083.00	6,007.00	6,007.00	85.69	120.42	-90.00	-418.28	-3,926.75	6,370.24	6,194.33	175.91	36.214		
10,500.00	6,083.00	6,007.00	6,007.00	87.41	120.42	-90.00	-418.28	-3,926.75	6,451.37	6,275.05	176.32	36.590		
10,600.00	6,083.00	6,007.00	6,007.00	89.12	120.42	-90.00	-418.28	-3,926.75	6,533.02	6,356.31	176.71	36.970		
10,700.00	6,083.00	6,007.00	6,007.00	90.85	120.42	-90.00	-418.28	-3,926.75	6,615.18	6,438.08	177.10	37.353		
10,800.00	6,083.00	6,007.00	6,007.00	92.57	120.42	-90.00	-418.28	-3,926.75	6,697.83	6,520.35	177.47	37.740		
10,900.00	6,083.00	6,007.00	6,007.00	94.29	120.42	-90.00	-418.28	-3,926.75	6,780.94	6,603.10	177.83	38.131		
11,000.00	6,083.00	6,007.00	6,007.00	96.02	120.42	-90.00	-418.28	-3,926.75	6,864.50	6,686.31	178.18	38.525		
11,100.00	6,083.00	6,007.00	6,007.00	97.75	120.42	-90.00	-418.28	-3,926.75	6,948.49	6,769.97	178.52	38.922		
11,200.00	6,083.00	6,007.00	6,007.00	99.48	120.42	-90.00	-418.28	-3,926.75	7,032.91	6,854.05	178.85	39.322		
11,300.00	6,083.00	6,007.00	6,007.00	101.21	120.42	-90.00	-418.28	-3,926.75	7,117.73	6,938.55	179.18	39.725		
11,400.00	6,083.00	6,007.00	6,007.00	102.94	120.42	-90.00	-418.28	-3,926.75	7,202.94	7,023.45	179.49	40.131		
11,500.00	6,083.00	6,007.00	6,007.00	104.67	120.42	-90.00	-418.28	-3,926.75	7,288.52	7,108.73	179.79	40.539		
11,600.00	6,083.00	6,007.00	6,007.00	106.41	120.42	-90.00	-418.28	-3,926.75	7,374.47	7,194.38	180.08	40.951		
11,700.00	6,083.00	6,007.00	6,007.00	108.15	120.42	-90.00	-418.28	-3,926.75	7,460.76	7,280.40	180.37	41.364		
11,800.00	6,083.00	6,007.00	6,007.00	109.88	120.42	-90.00	-418.28	-3,926.75	7,547.40	7,366.75	180.64	41.780		
11,900.00	6,083.00	6,007.00	6,007.00	111.62	120.42	-90.00	-418.28	-3,926.75	7,634.36	7,453.45	180.91	42.199		
12,000.00	6,083.00	6,007.00	6,007.00	113.36	120.42	-90.00	-418.28	-3,926.75	7,721.64	7,540.46	181.18	42.620		
12,100.00	6,083.00	6,007.00	6,007.00	115.10	120.42	-90.00	-418.28	-3,926.75	7,809.22	7,627.79	181.43	43.042		
12,200.00	6,083.00	6,007.00	6,007.00	116.85	120.42	-90.00	-418.28	-3,926.75	7,897.10	7,715.42	181.68	43.467		
12,300.00	6,083.00	6,007.00	6,007.00	118.59	120.42	-90.00	-418.28	-3,926.75	7,985.26	7,803.34	181.92	43.894		
12,400.00	6,083.00	6,007.00	6,007.00	120.33	120.42	-90.00	-418.28	-3,926.75	8,073.70	7,891.54	182.16	44.323		
12,500.00	6,083.00	6,007.00	6,007.00	122.08	120.42	-90.00	-418.28	-3,926.75	8,162.40	7,980.02	182.39	44.753		
12,600.00	6,083.00	6,007.00	6,007.00	123.82	120.42	-90.00	-418.28	-3,926.75	8,251.37	8,068.76	182.61	45.186		
12,700.00	6,083.00	6,007.00	6,007.00	125.57	120.42	-90.00	-418.28	-3,926.75	8,340.58	8,157.75	182.83	45.620		
12,800.00	6,083.00	6,007.00	6,007.00	127.32	120.42	-90.00	-418.28	-3,926.75	8,430.04	8,247.00	183.04	46.055		
12,900.00	6,083.00	6,007.00	6,007.00	129.07	120.42	-90.00	-418.28	-3,926.75	8,519.73	8,336.48	183.25	46.493		
13,000.00	6,083.00	6,007.00	6,007.00	130.81	120.42	-90.00	-418.28	-3,926.75	8,609.65	8,426.19	183.45	46.931		
13,100.00	6,083.00	6,007.00	6,007.00	132.56	120.42	-90.00	-418.28	-3,926.75	8,699.78	8,516.13	183.65	47.372		
13,200.00	6,083.00	6,007.00	6,007.00	134.31	120.42	-90.00	-418.28	-3,926.75	8,790.14	8,606.29	183.84	47.813		
13,300.00	6,083.00	6,007.00	6,007.00	136.06	120.42	-90.00	-418.28	-3,926.75	8,880.69	8,696.66	184.03	48.256		
13,400.00	6,083.00	6,007.00	6,007.00	137.81	120.42	-90.00	-418.28	-3,926.75	8,971.45	8,787.23	184.22	48.700		
13,500.00	6,083.00	6,007.00	6,007.00	139.57	120.42	-90.00	-418.28	-3,926.75	9,062.41	8,878.01	184.40	49.146		
13,600.00	6,083.00	6,007.00	6,007.00	141.32	120.42	-90.00	-418.28	-3,926.75	9,153.55	8,968.97	184.57	49.593		
13,700.00	6,083.00	6,007.00	6,007.00	143.07	120.42	-90.00	-418.28	-3,926.75	9,244.87	9,060.12	184.75	50.041		
13,800.00	6,083.00	6,007.00	6,007.00	144.82	120.42	-90.00	-418.28	-3,926.75	9,336.37	9,151.46	184.92	50.490		
13,900.00	6,083.00	6,007.00	6,007.00	146.58	120.42	-90.00	-418.28	-3,926.75	9,428.05	9,242.97	185.08	50.940		
14,000.00	6,083.00	6,007.00	6,007.00	148.33	120.42	-90.00	-418.28	-3,926.75	9,519.89	9,334.65	185.24	51.391		
14,100.00	6,083.00	6,007.00	6,007.00	150.09	120.42	-90.00	-418.28	-3,926.75	9,611.90	9,426.49	185.40	51.843		
14,200.00	6,083.00	6,007.00	6,007.00	151.84	120.42	-90.00	-418.28	-3,926.75	9,704.06	9,518.50	185.56	52.296		
14,300.00	6,083.00	6,007.00	6,007.00	153.60	120.42	-90.00	-418.28	-3,926.75	9,796.38	9,610.67	185.71	52.750		
14,400.00	6,083.00	6,007.00	6,007.00	155.35	120.42	-90.00	-418.28	-3,926.75	9,888.85	9,702.98	185.86	53.205		
14,500.00	6,083.00	6,007.00	6,007.00	157.11	120.42	-90.00	-418.28	-3,926.75	9,981.46	9,795.45	186.01	53.661		
14,600.00	6,083.00	6,007.00	6,007.00	158.87	120.42	-90.00	-418.28	-3,926.75	10,074.21	9,888.06	186.15	54.118		
14,700.00	6,083.00	6,007.00	6,007.00	160.62	120.42	-90.00	-418.28	-3,926.75	10,167.10	9,980.81	186.30	54.575		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
0.00	0.00	10,624.00	6,231.41	0.00	121.87	72.56	872.38	2,777.08	6,836.12					
100.00	100.00	10,624.00	6,231.41	0.27	121.87	72.56	872.38	2,777.08	6,745.77	6,707.24	38.53	175.090		
200.00	200.00	10,624.00	6,231.41	0.63	121.87	72.56	872.38	2,777.08	6,655.70	6,617.15	38.55	172.651		
300.00	300.00	10,624.00	6,231.41	0.99	121.87	72.56	872.38	2,777.08	6,565.92	6,527.33	38.59	170.144		
400.00	400.00	10,624.00	6,231.41	1.34	121.87	72.56	872.38	2,777.08	6,476.43	6,437.78	38.65	167.571		
500.00	499.98	10,624.00	6,231.41	1.70	121.87	120.36	872.38	2,777.08	6,387.64	6,348.93	38.71	165.030		
600.00	599.88	10,624.00	6,231.41	2.06	121.87	121.28	872.38	2,777.08	6,299.80	6,261.04	38.76	162.536		
700.00	699.78	10,624.00	6,231.41	2.42	121.87	121.28	872.38	2,777.08	6,212.36	6,173.52	38.84	159.940		
800.00	799.68	10,624.00	6,231.41	2.78	121.87	121.28	872.38	2,777.08	6,125.30	6,086.36	38.94	157.302		
900.00	899.58	10,624.00	6,231.41	3.14	121.87	121.28	872.38	2,777.08	6,038.65	5,999.60	39.05	154.629		
1,000.00	999.48	10,624.00	6,231.41	3.50	121.87	121.28	872.38	2,777.08	5,952.42	5,913.24	39.18	151.929		
1,100.00	1,099.38	10,624.00	6,231.41	3.87	121.87	121.28	872.38	2,777.08	5,866.62	5,827.30	39.32	149.209		
1,200.00	1,199.28	10,624.00	6,231.41	4.23	121.87	121.28	872.38	2,777.08	5,781.28	5,741.81	39.47	146.476		
1,300.00	1,299.18	10,624.00	6,231.41	4.59	121.87	121.28	872.38	2,777.08	5,696.41	5,656.78	39.63	143.736		
1,400.00	1,399.08	10,624.00	6,231.41	4.96	121.87	121.28	872.38	2,777.08	5,612.05	5,572.24	39.80	140.993		
1,500.00	1,498.97	10,624.00	6,231.41	5.32	121.87	121.28	872.38	2,777.08	5,528.20	5,488.22	39.99	138.252		
1,600.00	1,598.87	10,624.00	6,231.41	5.69	121.87	121.28	872.38	2,777.08	5,444.90	5,404.72	40.18	135.517		
1,700.00	1,698.77	10,624.00	6,231.41	6.05	121.87	121.28	872.38	2,777.08	5,362.17	5,321.79	40.38	132.793		
1,800.00	1,798.67	10,624.00	6,231.41	6.42	121.87	121.28	872.38	2,777.08	5,280.04	5,239.45	40.59	130.081		
1,900.00	1,898.57	10,624.00	6,231.41	6.78	121.87	121.28	872.38	2,777.08	5,198.54	5,157.73	40.81	127.385		
2,000.00	1,998.47	10,624.00	6,231.41	7.15	121.87	121.28	872.38	2,777.08	5,117.69	5,076.65	41.04	124.707		
2,100.00	2,098.37	10,624.00	6,231.41	7.51	121.87	121.28	872.38	2,777.08	5,037.53	4,996.26	41.27	122.051		
2,200.00	2,198.27	10,624.00	6,231.41	7.87	121.87	121.28	872.38	2,777.08	4,958.09	4,916.57	41.52	119.417		
2,300.00	2,298.17	10,624.00	6,231.41	8.24	121.87	121.28	872.38	2,777.08	4,879.41	4,837.64	41.77	116.809		
2,400.00	2,398.06	10,624.00	6,231.41	8.60	121.87	121.28	872.38	2,777.08	4,801.52	4,759.48	42.03	114.228		
2,500.00	2,497.96	10,624.00	6,231.41	8.97	121.87	121.28	872.38	2,777.08	4,724.46	4,682.16	42.30	111.676		
2,600.00	2,597.86	10,624.00	6,231.41	9.33	121.87	121.28	872.38	2,777.08	4,648.28	4,605.69	42.58	109.155		
2,700.00	2,697.76	10,624.00	6,231.41	9.70	121.87	121.28	872.38	2,777.08	4,573.01	4,530.14	42.87	106.667		
2,800.00	2,797.66	10,624.00	6,231.41	10.06	121.87	121.28	872.38	2,777.08	4,498.71	4,455.54	43.17	104.213		
2,900.00	2,897.56	10,624.00	6,231.41	10.43	121.87	121.28	872.38	2,777.08	4,425.42	4,381.95	43.47	101.795		
3,000.00	2,997.46	10,624.00	6,231.41	10.79	121.87	121.28	872.38	2,777.08	4,353.19	4,309.41	43.79	99.415		
3,100.00	3,097.36	10,624.00	6,231.41	11.16	121.87	121.28	872.38	2,777.08	4,282.08	4,237.97	44.11	97.074		
3,200.00	3,197.25	10,624.00	6,231.41	11.52	121.87	121.28	872.38	2,777.08	4,212.15	4,167.71	44.44	94.775		
3,300.00	3,297.15	10,624.00	6,231.41	11.89	121.87	121.28	872.38	2,777.08	4,143.45	4,098.66	44.79	92.518		
3,400.00	3,397.05	10,624.00	6,231.41	12.25	121.87	121.28	872.38	2,777.08	4,076.04	4,030.90	45.14	90.306		
3,500.00	3,496.95	10,624.00	6,231.41	12.62	121.87	121.28	872.38	2,777.08	4,009.99	3,964.50	45.50	88.140		
3,600.00	3,596.85	10,624.00	6,231.41	12.98	121.87	121.28	872.38	2,777.08	3,945.38	3,899.51	45.86	86.022		
3,700.00	3,696.75	10,624.00	6,231.41	13.35	121.87	121.28	872.38	2,777.08	3,882.26	3,836.02	46.24	83.954		
3,800.00	3,796.65	10,624.00	6,231.41	13.72	121.87	121.28	872.38	2,777.08	3,820.72	3,774.09	46.63	81.937		
3,900.00	3,896.55	10,624.00	6,231.41	14.08	121.87	121.28	872.38	2,777.08	3,760.83	3,713.81	47.03	79.973		
4,000.00	3,996.45	10,624.00	6,231.41	14.45	121.87	121.28	872.38	2,777.08	3,702.68	3,655.25	47.43	78.065		
4,100.00	4,096.34	10,624.00	6,231.41	14.81	121.87	121.28	872.38	2,777.08	3,646.34	3,598.49	47.84	76.213		
4,200.00	4,196.24	10,624.00	6,231.41	15.18	121.87	121.28	872.38	2,777.08	3,591.90	3,543.63	48.27	74.420		
4,300.00	4,296.14	10,624.00	6,231.41	15.54	121.87	121.28	872.38	2,777.08	3,539.45	3,490.75	48.69	72.687		
4,400.00	4,396.04	10,624.00	6,231.41	15.91	121.87	121.28	872.38	2,777.08	3,489.07	3,439.94	49.13	71.016		
4,500.00	4,495.94	10,624.00	6,231.41	16.27	121.87	121.28	872.38	2,777.08	3,440.87	3,391.30	49.57	69.409		
4,600.00	4,595.84	10,624.00	6,231.41	16.64	121.87	121.28	872.38	2,777.08	3,394.93	3,344.90	50.02	67.868		
4,700.00	4,695.74	10,624.00	6,231.41	17.00	121.87	121.28	872.38	2,777.08	3,351.34	3,300.86	50.48	66.394		
4,800.00	4,795.64	10,624.00	6,231.41	17.37	121.87	121.28	872.38	2,777.08	3,310.20	3,259.27	50.94	64.988		
4,900.00	4,895.54	10,624.00	6,231.41	17.73	121.87	121.28	872.38	2,777.08	3,271.60	3,220.21	51.40	63.653		
5,000.00	4,995.43	10,624.00	6,231.41	18.10	121.87	121.28	872.38	2,777.08	3,235.64	3,183.77	51.86	62.389		
5,100.00	5,095.33	10,624.00	6,231.41	18.46	121.87	121.28	872.38	2,777.08	3,202.39	3,150.06	52.33	61.198		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
5,200.00	5,195.23	10,624.00	6,231.41	18.83	121.87	121.28	872.38	2,777.08	3,171.95	3,119.15	52.79	60.081		
5,300.00	5,295.13	10,624.00	6,231.41	19.19	121.87	121.28	872.38	2,777.08	3,144.39	3,091.13	53.26	59.040		
5,400.00	5,395.03	10,624.00	6,231.41	19.56	121.87	121.28	872.38	2,777.08	3,119.80	3,066.08	53.72	58.074		
5,500.00	5,494.93	10,624.00	6,231.41	19.92	121.87	121.28	872.38	2,777.08	3,098.24	3,044.06	54.18	57.185		
5,600.00	5,594.56	10,624.00	6,231.41	20.29	121.87	90.04	872.38	2,777.08	3,078.94	3,024.41	54.53	56.462		
5,700.00	5,691.64	10,624.00	6,231.41	20.69	121.87	85.57	872.38	2,777.08	3,059.41	3,004.96	54.44	56.197		
5,800.00	5,783.21	10,624.00	6,231.41	21.10	121.87	85.61	872.38	2,777.08	3,040.00	2,986.10	53.91	56.394		
5,900.00	5,866.49	10,624.00	6,231.41	21.55	121.87	86.61	872.38	2,777.08	3,021.33	2,968.34	53.00	57.009		
6,000.00	5,938.95	10,624.00	6,231.41	22.06	121.87	87.87	872.38	2,777.08	3,003.98	2,952.15	51.82	57.965		
6,100.00	5,998.39	10,624.00	6,231.41	22.64	121.87	89.14	872.38	2,777.08	2,988.49	2,937.95	50.54	59.128		
6,200.00	6,043.00	10,624.00	6,231.41	23.31	121.87	90.29	872.38	2,777.08	2,975.38	2,926.04	49.35	60.297		
6,300.00	6,071.42	10,624.00	6,231.41	24.06	121.87	91.23	872.38	2,777.08	2,965.07	2,916.62	48.45	61.199		
6,400.00	6,082.79	10,624.00	6,231.41	24.89	121.87	91.91	872.38	2,777.08	2,957.92	2,909.85	48.06	61.540		
6,500.00	6,083.00	10,624.00	6,231.41	25.78	121.87	91.99	872.38	2,777.08	2,954.12	2,905.75	48.37	61.076		
6,562.28	6,083.00	10,624.00	6,231.41	26.39	121.87	91.99	872.38	2,777.08	2,953.46	2,904.50	48.97	60.316 CC		
6,600.00	6,083.00	10,624.00	6,231.41	26.77	121.87	91.99	872.38	2,777.08	2,953.70	2,904.24	49.46	59.717 ES		
6,700.00	6,083.00	10,624.00	6,231.41	27.83	121.87	91.99	872.38	2,777.08	2,956.67	2,905.36	51.32	57.617		
6,800.00	6,083.00	10,624.00	6,231.41	28.96	121.87	91.99	872.38	2,777.08	2,963.01	2,909.18	53.84	55.035		
6,900.00	6,083.00	10,624.00	6,231.41	30.15	121.87	91.99	872.38	2,777.08	2,972.71	2,915.81	56.90	52.245		
7,000.00	6,083.00	10,624.00	6,231.41	31.40	121.87	91.99	872.38	2,777.08	2,985.72	2,925.36	60.36	49.463		
7,100.00	6,083.00	10,624.00	6,231.41	32.70	121.87	91.99	872.38	2,777.08	3,002.01	2,937.90	64.11	46.827		
7,200.00	6,083.00	10,624.00	6,231.41	34.04	121.87	91.99	872.38	2,777.08	3,021.53	2,953.49	68.04	44.409		
7,300.00	6,083.00	10,624.00	6,231.41	35.42	121.87	91.99	872.38	2,777.08	3,044.20	2,972.13	72.07	42.237		
7,400.00	6,083.00	10,624.00	6,231.41	36.83	121.87	91.99	872.38	2,777.08	3,069.97	2,993.82	76.15	40.313		
7,500.00	6,083.00	10,624.00	6,231.41	38.27	121.87	91.99	872.38	2,777.08	3,098.75	3,018.52	80.23	38.624		
7,600.00	6,083.00	10,624.00	6,231.41	39.74	121.87	91.99	872.38	2,777.08	3,130.47	3,046.20	84.27	37.149		
7,700.00	6,083.00	10,624.00	6,231.41	41.23	121.87	91.99	872.38	2,777.08	3,165.02	3,076.78	88.24	35.869		
7,800.00	6,083.00	10,624.00	6,231.41	42.75	121.87	91.99	872.38	2,777.08	3,202.33	3,110.21	92.12	34.763		
7,900.00	6,083.00	10,624.00	6,231.41	44.28	121.87	91.99	872.38	2,777.08	3,242.29	3,146.39	95.90	33.810		
8,000.00	6,083.00	10,624.00	6,231.41	45.83	121.87	91.99	872.38	2,777.08	3,284.81	3,185.25	99.56	32.994		
8,100.00	6,083.00	10,624.00	6,231.41	47.40	121.87	91.99	872.38	2,777.08	3,329.80	3,226.70	103.10	32.298		
8,200.00	6,083.00	10,624.00	6,231.41	48.98	121.87	91.99	872.38	2,777.08	3,377.14	3,270.64	106.50	31.710		
8,300.00	6,083.00	10,624.00	6,231.41	50.57	121.87	91.99	872.38	2,777.08	3,426.75	3,316.98	109.77	31.217		
8,400.00	6,083.00	10,624.00	6,231.41	52.18	121.87	91.99	872.38	2,777.08	3,478.53	3,365.62	112.91	30.808		
8,500.00	6,083.00	10,624.00	6,231.41	53.79	121.87	91.99	872.38	2,777.08	3,532.38	3,416.47	115.91	30.475		
8,600.00	6,083.00	10,624.00	6,231.41	55.42	121.87	91.99	872.38	2,777.08	3,588.21	3,469.43	118.78	30.209		
8,700.00	6,083.00	10,624.00	6,231.41	57.05	121.87	91.99	872.38	2,777.08	3,645.93	3,524.41	121.52	30.004		
8,800.00	6,083.00	10,624.00	6,231.41	58.70	121.87	91.99	872.38	2,777.08	3,705.45	3,581.33	124.12	29.853		
8,900.00	6,083.00	10,624.00	6,231.41	60.35	121.87	91.99	872.38	2,777.08	3,766.68	3,640.08	126.60	29.752		
9,000.00	6,083.00	10,624.00	6,231.41	62.00	121.87	91.99	872.38	2,777.08	3,829.55	3,700.58	128.97	29.694		
9,100.00	6,083.00	10,624.00	6,231.41	63.66	121.87	91.99	872.38	2,777.08	3,893.97	3,762.76	131.21	29.677 SF		
9,200.00	6,083.00	10,624.00	6,231.41	65.33	121.87	91.99	872.38	2,777.08	3,959.86	3,826.52	133.34	29.697		
9,300.00	6,083.00	10,624.00	6,231.41	67.01	121.87	91.99	872.38	2,777.08	4,027.17	3,891.80	135.37	29.750		
9,400.00	6,083.00	10,624.00	6,231.41	68.69	121.87	91.99	872.38	2,777.08	4,095.80	3,958.52	137.29	29.833		
9,500.00	6,083.00	10,624.00	6,231.41	70.37	121.87	91.99	872.38	2,777.08	4,165.71	4,026.60	139.11	29.945		
9,600.00	6,083.00	10,624.00	6,231.41	72.06	121.87	91.99	872.38	2,777.08	4,236.83	4,095.98	140.85	30.081		
9,700.00	6,083.00	10,624.00	6,231.41	73.75	121.87	91.99	872.38	2,777.08	4,309.09	4,166.60	142.49	30.242		
9,800.00	6,083.00	10,624.00	6,231.41	75.45	121.87	91.99	872.38	2,777.08	4,382.44	4,238.39	144.05	30.423		
9,900.00	6,083.00	10,624.00	6,231.41	77.15	121.87	91.99	872.38	2,777.08	4,456.83	4,311.30	145.53	30.625		
10,000.00	6,083.00	10,624.00	6,231.41	78.85	121.87	91.99	872.38	2,777.08	4,532.21	4,385.27	146.93	30.845		
10,100.00	6,083.00	10,624.00	6,231.41	80.56	121.87	91.99	872.38	2,777.08	4,608.52	4,460.25	148.27	31.083		
10,200.00	6,083.00	10,624.00	6,231.41	82.26	121.87	91.99	872.38	2,777.08	4,685.72	4,536.19	149.53	31.336		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,300.00	6,083.00	10,624.00	6,231.41	83.98	121.87	91.99	872.38	2,777.08	4,763.77	4,613.04	150.74	31.604		
10,400.00	6,083.00	10,624.00	6,231.41	85.69	121.87	91.99	872.38	2,777.08	4,842.63	4,690.75	151.88	31.885		
10,500.00	6,083.00	10,624.00	6,231.41	87.41	121.87	91.99	872.38	2,777.08	4,922.26	4,769.29	152.96	32.179		
10,600.00	6,083.00	10,624.00	6,231.41	89.12	121.87	91.99	872.38	2,777.08	5,002.61	4,848.62	154.00	32.485		
10,700.00	6,083.00	10,624.00	6,231.41	90.85	121.87	91.99	872.38	2,777.08	5,083.67	4,928.69	154.98	32.802		
10,800.00	6,083.00	10,624.00	6,231.41	92.57	121.87	91.99	872.38	2,777.08	5,165.39	5,009.48	155.91	33.130		
10,900.00	6,083.00	10,624.00	6,231.41	94.29	121.87	91.99	872.38	2,777.08	5,247.74	5,090.94	156.80	33.467		
11,000.00	6,083.00	10,624.00	6,231.41	96.02	121.87	91.99	872.38	2,777.08	5,330.70	5,173.05	157.65	33.814		
11,100.00	6,083.00	10,624.00	6,231.41	97.75	121.87	91.99	872.38	2,777.08	5,414.23	5,255.77	158.46	34.169		
11,200.00	6,083.00	10,624.00	6,231.41	99.48	121.87	91.99	872.38	2,777.08	5,498.31	5,339.09	159.22	34.532		
11,300.00	6,083.00	10,624.00	6,231.41	101.21	121.87	91.99	872.38	2,777.08	5,582.92	5,422.96	159.96	34.902		
11,400.00	6,083.00	10,624.00	6,231.41	102.94	121.87	91.99	872.38	2,777.08	5,668.03	5,507.37	160.66	35.280		
11,500.00	6,083.00	10,624.00	6,231.41	104.67	121.87	91.99	872.38	2,777.08	5,753.61	5,592.29	161.33	35.665		
11,600.00	6,083.00	10,624.00	6,231.41	106.41	121.87	91.99	872.38	2,777.08	5,839.66	5,677.69	161.96	36.055		
11,700.00	6,083.00	10,624.00	6,231.41	108.15	121.87	91.99	872.38	2,777.08	5,926.14	5,763.57	162.57	36.452		
11,800.00	6,083.00	10,624.00	6,231.41	109.88	121.87	91.99	872.38	2,777.08	6,013.04	5,849.89	163.16	36.855		
11,900.00	6,083.00	10,624.00	6,231.41	111.62	121.87	91.99	872.38	2,777.08	6,100.35	5,936.63	163.71	37.262		
12,000.00	6,083.00	10,624.00	6,231.41	113.36	121.87	91.99	872.38	2,777.08	6,188.03	6,023.79	164.25	37.675		
12,100.00	6,083.00	10,624.00	6,231.41	115.10	121.87	91.99	872.38	2,777.08	6,276.09	6,111.33	164.76	38.093		
12,200.00	6,083.00	10,624.00	6,231.41	116.85	121.87	91.99	872.38	2,777.08	6,364.50	6,199.25	165.25	38.515		
12,300.00	6,083.00	10,624.00	6,231.41	118.59	121.87	91.99	872.38	2,777.08	6,453.25	6,287.53	165.72	38.942		
12,400.00	6,083.00	10,624.00	6,231.41	120.33	121.87	91.99	872.38	2,777.08	6,542.32	6,376.15	166.17	39.372		
12,500.00	6,083.00	10,624.00	6,231.41	122.08	121.87	91.99	872.38	2,777.08	6,631.70	6,465.11	166.60	39.807		
12,600.00	6,083.00	10,624.00	6,231.41	123.82	121.87	91.99	872.38	2,777.08	6,721.39	6,554.38	167.01	40.245		
12,700.00	6,083.00	10,624.00	6,231.41	125.57	121.87	91.99	872.38	2,777.08	6,811.36	6,643.95	167.41	40.687		
12,800.00	6,083.00	10,624.00	6,231.41	127.32	121.87	91.99	872.38	2,777.08	6,901.60	6,733.81	167.79	41.132		
12,900.00	6,083.00	10,624.00	6,231.41	129.07	121.87	91.99	872.38	2,777.08	6,992.12	6,823.95	168.16	41.580		
13,000.00	6,083.00	10,624.00	6,231.41	130.81	121.87	91.99	872.38	2,777.08	7,082.88	6,914.37	168.52	42.031		
13,100.00	6,083.00	10,624.00	6,231.41	132.56	121.87	91.99	872.38	2,777.08	7,173.89	7,005.04	168.86	42.485		
13,200.00	6,083.00	10,624.00	6,231.41	134.31	121.87	91.99	872.38	2,777.08	7,265.14	7,095.96	169.19	42.942		
13,300.00	6,083.00	10,624.00	6,231.41	136.06	121.87	91.99	872.38	2,777.08	7,356.62	7,187.12	169.50	43.401		
13,400.00	6,083.00	10,624.00	6,231.41	137.81	121.87	91.99	872.38	2,777.08	7,448.32	7,278.51	169.81	43.863		
13,500.00	6,083.00	10,624.00	6,231.41	139.57	121.87	91.99	872.38	2,777.08	7,540.22	7,370.12	170.10	44.328		
13,600.00	6,083.00	10,624.00	6,231.41	141.32	121.87	91.99	872.38	2,777.08	7,632.33	7,461.95	170.39	44.794		
13,700.00	6,083.00	10,624.00	6,231.41	143.07	121.87	91.99	872.38	2,777.08	7,724.64	7,553.98	170.66	45.263		
13,800.00	6,083.00	10,624.00	6,231.41	144.82	121.87	91.99	872.38	2,777.08	7,817.13	7,646.21	170.93	45.734		
13,900.00	6,083.00	10,624.00	6,231.41	146.58	121.87	91.99	872.38	2,777.08	7,909.81	7,738.63	171.18	46.206		
14,000.00	6,083.00	10,624.00	6,231.41	148.33	121.87	91.99	872.38	2,777.08	8,002.67	7,831.23	171.43	46.681		
14,100.00	6,083.00	10,624.00	6,231.41	150.09	121.87	91.99	872.38	2,777.08	8,095.69	7,924.02	171.67	47.158		
14,200.00	6,083.00	10,624.00	6,231.41	151.84	121.87	91.99	872.38	2,777.08	8,188.88	8,016.97	171.91	47.636		
14,300.00	6,083.00	10,624.00	6,231.41	153.60	121.87	91.99	872.38	2,777.08	8,282.23	8,110.10	172.13	48.115		
14,400.00	6,083.00	10,624.00	6,231.41	155.35	121.87	91.99	872.38	2,777.08	8,375.73	8,203.38	172.35	48.597		
14,500.00	6,083.00	10,624.00	6,231.41	157.11	121.87	91.99	872.38	2,777.08	8,469.38	8,296.82	172.56	49.080		
14,600.00	6,083.00	10,624.00	6,231.41	158.87	121.87	91.99	872.38	2,777.08	8,563.17	8,390.40	172.77	49.564		
14,700.00	6,083.00	10,624.00	6,231.41	160.62	121.87	91.99	872.38	2,777.08	8,657.11	8,484.14	172.97	50.050		
14,800.00	6,083.00	10,624.00	6,231.41	162.38	121.87	91.99	872.38	2,777.08	8,751.17	8,578.01	173.17	50.537		
14,900.00	6,083.00	10,624.00	6,231.41	164.14	121.87	91.99	872.38	2,777.08	8,845.37	8,672.02	173.35	51.025		
15,000.00	6,083.00	10,624.00	6,231.41	165.90	121.87	91.99	872.38	2,777.08	8,939.69	8,766.15	173.54	51.514		
15,100.00	6,083.00	10,624.00	6,231.41	167.66	121.87	91.99	872.38	2,777.08	9,034.14	8,860.42	173.72	52.005		
15,200.00	6,083.00	10,624.00	6,231.41	169.42	121.87	91.99	872.38	2,777.08	9,128.70	8,954.81	173.89	52.496		
15,300.00	6,083.00	10,624.00	6,231.41	171.17	121.87	91.99	872.38	2,777.08	9,223.38	9,049.32	174.06	52.989		
15,400.00	6,083.00	10,624.00	6,231.41	172.93	121.87	91.99	872.38	2,777.08	9,318.17	9,143.94	174.23	53.483		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 ESTERLING 44-33H - OWB - FINAL SURVEY												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 146-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	6,083.00	10,624.00	6,231.41	174.69	121.87	91.99	872.38	2,777.08	9,413.07	9,238.68	174.39	53.977	
15,600.00	6,083.00	10,624.00	6,231.41	176.45	121.87	91.99	872.38	2,777.08	9,508.07	9,333.52	174.55	54.473	
15,700.00	6,083.00	10,624.00	6,231.41	178.21	121.87	91.99	872.38	2,777.08	9,603.17	9,428.47	174.70	54.969	
15,800.00	6,083.00	10,624.00	6,231.41	179.98	121.87	91.99	872.38	2,777.08	9,698.37	9,523.52	174.85	55.466	
15,900.00	6,083.00	10,624.00	6,231.41	181.74	121.87	91.99	872.38	2,777.08	9,793.67	9,618.67	175.00	55.964	
16,000.00	6,083.00	10,624.00	6,231.41	183.50	121.87	91.99	872.38	2,777.08	9,889.06	9,713.92	175.14	56.463	
16,013.13	6,083.00	10,624.00	6,231.41	183.73	121.87	91.99	872.38	2,777.08	9,901.60	9,724.68	176.92	55.966	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
100.00	100.00	30.15	30.15	0.27	0.05	-89.62	18.73	-2,799.28	2,799.34	2,799.02	0.32	8,711.995		
200.00	200.00	134.12	134.12	0.63	0.23	-89.62	18.74	-2,799.16	2,799.23	2,798.37	0.86	3,252.253		
300.00	300.00	238.09	238.09	0.99	0.41	-89.62	18.75	-2,798.90	2,798.98	2,797.58	1.40	1,999.163		
400.00	400.00	342.06	342.06	1.34	0.60	-89.62	18.77	-2,798.49	2,798.58	2,796.64	1.94	1,442.991		
500.00	499.98	446.00	445.99	1.70	0.78	-45.26	18.80	-2,797.93	2,796.82	2,794.34	2.48	1,129.251		
600.00	599.88	551.43	551.42	2.06	1.03	-45.34	18.86	-2,797.20	2,793.06	2,789.97	3.09	903.562		
700.00	699.78	659.50	659.49	2.42	1.42	-45.40	19.20	-2,796.17	2,788.95	2,785.11	3.83	727.300		
800.00	799.68	748.92	748.90	2.78	1.74	-45.45	19.66	-2,795.33	2,784.86	2,780.35	4.51	617.419		
900.00	899.58	841.47	841.45	3.14	2.07	-45.50	20.18	-2,794.84	2,781.17	2,775.97	5.20	534.990		
1,000.00	999.48	952.13	952.10	3.50	2.46	-45.56	20.76	-2,794.11	2,777.36	2,771.41	5.95	466.601		
1,100.00	1,099.38	1,036.87	1,036.85	3.87	2.76	-45.61	21.13	-2,793.52	2,773.54	2,766.93	6.61	419.798		
1,200.00	1,199.28	1,131.00	1,130.97	4.23	3.08	-45.67	21.40	-2,793.69	2,770.55	2,763.26	7.29	379.996		
1,300.00	1,299.18	1,221.56	1,221.53	4.59	3.39	-45.72	21.67	-2,794.11	2,767.83	2,759.86	7.96	347.593		
1,400.00	1,399.08	1,325.04	1,325.01	4.96	3.75	-45.78	22.16	-2,794.17	2,764.75	2,756.07	8.68	318.496		
1,500.00	1,498.97	1,413.91	1,413.88	5.32	4.06	-45.83	22.52	-2,794.45	2,761.92	2,752.57	9.35	295.380		
1,600.00	1,598.87	1,525.88	1,525.85	5.69	4.45	-45.90	22.78	-2,794.90	2,759.20	2,749.10	10.10	273.182		
1,700.00	1,698.77	1,633.43	1,633.39	6.05	4.82	-45.98	22.78	-2,794.69	2,755.87	2,745.04	10.83	254.369		
1,800.00	1,798.67	1,724.79	1,724.75	6.42	5.14	-46.04	22.76	-2,794.65	2,752.70	2,741.18	11.51	239.122		
1,900.00	1,898.57	1,831.23	1,831.19	6.78	5.50	-46.11	22.62	-2,794.69	2,749.62	2,737.38	12.24	224.667		
2,000.00	1,998.47	1,938.72	1,938.69	7.15	5.87	-46.20	22.06	-2,794.36	2,746.20	2,733.23	12.97	211.730		
2,100.00	2,098.37	2,041.37	2,041.33	7.51	6.23	-46.28	21.39	-2,793.88	2,742.63	2,728.94	13.69	200.367		
2,200.00	2,198.27	2,129.89	2,129.85	7.87	6.54	-46.36	20.54	-2,793.58	2,739.19	2,724.84	14.36	190.788		
2,300.00	2,298.17	2,219.77	2,219.72	8.24	6.85	-46.45	19.06	-2,793.69	2,736.23	2,721.20	15.03	182.037		
2,400.00	2,398.06	2,328.94	2,328.87	8.60	7.23	-46.56	17.42	-2,793.77	2,733.24	2,717.46	15.77	173.303		
2,500.00	2,497.96	2,437.38	2,437.31	8.97	7.61	-46.66	16.36	-2,793.51	2,729.92	2,713.41	16.51	165.329		
2,600.00	2,597.86	2,541.84	2,541.76	9.33	7.98	-46.74	15.62	-2,792.97	2,726.32	2,709.08	17.24	158.135		
2,700.00	2,697.76	2,638.71	2,638.63	9.70	8.32	-46.82	14.94	-2,792.48	2,722.75	2,704.81	17.94	151.734		
2,800.00	2,797.66	2,732.96	2,732.88	10.06	8.65	-46.90	14.43	-2,792.14	2,719.33	2,700.70	18.64	145.914		
2,900.00	2,897.56	2,828.33	2,828.25	10.43	8.98	-46.96	14.63	-2,792.04	2,716.15	2,696.82	19.33	140.502		
3,000.00	2,997.46	2,946.34	2,946.24	10.79	9.39	-47.01	16.45	-2,791.62	2,712.68	2,692.58	20.10	134.946		
3,100.00	3,097.36	3,040.70	3,040.57	11.16	9.72	-47.02	18.80	-2,790.98	2,708.88	2,688.09	20.79	130.277		
3,200.00	3,197.25	3,131.00	3,130.86	11.52	10.04	-47.06	20.11	-2,790.76	2,705.54	2,684.07	21.47	126.008		
3,300.00	3,297.15	3,232.07	3,231.92	11.89	10.39	-47.11	21.03	-2,790.67	2,702.36	2,680.17	22.19	121.802		
3,400.00	3,397.05	3,327.51	3,327.35	12.25	10.72	-47.16	22.02	-2,790.47	2,699.07	2,676.18	22.88	117.953		
3,500.00	3,496.95	3,411.77	3,411.60	12.62	11.02	-47.19	23.19	-2,790.71	2,696.25	2,672.71	23.54	114.538		
3,600.00	3,596.85	3,516.87	3,516.69	12.98	11.39	-47.23	24.85	-2,791.36	2,693.77	2,669.50	24.27	110.994		
3,700.00	3,696.75	3,629.56	3,629.38	13.35	11.78	-47.28	26.04	-2,791.45	2,690.76	2,665.74	25.03	107.521		
3,800.00	3,796.65	3,731.91	3,731.72	13.72	12.14	-47.32	27.40	-2,791.30	2,687.53	2,661.78	25.75	104.381		
3,900.00	3,896.55	3,845.48	3,845.27	14.08	12.54	-47.36	29.58	-2,790.87	2,684.05	2,657.54	26.51	101.254		
4,000.00	3,996.45	3,952.41	3,952.16	14.45	12.92	-47.38	32.24	-2,789.92	2,680.03	2,652.79	27.25	98.362		
4,100.00	4,096.34	4,046.70	4,046.42	14.81	13.25	-47.39	34.66	-2,789.15	2,676.10	2,648.15	27.94	95.769		
4,200.00	4,196.24	4,145.37	4,145.06	15.18	13.60	-47.41	36.94	-2,788.48	2,672.30	2,643.65	28.65	93.258		
4,300.00	4,296.14	4,254.28	4,253.95	15.54	13.99	-47.46	38.65	-2,787.68	2,668.48	2,639.08	29.40	90.762		
4,400.00	4,396.04	4,394.69	4,394.33	15.91	14.49	-47.54	39.64	-2,785.12	2,663.60	2,633.35	30.25	88.059		
4,500.00	4,495.94	4,456.30	4,455.93	16.27	14.70	-47.58	39.68	-2,784.13	2,658.85	2,628.01	30.83	86.231		
4,600.00	4,595.84	4,536.00	4,535.63	16.64	14.98	-47.64	39.45	-2,783.71	2,655.25	2,623.77	31.48	84.356		
4,700.00	4,695.74	4,615.45	4,615.08	17.00	15.25	-47.71	39.22	-2,783.91	2,652.41	2,620.30	32.11	82.591		
4,800.00	4,795.64	4,692.00	4,691.63	17.37	15.51	-47.76	39.34	-2,784.27	2,649.94	2,617.19	32.74	80.935		
4,900.00	4,895.54	4,783.97	4,783.59	17.73	15.83	-47.81	39.93	-2,785.27	2,648.00	2,614.58	33.42	79.228		
5,000.00	4,995.43	4,868.90	4,868.49	18.10	16.13	-47.85	40.90	-2,786.97	2,646.92	2,612.84	34.08	77.672		
5,100.00	5,095.33	4,981.82	4,981.39	18.46	16.52	-47.92	41.41	-2,789.10	2,645.77	2,610.94	34.83	75.959		
5,200.00	5,195.23	5,092.94	5,092.51	18.83	16.90	-48.00	41.17	-2,790.65	2,644.16	2,608.58	35.58	74.320		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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				
5,300.00	5,295.13	5,201.30	5,200.86	19.19	17.28	-48.07	41.46	-2,791.77	2,642.16	2,605.85	36.32	72.757				
5,400.00	5,395.03	5,306.00	5,305.56	19.56	17.64	-48.14	41.70	-2,792.61	2,639.95	2,602.91	37.04	71.271				
5,500.00	5,494.93	5,412.00	5,411.55	19.92	18.01	-48.22	41.69	-2,793.23	2,637.54	2,599.77	37.77	69.833				
5,600.00	5,594.56	5,510.00	5,509.55	20.29	18.35	-81.03	41.35	-2,793.60	2,635.14	2,596.66	38.48	68.486				
5,687.79	5,680.02	5,575.00	5,574.54	20.64	18.57	-87.48	40.56	-2,794.01	2,634.17	2,595.12	39.05	67.456	CC			
5,700.00	5,691.64	5,582.83	5,582.37	20.69	18.60	-87.93	40.23	-2,794.10	2,634.19	2,595.06	39.13	67.327				
5,800.00	5,783.21	5,762.00	5,755.39	21.10	19.20	-92.15	-1.59	-2,791.27	2,634.66	2,594.51	40.15	65.620	ES			
5,900.00	5,866.49	5,785.83	5,776.92	21.55	19.28	-93.21	-11.74	-2,790.22	2,637.48	2,596.75	40.73	64.762				
6,000.00	5,938.95	5,823.49	5,809.94	22.06	19.40	-93.69	-29.73	-2,788.32	2,645.35	2,603.95	41.40	63.901				
6,100.00	5,998.39	5,833.65	5,818.67	22.64	19.44	-92.87	-34.90	-2,787.74	2,658.57	2,616.53	42.04	63.246				
6,200.00	6,043.00	5,824.00	5,810.39	23.31	19.41	-90.98	-29.98	-2,788.29	2,676.94	2,634.28	42.66	62.746				
6,300.00	6,071.42	5,810.72	5,798.89	24.06	19.36	-88.46	-23.37	-2,789.03	2,699.69	2,656.34	43.34	62.288				
6,400.00	6,082.79	5,793.00	5,783.30	24.89	19.30	-85.44	-14.99	-2,789.90	2,725.73	2,681.67	44.06	61.866				
6,500.00	6,083.00	5,762.00	5,755.39	25.78	19.20	-84.39	-1.59	-2,791.27	2,754.45	2,709.68	44.77	61.527				
6,600.00	6,083.00	5,762.00	5,755.39	26.77	19.20	-84.39	-1.59	-2,791.27	2,786.24	2,740.58	45.66	61.024				
6,700.00	6,083.00	5,745.02	5,739.77	27.83	19.14	-84.06	5.03	-2,792.05	2,821.01	2,774.50	46.51	60.656				
6,800.00	6,083.00	5,730.00	5,725.79	28.96	19.09	-83.75	10.47	-2,792.83	2,858.79	2,811.41	47.39	60.329				
6,900.00	6,083.00	5,721.24	5,717.57	30.15	19.07	-83.58	13.46	-2,793.28	2,899.36	2,851.07	48.30	60.031				
7,000.00	6,083.00	5,701.00	5,698.39	31.40	19.00	-83.17	19.87	-2,794.11	2,942.56	2,893.40	49.16	59.857				
7,100.00	6,083.00	5,682.26	5,680.42	32.70	18.94	-82.78	25.14	-2,794.59	2,988.29	2,938.28	50.02	59.744				
7,200.00	6,083.00	5,669.00	5,667.58	34.04	18.89	-82.50	28.47	-2,794.76	3,036.50	2,985.62	50.88	59.676				
7,300.00	6,083.00	5,669.00	5,667.58	35.42	18.89	-82.50	28.47	-2,794.76	3,087.14	3,035.36	51.78	59.616	SF			
7,400.00	6,083.00	5,656.87	5,655.76	36.83	18.85	-82.25	31.18	-2,794.81	3,140.06	3,087.45	52.61	59.689				
7,500.00	6,083.00	5,651.93	5,650.93	38.27	18.83	-82.15	32.18	-2,794.82	3,195.22	3,141.79	53.43	59.798				
7,600.00	6,083.00	5,638.00	5,637.22	39.74	18.79	-81.85	34.67	-2,794.75	3,252.56	3,198.37	54.19	60.020				
7,700.00	6,083.00	5,638.00	5,637.22	41.23	18.79	-81.85	34.67	-2,794.75	3,311.80	3,256.82	54.98	60.238				
7,800.00	6,083.00	5,638.00	5,637.22	42.75	18.79	-81.85	34.67	-2,794.75	3,372.96	3,317.23	55.73	60.519				
7,900.00	6,083.00	5,638.00	5,637.22	44.28	18.79	-81.85	34.67	-2,794.75	3,435.95	3,379.49	56.46	60.859				
8,000.00	6,083.00	5,638.00	5,637.22	45.83	18.79	-81.85	34.67	-2,794.75	3,500.66	3,443.51	57.15	61.255				
8,100.00	6,083.00	5,638.00	5,637.22	47.40	18.79	-81.85	34.67	-2,794.75	3,567.00	3,509.19	57.81	61.703				
8,200.00	6,083.00	5,638.00	5,637.22	48.98	18.79	-81.85	34.67	-2,794.75	3,634.88	3,576.44	58.44	62.200				
8,300.00	6,083.00	5,638.00	5,637.22	50.57	18.79	-81.85	34.67	-2,794.75	3,704.22	3,645.18	59.04	62.743				
8,400.00	6,083.00	5,638.00	5,637.22	52.18	18.79	-81.85	34.67	-2,794.75	3,774.93	3,715.32	59.61	63.328				
8,500.00	6,083.00	5,623.67	5,623.04	53.79	18.74	-81.55	36.75	-2,794.60	3,846.75	3,786.66	60.10	64.011				
8,600.00	6,083.00	5,621.93	5,621.32	55.42	18.73	-81.51	36.97	-2,794.59	3,919.94	3,859.34	60.61	64.679				
8,700.00	6,083.00	5,607.00	5,606.47	57.05	18.68	-81.19	38.56	-2,794.40	3,994.46	3,933.42	61.04	65.444				
8,800.00	6,083.00	5,607.00	5,606.47	58.70	18.68	-81.19	38.56	-2,794.40	4,069.86	4,008.36	61.51	66.170				
8,900.00	6,083.00	5,607.00	5,606.47	60.35	18.68	-81.19	38.56	-2,794.40	4,146.31	4,084.36	61.95	66.927				
9,000.00	6,083.00	5,607.00	5,606.47	62.00	18.68	-81.19	38.56	-2,794.40	4,223.74	4,161.36	62.38	67.712				
9,100.00	6,083.00	5,607.00	5,606.47	63.66	18.68	-81.19	38.56	-2,794.40	4,302.10	4,239.32	62.78	68.523				
9,200.00	6,083.00	5,607.00	5,606.47	65.33	18.68	-81.19	38.56	-2,794.40	4,381.34	4,318.18	63.17	69.360				
9,300.00	6,083.00	5,607.00	5,606.47	67.01	18.68	-81.19	38.56	-2,794.40	4,461.42	4,397.88	63.54	70.219				
9,400.00	6,083.00	5,607.00	5,606.47	68.69	18.68	-81.19	38.56	-2,794.40	4,542.29	4,478.40	63.89	71.101				
9,500.00	6,083.00	5,607.00	5,606.47	70.37	18.68	-81.19	38.56	-2,794.40	4,623.90	4,559.68	64.22	72.002				
9,600.00	6,083.00	5,607.00	5,606.47	72.06	18.68	-81.19	38.56	-2,794.40	4,706.22	4,641.69	64.54	72.923				
9,700.00	6,083.00	5,607.00	5,606.47	73.75	18.68	-81.19	38.56	-2,794.40	4,789.22	4,724.38	64.84	73.862				
9,800.00	6,083.00	5,607.00	5,606.47	75.45	18.68	-81.19	38.56	-2,794.40	4,872.86	4,807.73	65.13	74.817				
9,900.00	6,083.00	5,607.00	5,606.47	77.15	18.68	-81.19	38.56	-2,794.40	4,957.10	4,891.69	65.41	75.788				
10,000.00	6,083.00	5,607.00	5,606.47	78.85	18.68	-81.19	38.56	-2,794.40	5,041.92	4,976.25	65.67	76.774				
10,100.00	6,083.00	5,607.00	5,606.47	80.56	18.68	-81.19	38.56	-2,794.40	5,127.28	5,061.36	65.93	77.774				
10,200.00	6,083.00	5,607.00	5,606.47	82.26	18.68	-81.19	38.56	-2,794.40	5,213.17	5,147.00	66.17	78.786				
10,300.00	6,083.00	5,607.00	5,606.47	83.98	18.68	-81.19	38.56	-2,794.40	5,299.55	5,233.15	66.40	79.811				

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,400.00	6,083.00	5,607.00	5,606.47	85.69	18.68	-81.19	38.56	-2,794.40	5,386.40	5,319.78	66.62	80.848		
10,500.00	6,083.00	5,607.00	5,606.47	87.41	18.68	-81.19	38.56	-2,794.40	5,473.70	5,406.86	66.84	81.895		
10,600.00	6,083.00	5,607.00	5,606.47	89.12	18.68	-81.19	38.56	-2,794.40	5,561.43	5,494.39	67.04	82.953		
10,700.00	6,083.00	5,607.00	5,606.47	90.85	18.68	-81.19	38.56	-2,794.40	5,649.57	5,582.33	67.24	84.020		
10,800.00	6,083.00	5,607.00	5,606.47	92.57	18.68	-81.19	38.56	-2,794.40	5,738.09	5,670.66	67.43	85.096		
10,900.00	6,083.00	5,607.00	5,606.47	94.29	18.68	-81.19	38.56	-2,794.40	5,826.99	5,759.37	67.61	86.180		
11,000.00	6,083.00	5,607.00	5,606.47	96.02	18.68	-81.19	38.56	-2,794.40	5,916.24	5,848.45	67.79	87.273		
11,100.00	6,083.00	5,607.00	5,606.47	97.75	18.68	-81.19	38.56	-2,794.40	6,005.83	5,937.87	67.96	88.373		
11,200.00	6,083.00	5,607.00	5,606.47	99.48	18.68	-81.19	38.56	-2,794.40	6,095.74	6,027.62	68.12	89.481		
11,300.00	6,083.00	5,607.00	5,606.47	101.21	18.68	-81.19	38.56	-2,794.40	6,185.97	6,117.68	68.28	90.595		
11,400.00	6,083.00	5,607.00	5,606.47	102.94	18.68	-81.19	38.56	-2,794.40	6,276.48	6,208.05	68.43	91.715		
11,500.00	6,083.00	5,607.00	5,606.47	104.67	18.68	-81.19	38.56	-2,794.40	6,367.29	6,298.71	68.58	92.841		
11,600.00	6,083.00	5,607.00	5,606.47	106.41	18.68	-81.19	38.56	-2,794.40	6,458.36	6,389.64	68.73	93.973		
11,700.00	6,083.00	5,592.37	5,591.89	108.15	18.63	-80.88	39.69	-2,794.21	6,549.51	6,480.70	68.81	95.182		
11,800.00	6,083.00	5,591.81	5,591.33	109.88	18.63	-80.87	39.73	-2,794.21	6,641.08	6,572.14	68.94	96.327		
11,900.00	6,083.00	5,591.27	5,590.79	111.62	18.63	-80.86	39.76	-2,794.20	6,732.89	6,663.82	69.07	97.477		
12,000.00	6,083.00	5,590.75	5,590.27	113.36	18.62	-80.84	39.79	-2,794.19	6,824.93	6,755.73	69.20	98.631		
12,100.00	6,083.00	5,590.24	5,589.76	115.10	18.62	-80.83	39.83	-2,794.19	6,917.19	6,847.87	69.32	99.790		
12,200.00	6,083.00	5,589.74	5,589.27	116.85	18.62	-80.82	39.86	-2,794.18	7,009.66	6,940.23	69.44	100.952		
12,300.00	6,083.00	5,575.00	5,574.54	118.59	18.57	-80.51	40.56	-2,794.01	7,102.52	7,033.02	69.50	102.198		
12,400.00	6,083.00	5,575.00	5,574.54	120.33	18.57	-80.51	40.56	-2,794.01	7,195.38	7,125.76	69.61	103.365		
12,500.00	6,083.00	5,575.00	5,574.54	122.08	18.57	-80.51	40.56	-2,794.01	7,288.42	7,218.70	69.72	104.536		
12,600.00	6,083.00	5,575.00	5,574.54	123.82	18.57	-80.51	40.56	-2,794.01	7,381.65	7,311.82	69.83	105.709		
12,700.00	6,083.00	5,575.00	5,574.54	125.57	18.57	-80.51	40.56	-2,794.01	7,475.06	7,405.12	69.94	106.885		
12,800.00	6,083.00	5,575.00	5,574.54	127.32	18.57	-80.51	40.56	-2,794.01	7,568.63	7,498.59	70.04	108.064		
12,900.00	6,083.00	5,575.00	5,574.54	129.07	18.57	-80.51	40.56	-2,794.01	7,662.37	7,592.23	70.14	109.246		
13,000.00	6,083.00	5,575.00	5,574.54	130.81	18.57	-80.51	40.56	-2,794.01	7,756.26	7,686.02	70.24	110.429		
13,100.00	6,083.00	5,575.00	5,574.54	132.56	18.57	-80.51	40.56	-2,794.01	7,850.31	7,779.97	70.33	111.615		
13,200.00	6,083.00	5,575.00	5,574.54	134.31	18.57	-80.51	40.56	-2,794.01	7,944.49	7,874.07	70.43	112.803		
13,300.00	6,083.00	5,575.00	5,574.54	136.06	18.57	-80.51	40.56	-2,794.01	8,038.82	7,968.30	70.52	113.992		
13,400.00	6,083.00	5,575.00	5,574.54	137.81	18.57	-80.51	40.56	-2,794.01	8,133.29	8,062.68	70.61	115.183		
13,500.00	6,083.00	5,575.00	5,574.54	139.57	18.57	-80.51	40.56	-2,794.01	8,227.88	8,157.18	70.70	116.376		
13,600.00	6,083.00	5,575.00	5,574.54	141.32	18.57	-80.51	40.56	-2,794.01	8,322.61	8,251.82	70.79	117.570		
13,700.00	6,083.00	5,575.00	5,574.54	143.07	18.57	-80.51	40.56	-2,794.01	8,417.45	8,346.58	70.87	118.766		
13,800.00	6,083.00	5,575.00	5,574.54	144.82	18.57	-80.51	40.56	-2,794.01	8,512.41	8,441.45	70.96	119.963		
13,900.00	6,083.00	5,575.00	5,574.54	146.58	18.57	-80.51	40.56	-2,794.01	8,607.49	8,536.45	71.04	121.160		
14,000.00	6,083.00	5,575.00	5,574.54	148.33	18.57	-80.51	40.56	-2,794.01	8,702.68	8,631.55	71.12	122.359		
14,100.00	6,083.00	5,575.00	5,574.54	150.09	18.57	-80.51	40.56	-2,794.01	8,797.97	8,726.76	71.20	123.559		
14,200.00	6,083.00	5,575.00	5,574.54	151.84	18.57	-80.51	40.56	-2,794.01	8,893.37	8,822.08	71.28	124.759		
14,300.00	6,083.00	5,575.00	5,574.54	153.60	18.57	-80.51	40.56	-2,794.01	8,988.86	8,917.50	71.36	125.960		
14,400.00	6,083.00	5,575.00	5,574.54	155.35	18.57	-80.51	40.56	-2,794.01	9,084.46	9,013.02	71.44	127.161		
14,500.00	6,083.00	5,575.00	5,574.54	157.11	18.57	-80.51	40.56	-2,794.01	9,180.14	9,108.63	71.52	128.363		
14,600.00	6,083.00	5,575.00	5,574.54	158.87	18.57	-80.51	40.56	-2,794.01	9,275.92	9,204.33	71.59	129.566		
14,700.00	6,083.00	5,575.00	5,574.54	160.62	18.57	-80.51	40.56	-2,794.01	9,371.79	9,300.12	71.67	130.768		
14,800.00	6,083.00	5,575.00	5,574.54	162.38	18.57	-80.51	40.56	-2,794.01	9,467.74	9,396.00	71.74	131.971		
14,900.00	6,083.00	5,575.00	5,574.54	164.14	18.57	-80.51	40.56	-2,794.01	9,563.78	9,491.96	71.81	133.174		
15,000.00	6,083.00	5,575.00	5,574.54	165.90	18.57	-80.51	40.56	-2,794.01	9,659.89	9,588.01	71.89	134.377		
15,100.00	6,083.00	5,575.00	5,574.54	167.66	18.57	-80.51	40.56	-2,794.01	9,756.09	9,684.13	71.96	135.580		
15,200.00	6,083.00	5,575.00	5,574.54	169.42	18.57	-80.51	40.56	-2,794.01	9,852.36	9,780.33	72.03	136.783		
15,300.00	6,083.00	5,575.00	5,574.54	171.17	18.57	-80.51	40.56	-2,794.01	9,948.70	9,876.60	72.10	137.985		
15,400.00	6,083.00	5,575.00	5,574.54	172.93	18.57	-80.51	40.56	-2,794.01	10,045.11	9,972.94	72.17	139.188		

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 PRONGHORN K-5 FED 32N-20-05
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4684.00usft
Reference Site:	SEC 5-T5N-R61W	MD Reference:	KB 25' @ 4684.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PRONGHORN K-5 FED 32N-20-05	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 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	76.00	76.00	0.27	0.13	142.79	-4,666.23	3,542.65	5,858.68	5,858.28	0.40	N/A		
200.00	200.00	176.00	176.00	0.63	0.30	142.79	-4,666.23	3,542.65	5,858.68	5,857.75	0.93	6,290.713		
300.00	300.00	276.00	276.00	0.99	0.48	142.79	-4,666.23	3,542.65	5,858.68	5,857.21	1.46	4,005.883		
400.00	400.00	376.00	376.00	1.34	0.65	142.79	-4,666.23	3,542.65	5,858.68	5,856.68	1.99	2,938.573		
500.00	499.98	487.13	487.13	1.70	0.88	-172.80	-4,666.21	3,542.65	5,860.40	5,857.82	2.58	2,273.173		
600.00	599.88	928.00	926.95	2.06	2.47	-172.63	-4,666.92	3,518.73	5,861.36	5,856.85	4.51	1,299.767		
700.00	699.78	967.65	966.22	2.42	2.62	-172.58	-4,668.12	3,513.41	5,860.26	5,855.24	5.02	1,167.077		
742.44	742.18	981.04	979.48	2.57	2.68	-172.56	-4,668.72	3,511.58	5,860.15	5,854.93	5.23	1,121.362		
800.00	799.68	1,021.00	1,018.98	2.78	2.83	-172.51	-4,671.05	3,506.03	5,860.47	5,854.89	5.59	1,048.840		
900.00	899.58	1,043.59	1,041.28	3.14	2.93	-172.47	-4,672.66	3,502.81	5,861.58	5,855.54	6.04	970.636		
1,000.00	999.48	10,762.00	6,125.90	3.50	84.61	142.35	-208.85	2,617.78	5,789.58	5,732.77	56.81	101.904		
1,100.00	1,099.38	10,762.00	6,125.90	3.87	84.61	142.35	-208.85	2,617.78	5,702.48	5,645.15	57.33	99.475		
1,200.00	1,199.28	10,762.00	6,125.90	4.23	84.61	142.35	-208.85	2,617.78	5,615.80	5,557.94	57.86	97.055		
1,300.00	1,299.18	10,762.00	6,125.90	4.59	84.61	142.35	-208.85	2,617.78	5,529.58	5,471.15	58.42	94.648		
1,400.00	1,399.08	10,762.00	6,125.90	4.96	84.61	142.35	-208.85	2,617.78	5,443.82	5,384.81	59.01	92.257		
1,500.00	1,498.97	10,762.00	6,125.90	5.32	84.61	142.35	-208.85	2,617.78	5,358.56	5,298.95	59.62	89.885		
1,600.00	1,598.87	10,762.00	6,125.90	5.69	84.61	142.35	-208.85	2,617.78	5,273.82	5,213.57	60.25	87.535		
1,700.00	1,698.77	10,762.00	6,125.90	6.05	84.61	142.35	-208.85	2,617.78	5,189.62	5,128.72	60.90	85.209		
1,800.00	1,798.67	10,762.00	6,125.90	6.42	84.61	142.35	-208.85	2,617.78	5,105.99	5,044.41	61.59	82.908		
1,900.00	1,898.57	10,762.00	6,125.90	6.78	84.61	142.35	-208.85	2,617.78	5,022.96	4,960.67	62.29	80.636		
2,000.00	1,998.47	10,762.00	6,125.90	7.15	84.61	142.35	-208.85	2,617.78	4,940.56	4,877.54	63.02	78.394		
2,100.00	2,098.37	10,762.00	6,125.90	7.51	84.61	142.35	-208.85	2,617.78	4,858.82	4,795.04	63.78	76.183		
2,200.00	2,198.27	10,762.00	6,125.90	7.87	84.61	142.35	-208.85	2,617.78	4,777.77	4,713.21	64.56	74.006		
2,300.00	2,298.17	10,762.00	6,125.90	8.24	84.61	142.35	-208.85	2,617.78	4,697.46	4,632.09	65.37	71.863		
2,400.00	2,398.06	10,762.00	6,125.90	8.60	84.61	142.35	-208.85	2,617.78	4,617.91	4,551.71	66.20	69.756		
2,500.00	2,497.96	10,762.00	6,125.90	8.97	84.61	142.35	-208.85	2,617.78	4,539.17	4,472.11	67.06	67.687		
2,600.00	2,597.86	10,762.00	6,125.90	9.33	84.61	142.35	-208.85	2,617.78	4,461.29	4,393.34	67.95	65.656		
2,700.00	2,697.76	10,762.00	6,125.90	9.70	84.61	142.35	-208.85	2,617.78	4,384.30	4,315.43	68.86	63.666		
2,800.00	2,797.66	10,762.00	6,125.90	10.06	84.61	142.35	-208.85	2,617.78	4,308.26	4,238.45	69.81	61.718		
2,900.00	2,897.56	10,762.00	6,125.90	10.43	84.61	142.35	-208.85	2,617.78	4,233.21	4,162.43	70.78	59.812		
3,000.00	2,997.46	10,762.00	6,125.90	10.79	84.61	142.35	-208.85	2,617.78	4,159.21	4,087.44	71.77	57.950		
3,100.00	3,097.36	10,762.00	6,125.90	11.16	84.61	142.35	-208.85	2,617.78	4,086.32	4,013.53	72.80	56.133		
3,200.00	3,197.25	10,762.00	6,125.90	11.52	84.61	142.35	-208.85	2,617.78	4,014.60	3,940.75	73.85	54.363		
3,300.00	3,297.15	10,762.00	6,125.90	11.89	84.61	142.35	-208.85	2,617.78	3,944.11	3,869.19	74.93	52.640		
3,400.00	3,397.05	10,762.00	6,125.90	12.25	84.61	142.35	-208.85	2,617.78	3,874.92	3,798.89	76.03	50.966		
3,500.00	3,496.95	10,762.00	6,125.90	12.62	84.61	142.35	-208.85	2,617.78	3,807.10	3,729.94	77.16	49.341		
3,600.00	3,596.85	10,762.00	6,125.90	12.98	84.61	142.35	-208.85	2,617.78	3,740.72	3,662.41	78.31	47.767		
3,700.00	3,696.75	10,762.00	6,125.90	13.35	84.61	142.35	-208.85	2,617.78	3,675.86	3,596.38	79.49	46.245		
3,800.00	3,796.65	10,762.00	6,125.90	13.72	84.61	142.35	-208.85	2,617.78	3,612.61	3,531.93	80.68	44.776		
3,900.00	3,896.55	10,762.00	6,125.90	14.08	84.61	142.35	-208.85	2,617.78	3,551.05	3,469.15	81.90	43.360		
4,000.00	3,996.45	10,762.00	6,125.90	14.45	84.61	142.35	-208.85	2,617.78	3,491.27	3,408.14	83.13	42.000		
4,100.00	4,096.34	10,762.00	6,125.90	14.81	84.61	142.35	-208.85	2,617.78	3,433.36	3,348.99	84.37	40.695		
4,200.00	4,196.24	10,762.00	6,125.90	15.18	84.61	142.35	-208.85	2,617.78	3,377.42	3,291.80	85.62	39.447		
4,300.00	4,296.14	10,762.00	6,125.90	15.54	84.61	142.35	-208.85	2,617.78	3,323.54	3,236.67	86.88	38.256		
4,400.00	4,396.04	10,762.00	6,125.90	15.91	84.61	142.35	-208.85	2,617.78	3,271.84	3,183.70	88.13	37.124		
4,500.00	4,495.94	10,762.00	6,125.90	16.27	84.61	142.35	-208.85	2,617.78	3,222.41	3,133.02	89.38	36.051		
4,600.00	4,595.84	10,762.00	6,125.90	16.64	84.61	142.35	-208.85	2,617.78	3,175.36	3,084.73	90.63	35.037		
4,700.00	4,695.74	10,762.00	6,125.90	17.00	84.61	142.35	-208.85	2,617.78	3,130.80	3,038.94	91.85	34.084		
4,800.00	4,795.64	10,762.00	6,125.90	17.37	84.61	142.35	-208.85	2,617.78	3,088.83	2,995.77	93.06	33.192		
4,900.00	4,895.54	10,762.00	6,125.90	17.73	84.61	142.35	-208.85	2,617.78	3,049.57	2,955.33	94.23	32.362		
5,000.00	4,995.43	10,762.00	6,125.90	18.10	84.61	142.35	-208.85	2,617.78	3,013.11	2,917.74	95.37	31.593		
5,100.00	5,095.33	10,762.00	6,125.90	18.46	84.61	142.35	-208.85	2,617.78	2,979.57	2,883.11	96.47	30.887		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
5,200.00	5,195.23	10,762.00	6,125.90	18.83	84.61	142.35	-208.85	2,617.78	2,949.04	2,851.53	97.51	30.244					
5,300.00	5,295.13	10,762.00	6,125.90	19.19	84.61	142.35	-208.85	2,617.78	2,921.61	2,823.12	98.49	29.663					
5,400.00	5,395.03	10,762.00	6,125.90	19.56	84.61	142.35	-208.85	2,617.78	2,897.38	2,797.97	99.41	29.146					
5,500.00	5,494.93	10,762.00	6,125.90	19.92	84.61	142.35	-208.85	2,617.78	2,876.42	2,776.17	100.25	28.691					
5,600.00	5,594.56	10,762.00	6,125.90	20.29	84.61	110.93	-208.85	2,617.78	2,859.34	2,758.35	100.99	28.312					
5,700.00	5,691.64	10,762.00	6,125.90	20.69	84.61	105.61	-208.85	2,617.78	2,848.19	2,746.65	101.54	28.051					
5,800.00	5,783.21	10,762.00	6,125.90	21.10	84.61	104.16	-208.85	2,617.78	2,843.49	2,741.62	101.87	27.913					
5,820.78	5,801.29	10,762.00	6,125.90	21.19	84.61	103.94	-208.85	2,617.78	2,843.35	2,741.43	101.92	27.899	CC, ES				
5,900.00	5,866.49	10,762.00	6,125.90	21.55	84.61	103.09	-208.85	2,617.78	2,845.44	2,743.44	102.00	27.896	SF				
6,000.00	5,938.95	10,762.00	6,125.90	22.06	84.61	101.75	-208.85	2,617.78	2,853.94	2,751.99	101.95	27.994					
6,100.00	5,998.39	10,762.00	6,125.90	22.64	84.61	99.98	-208.85	2,617.78	2,868.70	2,766.95	101.75	28.193					
6,200.00	6,043.00	10,762.00	6,125.90	23.31	84.61	97.73	-208.85	2,617.78	2,889.17	2,787.73	101.44	28.481					
6,300.00	6,071.42	10,762.00	6,125.90	24.06	84.61	95.01	-208.85	2,617.78	2,914.61	2,813.56	101.05	28.843					
6,400.00	6,082.79	10,762.00	6,125.90	24.89	84.61	91.88	-208.85	2,617.78	2,944.13	2,843.52	100.61	29.263					
6,500.00	6,083.00	10,762.00	6,125.90	25.78	84.61	91.37	-208.85	2,617.78	2,976.88	2,876.73	100.15	29.724					
6,600.00	6,083.00	10,762.00	6,125.90	26.77	84.61	91.37	-208.85	2,617.78	3,012.59	2,912.90	99.70	30.217					
6,700.00	6,083.00	10,762.00	6,125.90	27.83	84.61	91.37	-208.85	2,617.78	3,051.17	2,951.92	99.24	30.744					
6,800.00	6,083.00	10,762.00	6,125.90	28.96	84.61	91.37	-208.85	2,617.78	3,092.49	2,993.70	98.79	31.304					
6,900.00	6,083.00	10,762.00	6,125.90	30.15	84.61	91.37	-208.85	2,617.78	3,136.46	3,038.14	98.33	31.899					
7,000.00	6,083.00	10,762.00	6,125.90	31.40	84.61	91.37	-208.85	2,617.78	3,182.97	3,085.12	97.86	32.527					
7,100.00	6,083.00	10,762.00	6,125.90	32.70	84.61	91.37	-208.85	2,617.78	3,231.90	3,134.53	97.38	33.190					
7,200.00	6,083.00	10,762.00	6,125.90	34.04	84.61	91.37	-208.85	2,617.78	3,283.15	3,186.26	96.89	33.885					
7,300.00	6,083.00	10,762.00	6,125.90	35.42	84.61	91.37	-208.85	2,617.78	3,336.62	3,240.22	96.40	34.614					
7,400.00	6,083.00	10,762.00	6,125.90	36.83	84.61	91.37	-208.85	2,617.78	3,392.18	3,296.29	95.89	35.374					
7,500.00	6,083.00	10,762.00	6,125.90	38.27	84.61	91.37	-208.85	2,617.78	3,449.75	3,354.37	95.39	36.166					
7,600.00	6,083.00	10,762.00	6,125.90	39.74	84.61	91.37	-208.85	2,617.78	3,509.23	3,414.35	94.88	36.988					
7,700.00	6,083.00	10,762.00	6,125.90	41.23	84.61	91.37	-208.85	2,617.78	3,570.52	3,476.16	94.36	37.839					
7,800.00	6,083.00	10,762.00	6,125.90	42.75	84.61	91.37	-208.85	2,617.78	3,633.52	3,539.68	93.85	38.718					
7,900.00	6,083.00	10,762.00	6,125.90	44.28	84.61	91.37	-208.85	2,617.78	3,698.16	3,604.83	93.33	39.625					
8,000.00	6,083.00	10,762.00	6,125.90	45.83	84.61	91.37	-208.85	2,617.78	3,764.34	3,671.53	92.82	40.557					
8,100.00	6,083.00	10,762.00	6,125.90	47.40	84.61	91.37	-208.85	2,617.78	3,831.99	3,739.69	92.30	41.515					
8,200.00	6,083.00	10,762.00	6,125.90	48.98	84.61	91.37	-208.85	2,617.78	3,901.04	3,809.24	91.80	42.496					
8,300.00	6,083.00	10,762.00	6,125.90	50.57	84.61	91.37	-208.85	2,617.78	3,971.40	3,880.10	91.30	43.501					
8,400.00	6,083.00	10,762.00	6,125.90	52.18	84.61	91.37	-208.85	2,617.78	4,043.00	3,952.20	90.80	44.527					
8,500.00	6,083.00	10,762.00	6,125.90	53.79	84.61	91.37	-208.85	2,617.78	4,115.80	4,025.48	90.31	45.573					
8,600.00	6,083.00	10,762.00	6,125.90	55.42	84.61	91.37	-208.85	2,617.78	4,189.71	4,099.88	89.83	46.640					
8,700.00	6,083.00	10,762.00	6,125.90	57.05	84.61	91.37	-208.85	2,617.78	4,264.69	4,175.33	89.36	47.725					
8,800.00	6,083.00	10,762.00	6,125.90	58.70	84.61	91.37	-208.85	2,617.78	4,340.68	4,251.78	88.90	48.827					
8,900.00	6,083.00	10,762.00	6,125.90	60.35	84.61	91.37	-208.85	2,617.78	4,417.62	4,329.17	88.45	49.947					
9,000.00	6,083.00	10,762.00	6,125.90	62.00	84.61	91.37	-208.85	2,617.78	4,495.47	4,407.47	88.01	51.082					
9,100.00	6,083.00	10,762.00	6,125.90	63.66	84.61	91.37	-208.85	2,617.78	4,574.18	4,486.61	87.57	52.232					
9,200.00	6,083.00	10,762.00	6,125.90	65.33	84.61	91.37	-208.85	2,617.78	4,653.72	4,566.56	87.15	53.396					
9,300.00	6,083.00	10,762.00	6,125.90	67.01	84.61	91.37	-208.85	2,617.78	4,734.02	4,647.28	86.75	54.573					
9,400.00	6,083.00	10,762.00	6,125.90	68.69	84.61	91.37	-208.85	2,617.78	4,815.07	4,728.72	86.35	55.763					
9,500.00	6,083.00	10,762.00	6,125.90	70.37	84.61	91.37	-208.85	2,617.78	4,896.81	4,810.85	85.96	56.964					
9,600.00	6,083.00	10,762.00	6,125.90	72.06	84.61	91.37	-208.85	2,617.78	4,979.22	4,893.63	85.59	58.176					
9,700.00	6,083.00	10,762.00	6,125.90	73.75	84.61	91.37	-208.85	2,617.78	5,062.27	4,977.04	85.23	59.398					
9,800.00	6,083.00	10,762.00	6,125.90	75.45	84.61	91.37	-208.85	2,617.78	5,145.92	5,061.04	84.88	60.629					
9,900.00	6,083.00	10,762.00	6,125.90	77.15	84.61	91.37	-208.85	2,617.78	5,230.14	5,145.60	84.54	61.869					
10,000.00	6,083.00	10,762.00	6,125.90	78.85	84.61	91.37	-208.85	2,617.78	5,314.91	5,230.70	84.21	63.118					
10,100.00	6,083.00	10,762.00	6,125.90	80.56	84.61	91.37	-208.85	2,617.78	5,400.20	5,316.31	83.89	64.373					
10,200.00	6,083.00	10,762.00	6,125.90	82.26	84.61	91.37	-208.85	2,617.78	5,485.99	5,402.40	83.58	65.636					

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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	6,083.00	10,762.00	6,125.90	83.98	84.61	91.37	-208.85	2,617.78	5,572.25	5,488.96	83.29	66.905		
10,400.00	6,083.00	10,762.00	6,125.90	85.69	84.61	91.37	-208.85	2,617.78	5,658.96	5,575.96	83.00	68.180		
10,500.00	6,083.00	10,762.00	6,125.90	87.41	84.61	91.37	-208.85	2,617.78	5,746.11	5,663.38	82.73	69.460		
10,600.00	6,083.00	10,762.00	6,125.90	89.12	84.61	91.37	-208.85	2,617.78	5,833.66	5,751.20	82.46	70.745		
10,700.00	6,083.00	10,762.00	6,125.90	90.85	84.61	91.37	-208.85	2,617.78	5,921.62	5,839.41	82.20	72.035		
10,800.00	6,083.00	10,762.00	6,125.90	92.57	84.61	91.37	-208.85	2,617.78	6,009.94	5,927.98	81.96	73.328		
10,900.00	6,083.00	10,762.00	6,125.90	94.29	84.61	91.37	-208.85	2,617.78	6,098.63	6,016.91	81.72	74.625		
11,000.00	6,083.00	10,762.00	6,125.90	96.02	84.61	91.37	-208.85	2,617.78	6,187.67	6,106.17	81.50	75.925		
11,100.00	6,083.00	10,762.00	6,125.90	97.75	84.61	91.37	-208.85	2,617.78	6,277.03	6,195.75	81.28	77.228		
11,200.00	6,083.00	10,762.00	6,125.90	99.48	84.61	91.37	-208.85	2,617.78	6,366.71	6,285.64	81.07	78.533		
11,300.00	6,083.00	10,762.00	6,125.90	101.21	84.61	91.37	-208.85	2,617.78	6,456.70	6,375.83	80.87	79.840		
11,400.00	6,083.00	10,762.00	6,125.90	102.94	84.61	91.37	-208.85	2,617.78	6,546.97	6,466.29	80.68	81.149		
11,500.00	6,083.00	10,762.00	6,125.90	104.67	84.61	91.37	-208.85	2,617.78	6,637.52	6,557.03	80.49	82.459		
11,600.00	6,083.00	10,762.00	6,125.90	106.41	84.61	91.37	-208.85	2,617.78	6,728.34	6,648.03	80.32	83.770		
11,700.00	6,083.00	10,762.00	6,125.90	108.15	84.61	91.37	-208.85	2,617.78	6,819.42	6,739.27	80.15	85.082		
11,800.00	6,083.00	10,762.00	6,125.90	109.88	84.61	91.37	-208.85	2,617.78	6,910.75	6,830.76	79.99	86.395		
11,900.00	6,083.00	10,762.00	6,125.90	111.62	84.61	91.37	-208.85	2,617.78	7,002.31	6,922.47	79.84	87.708		
12,000.00	6,083.00	10,762.00	6,125.90	113.36	84.61	91.37	-208.85	2,617.78	7,094.10	7,014.41	79.69	89.021		
12,100.00	6,083.00	10,762.00	6,125.90	115.10	84.61	91.37	-208.85	2,617.78	7,186.11	7,106.56	79.55	90.335		
12,200.00	6,083.00	10,762.00	6,125.90	116.85	84.61	91.37	-208.85	2,617.78	7,278.32	7,198.91	79.42	91.647		
12,300.00	6,083.00	10,762.00	6,125.90	118.59	84.61	91.37	-208.85	2,617.78	7,370.75	7,291.46	79.29	92.960		
12,400.00	6,083.00	10,762.00	6,125.90	120.33	84.61	91.37	-208.85	2,617.78	7,463.36	7,384.19	79.17	94.271		
12,500.00	6,083.00	10,762.00	6,125.90	122.08	84.61	91.37	-208.85	2,617.78	7,556.17	7,477.12	79.05	95.582		
12,600.00	6,083.00	10,762.00	6,125.90	123.82	84.61	91.37	-208.85	2,617.78	7,649.16	7,570.21	78.95	96.892		
12,700.00	6,083.00	10,762.00	6,125.90	125.57	84.61	91.37	-208.85	2,617.78	7,742.32	7,663.48	78.84	98.200		
12,800.00	6,083.00	10,762.00	6,125.90	127.32	84.61	91.37	-208.85	2,617.78	7,835.65	7,756.90	78.74	99.508		
12,900.00	6,083.00	10,762.00	6,125.90	129.07	84.61	91.37	-208.85	2,617.78	7,929.14	7,850.49	78.65	100.813		
13,000.00	6,083.00	10,762.00	6,125.90	130.81	84.61	91.37	-208.85	2,617.78	8,022.79	7,944.23	78.56	102.118		
13,100.00	6,083.00	10,762.00	6,125.90	132.56	84.61	91.37	-208.85	2,617.78	8,116.59	8,038.11	78.48	103.420		
13,200.00	6,083.00	10,762.00	6,125.90	134.31	84.61	91.37	-208.85	2,617.78	8,210.54	8,132.14	78.40	104.721		
13,300.00	6,083.00	10,762.00	6,125.90	136.06	84.61	91.37	-208.85	2,617.78	8,304.63	8,226.30	78.33	106.020		
13,400.00	6,083.00	10,762.00	6,125.90	137.81	84.61	91.37	-208.85	2,617.78	8,398.86	8,320.59	78.26	107.317		
13,500.00	6,083.00	10,762.00	6,125.90	139.57	84.61	91.37	-208.85	2,617.78	8,493.21	8,415.02	78.20	108.611		
13,600.00	6,083.00	10,762.00	6,125.90	141.32	84.61	91.37	-208.85	2,617.78	8,587.70	8,509.56	78.14	109.904		
13,700.00	6,083.00	10,762.00	6,125.90	143.07	84.61	91.37	-208.85	2,617.78	8,682.31	8,604.23	78.08	111.194		
13,800.00	6,083.00	10,762.00	6,125.90	144.82	84.61	91.37	-208.85	2,617.78	8,777.04	8,699.01	78.03	112.483		
13,900.00	6,083.00	10,762.00	6,125.90	146.58	84.61	91.37	-208.85	2,617.78	8,871.88	8,793.90	77.98	113.768		
14,000.00	6,083.00	10,762.00	6,125.90	148.33	84.61	91.37	-208.85	2,617.78	8,966.84	8,888.90	77.94	115.052		
14,100.00	6,083.00	10,762.00	6,125.90	150.09	84.61	91.37	-208.85	2,617.78	9,061.90	8,984.01	77.90	116.333		
14,200.00	6,083.00	10,762.00	6,125.90	151.84	84.61	91.37	-208.85	2,617.78	9,157.07	9,079.21	77.86	117.611		
14,300.00	6,083.00	10,762.00	6,125.90	153.60	84.61	91.37	-208.85	2,617.78	9,252.34	9,174.52	77.82	118.887		
14,400.00	6,083.00	10,762.00	6,125.90	155.35	84.61	91.37	-208.85	2,617.78	9,347.71	9,269.92	77.79	120.160		
14,500.00	6,083.00	10,762.00	6,125.90	157.11	84.61	91.37	-208.85	2,617.78	9,443.18	9,365.41	77.77	121.430		
14,600.00	6,083.00	10,762.00	6,125.90	158.87	84.61	91.37	-208.85	2,617.78	9,538.74	9,461.00	77.74	122.698		
14,700.00	6,083.00	10,762.00	6,125.90	160.62	84.61	91.37	-208.85	2,617.78	9,634.39	9,556.67	77.72	123.963		
14,800.00	6,083.00	10,762.00	6,125.90	162.38	84.61	91.37	-208.85	2,617.78	9,730.13	9,652.43	77.70	125.225		
14,900.00	6,083.00	10,762.00	6,125.90	164.14	84.61	91.37	-208.85	2,617.78	9,825.95	9,748.26	77.68	126.485		
15,000.00	6,083.00	10,762.00	6,125.90	165.90	84.61	91.37	-208.85	2,617.78	9,921.85	9,844.18	77.67	127.741		
15,100.00	6,083.00	10,762.00	6,125.90	167.66	84.61	91.37	-208.85	2,617.78	10,017.84	9,940.18	77.66	128.995		

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-05
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4684.00usft
Reference Site:	SEC 5-T5N-R61W	MD Reference:	KB 25' @ 4684.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PRONGHORN K-5 FED 32N-20-05	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 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		
0.00	0.00	16,154.00	6,092.23	0.00	178.30	-98.92	-199.57	-1,271.67	6,284.48					
100.00	100.00	16,154.00	6,092.23	0.27	178.30	-98.92	-199.57	-1,271.67	6,186.63	6,096.20	90.43	68.413		
200.00	200.00	16,154.00	6,092.23	0.63	178.30	-98.92	-199.57	-1,271.67	6,088.85	5,998.21	90.65	67.172		
300.00	300.00	16,154.00	6,092.23	0.99	178.30	-98.92	-199.57	-1,271.67	5,991.15	5,900.27	90.88	65.925		
400.00	400.00	16,154.00	6,092.23	1.34	178.30	-98.92	-199.57	-1,271.67	5,893.53	5,802.40	91.13	64.672		
500.00	499.98	16,154.00	6,092.23	1.70	178.30	-62.40	-199.57	-1,271.67	5,795.78	5,704.39	91.39	63.421		
600.00	599.88	16,154.00	6,092.23	2.06	178.30	-64.90	-199.57	-1,271.67	5,697.84	5,606.20	91.64	62.176		
700.00	699.78	16,154.00	6,092.23	2.42	178.30	-64.90	-199.57	-1,271.67	5,599.96	5,508.06	91.90	60.934		
800.00	799.68	16,154.00	6,092.23	2.78	178.30	-64.90	-199.57	-1,271.67	5,502.16	5,409.97	92.18	59.688		
900.00	899.58	16,154.00	6,092.23	3.14	178.30	-64.90	-199.57	-1,271.67	5,404.44	5,311.95	92.48	58.439		
1,000.00	999.48	16,154.00	6,092.23	3.50	178.30	-64.90	-199.57	-1,271.67	5,306.80	5,214.00	92.80	57.187		
1,100.00	1,099.38	16,154.00	6,092.23	3.87	178.30	-64.90	-199.57	-1,271.67	5,209.25	5,116.12	93.13	55.934		
1,200.00	1,199.28	16,154.00	6,092.23	4.23	178.30	-64.90	-199.57	-1,271.67	5,111.80	5,018.31	93.49	54.679		
1,300.00	1,299.18	16,154.00	6,092.23	4.59	178.30	-64.90	-199.57	-1,271.67	5,014.45	4,920.58	93.86	53.423		
1,400.00	1,399.08	16,154.00	6,092.23	4.96	178.30	-64.90	-199.57	-1,271.67	4,917.20	4,822.94	94.26	52.167		
1,500.00	1,498.97	16,154.00	6,092.23	5.32	178.30	-64.90	-199.57	-1,271.67	4,820.07	4,725.39	94.68	50.910		
1,600.00	1,598.87	16,154.00	6,092.23	5.69	178.30	-64.90	-199.57	-1,271.67	4,723.05	4,627.93	95.12	49.653		
1,700.00	1,698.77	16,154.00	6,092.23	6.05	178.30	-64.90	-199.57	-1,271.67	4,626.17	4,530.58	95.59	48.397		
1,800.00	1,798.67	16,154.00	6,092.23	6.42	178.30	-64.90	-199.57	-1,271.67	4,529.42	4,433.34	96.08	47.142		
1,900.00	1,898.57	16,154.00	6,092.23	6.78	178.30	-64.90	-199.57	-1,271.67	4,432.81	4,336.21	96.60	45.889		
2,000.00	1,998.47	16,154.00	6,092.23	7.15	178.30	-64.90	-199.57	-1,271.67	4,336.36	4,239.21	97.15	44.637		
2,100.00	2,098.37	16,154.00	6,092.23	7.51	178.30	-64.90	-199.57	-1,271.67	4,240.07	4,142.34	97.73	43.387		
2,200.00	2,198.27	16,154.00	6,092.23	7.87	178.30	-64.90	-199.57	-1,271.67	4,143.95	4,045.62	98.34	42.140		
2,300.00	2,298.17	16,154.00	6,092.23	8.24	178.30	-64.90	-199.57	-1,271.67	4,048.03	3,949.05	98.98	40.896		
2,400.00	2,398.06	16,154.00	6,092.23	8.60	178.30	-64.90	-199.57	-1,271.67	3,952.31	3,852.64	99.67	39.656		
2,500.00	2,497.96	16,154.00	6,092.23	8.97	178.30	-64.90	-199.57	-1,271.67	3,856.80	3,756.41	100.39	38.419		
2,600.00	2,597.86	16,154.00	6,092.23	9.33	178.30	-64.90	-199.57	-1,271.67	3,761.53	3,660.38	101.15	37.186		
2,700.00	2,697.76	16,154.00	6,092.23	9.70	178.30	-64.90	-199.57	-1,271.67	3,666.51	3,564.54	101.97	35.958		
2,800.00	2,797.66	16,154.00	6,092.23	10.06	178.30	-64.90	-199.57	-1,271.67	3,571.76	3,468.94	102.83	34.736		
2,900.00	2,897.56	16,154.00	6,092.23	10.43	178.30	-64.90	-199.57	-1,271.67	3,477.31	3,373.57	103.74	33.519		
3,000.00	2,997.46	16,154.00	6,092.23	10.79	178.30	-64.90	-199.57	-1,271.67	3,383.17	3,278.46	104.71	32.309		
3,100.00	3,097.36	16,154.00	6,092.23	11.16	178.30	-64.90	-199.57	-1,271.67	3,289.38	3,183.64	105.75	31.106		
3,200.00	3,197.25	16,154.00	6,092.23	11.52	178.30	-64.90	-199.57	-1,271.67	3,195.97	3,089.12	106.85	29.911		
3,300.00	3,297.15	16,154.00	6,092.23	11.89	178.30	-64.90	-199.57	-1,271.67	3,102.97	2,994.94	108.03	28.724		
3,400.00	3,397.05	16,154.00	6,092.23	12.25	178.30	-64.90	-199.57	-1,271.67	3,010.42	2,901.13	109.28	27.547		
3,500.00	3,496.95	16,154.00	6,092.23	12.62	178.30	-64.90	-199.57	-1,271.67	2,918.35	2,807.73	110.63	26.380		
3,600.00	3,596.85	16,154.00	6,092.23	12.98	178.30	-64.90	-199.57	-1,271.67	2,826.83	2,714.76	112.07	25.224		
3,700.00	3,696.75	16,154.00	6,092.23	13.35	178.30	-64.90	-199.57	-1,271.67	2,735.90	2,622.29	113.61	24.081		
3,800.00	3,796.65	16,154.00	6,092.23	13.72	178.30	-64.90	-199.57	-1,271.67	2,645.63	2,530.36	115.27	22.952		
3,900.00	3,896.55	16,154.00	6,092.23	14.08	178.30	-64.90	-199.57	-1,271.67	2,556.08	2,439.03	117.05	21.838		
4,000.00	3,996.45	16,154.00	6,092.23	14.45	178.30	-64.90	-199.57	-1,271.67	2,467.33	2,348.37	118.96	20.741		
4,100.00	4,096.34	16,154.00	6,092.23	14.81	178.30	-64.90	-199.57	-1,271.67	2,379.48	2,258.46	121.02	19.662		
4,200.00	4,196.24	16,154.00	6,092.23	15.18	178.30	-64.90	-199.57	-1,271.67	2,292.62	2,169.38	123.24	18.603		
4,300.00	4,296.14	16,154.00	6,092.23	15.54	178.30	-64.90	-199.57	-1,271.67	2,206.87	2,081.24	125.63	17.566		
4,400.00	4,396.04	16,154.00	6,092.23	15.91	178.30	-64.90	-199.57	-1,271.67	2,122.38	1,994.17	128.21	16.554		
4,500.00	4,495.94	16,154.00	6,092.23	16.27	178.30	-64.90	-199.57	-1,271.67	2,039.28	1,908.30	130.98	15.569		
4,600.00	4,595.84	16,154.00	6,092.23	16.64	178.30	-64.90	-199.57	-1,271.67	1,957.77	1,823.80	133.96	14.614		
4,700.00	4,695.74	16,154.00	6,092.23	17.00	178.30	-64.90	-199.57	-1,271.67	1,878.04	1,740.87	137.17	13.691		
4,800.00	4,795.64	16,154.00	6,092.23	17.37	178.30	-64.90	-199.57	-1,271.67	1,800.34	1,659.73	140.61	12.804		
4,900.00	4,895.54	16,154.00	6,092.23	17.73	178.30	-64.90	-199.57	-1,271.67	1,724.94	1,580.66	144.28	11.956		
5,000.00	4,995.43	16,154.00	6,092.23	18.10	178.30	-64.90	-199.57	-1,271.67	1,652.15	1,503.97	148.18	11.150		
5,100.00	5,095.33	16,154.00	6,092.23	18.46	178.30	-64.90	-199.57	-1,271.67	1,582.34	1,430.04	152.30	10.390		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
5,200.00	5,195.23	16,154.00	6,092.23	18.83	178.30	-64.90	-199.57	-1,271.67	1,515.91	1,359.30	156.61	9.680		
5,300.00	5,295.13	16,154.00	6,092.23	19.19	178.30	-64.90	-199.57	-1,271.67	1,453.33	1,292.27	161.06	9.024		
5,400.00	5,395.03	16,154.00	6,092.23	19.56	178.30	-64.90	-199.57	-1,271.67	1,395.12	1,229.53	165.59	8.425		
5,500.00	5,494.93	16,154.00	6,092.23	19.92	178.30	-64.90	-199.57	-1,271.67	1,341.84	1,171.75	170.09	7.889		
5,600.00	5,594.56	16,154.00	6,092.23	20.29	178.30	-100.52	-199.57	-1,271.67	1,295.33	1,121.02	174.30	7.431		
5,700.00	5,691.64	16,154.00	6,092.23	20.69	178.30	-110.28	-199.57	-1,271.67	1,261.05	1,083.61	177.45	7.107		
5,800.00	5,783.21	16,154.00	6,092.23	21.10	178.30	-113.98	-199.57	-1,271.67	1,241.41	1,062.34	179.07	6.932		
5,872.85	5,844.85	16,154.00	6,092.23	21.43	178.30	-115.06	-199.57	-1,271.67	1,237.09	1,057.95	179.14	6.906	CC, ES, SF	
5,900.00	5,866.49	16,154.00	6,092.23	21.55	178.30	-115.19	-199.57	-1,271.67	1,237.69	1,058.79	178.90	6.918		
6,000.00	5,938.95	16,154.00	6,092.23	22.06	178.30	-114.57	-199.57	-1,271.67	1,250.16	1,073.24	176.92	7.066		
6,100.00	5,998.39	16,154.00	6,092.23	22.64	178.30	-112.25	-199.57	-1,271.67	1,277.97	1,104.62	173.35	7.372		
6,200.00	6,043.00	16,154.00	6,092.23	23.31	178.30	-108.21	-199.57	-1,271.67	1,319.34	1,150.74	168.60	7.825		
6,300.00	6,071.42	16,154.00	6,092.23	24.06	178.30	-102.40	-199.57	-1,271.67	1,371.86	1,208.71	163.15	8.408		
6,400.00	6,082.79	16,154.00	6,092.23	24.89	178.30	-94.87	-199.57	-1,271.67	1,432.81	1,275.35	157.45	9.100		
6,500.00	6,083.00	16,154.00	6,092.23	25.78	178.30	-93.57	-199.57	-1,271.67	1,499.19	1,347.35	151.84	9.873		
6,600.00	6,083.00	16,154.00	6,092.23	26.77	178.30	-93.57	-199.57	-1,271.67	1,569.16	1,422.69	146.47	10.713		
6,700.00	6,083.00	16,154.00	6,092.23	27.83	178.30	-93.57	-199.57	-1,271.67	1,642.24	1,500.86	141.37	11.616		
6,800.00	6,083.00	16,154.00	6,092.23	28.96	178.30	-93.57	-199.57	-1,271.67	1,718.03	1,581.47	136.56	12.581		
6,900.00	6,083.00	16,154.00	6,092.23	30.15	178.30	-93.57	-199.57	-1,271.67	1,796.20	1,664.16	132.04	13.604		
7,000.00	6,083.00	16,154.00	6,092.23	31.40	178.30	-93.57	-199.57	-1,271.67	1,876.43	1,748.63	127.80	14.682		
7,100.00	6,083.00	16,154.00	6,092.23	32.70	178.30	-93.57	-199.57	-1,271.67	1,958.49	1,834.65	123.85	15.814		
7,200.00	6,083.00	16,154.00	6,092.23	34.04	178.30	-93.57	-199.57	-1,271.67	2,042.15	1,922.00	120.15	16.996		
7,300.00	6,083.00	16,154.00	6,092.23	35.42	178.30	-93.57	-199.57	-1,271.67	2,127.22	2,010.51	116.71	18.227		
7,400.00	6,083.00	16,154.00	6,092.23	36.83	178.30	-93.57	-199.57	-1,271.67	2,213.54	2,100.04	113.50	19.503		
7,500.00	6,083.00	16,154.00	6,092.23	38.27	178.30	-93.57	-199.57	-1,271.67	2,300.96	2,190.46	110.50	20.823		
7,600.00	6,083.00	16,154.00	6,092.23	39.74	178.30	-93.57	-199.57	-1,271.67	2,389.38	2,281.67	107.71	22.184		
7,700.00	6,083.00	16,154.00	6,092.23	41.23	178.30	-93.57	-199.57	-1,271.67	2,478.67	2,373.57	105.10	23.583		
7,800.00	6,083.00	16,154.00	6,092.23	42.75	178.30	-93.57	-199.57	-1,271.67	2,568.75	2,466.08	102.67	25.019		
7,900.00	6,083.00	16,154.00	6,092.23	44.28	178.30	-93.57	-199.57	-1,271.67	2,659.55	2,559.15	100.40	26.489		
8,000.00	6,083.00	16,154.00	6,092.23	45.83	178.30	-93.57	-199.57	-1,271.67	2,750.98	2,652.70	98.28	27.992		
8,100.00	6,083.00	16,154.00	6,092.23	47.40	178.30	-93.57	-199.57	-1,271.67	2,842.98	2,746.69	96.29	29.525		
8,200.00	6,083.00	16,154.00	6,092.23	48.98	178.30	-93.57	-199.57	-1,271.67	2,935.51	2,841.09	94.43	31.087		
8,300.00	6,083.00	16,154.00	6,092.23	50.57	178.30	-93.57	-199.57	-1,271.67	3,028.52	2,935.83	92.68	32.676		
8,400.00	6,083.00	16,154.00	6,092.23	52.18	178.30	-93.57	-199.57	-1,271.67	3,121.96	3,030.91	91.05	34.289		
8,500.00	6,083.00	16,154.00	6,092.23	53.79	178.30	-93.57	-199.57	-1,271.67	3,215.79	3,126.28	89.51	35.926		
8,600.00	6,083.00	16,154.00	6,092.23	55.42	178.30	-93.57	-199.57	-1,271.67	3,309.98	3,221.91	88.07	37.584		
8,700.00	6,083.00	16,154.00	6,092.23	57.05	178.30	-93.57	-199.57	-1,271.67	3,404.51	3,317.80	86.71	39.262		
8,800.00	6,083.00	16,154.00	6,092.23	58.70	178.30	-93.57	-199.57	-1,271.67	3,499.34	3,413.90	85.43	40.959		
8,900.00	6,083.00	16,154.00	6,092.23	60.35	178.30	-93.57	-199.57	-1,271.67	3,594.45	3,510.22	84.23	42.673		
9,000.00	6,083.00	16,154.00	6,092.23	62.00	178.30	-93.57	-199.57	-1,271.67	3,689.82	3,606.72	83.10	44.403		
9,100.00	6,083.00	16,154.00	6,092.23	63.66	178.30	-93.57	-199.57	-1,271.67	3,785.42	3,703.39	82.03	46.148		
9,200.00	6,083.00	16,154.00	6,092.23	65.33	178.30	-93.57	-199.57	-1,271.67	3,881.25	3,800.23	81.02	47.905		
9,300.00	6,083.00	16,154.00	6,092.23	67.01	178.30	-93.57	-199.57	-1,271.67	3,977.28	3,897.22	80.07	49.675		
9,400.00	6,083.00	16,154.00	6,092.23	68.69	178.30	-93.57	-199.57	-1,271.67	4,073.51	3,994.34	79.16	51.456		
9,500.00	6,083.00	16,154.00	6,092.23	70.37	178.30	-93.57	-199.57	-1,271.67	4,169.91	4,091.60	78.31	53.247		
9,600.00	6,083.00	16,154.00	6,092.23	72.06	178.30	-93.57	-199.57	-1,271.67	4,266.48	4,188.97	77.51	55.046		
9,700.00	6,083.00	16,154.00	6,092.23	73.75	178.30	-93.57	-199.57	-1,271.67	4,363.20	4,286.46	76.74	56.854		
9,800.00	6,083.00	16,154.00	6,092.23	75.45	178.30	-93.57	-199.57	-1,271.67	4,460.07	4,384.05	76.02	58.668		
9,900.00	6,083.00	16,154.00	6,092.23	77.15	178.30	-93.57	-199.57	-1,271.67	4,557.07	4,481.74	75.34	60.489		
10,000.00	6,083.00	16,154.00	6,092.23	78.85	178.30	-93.57	-199.57	-1,271.67	4,654.20	4,579.51	74.69	62.315		
10,100.00	6,083.00	16,154.00	6,092.23	80.56	178.30	-93.57	-199.57	-1,271.67	4,751.45	4,677.38	74.07	64.145		
10,200.00	6,083.00	16,154.00	6,092.23	82.26	178.30	-93.57	-199.57	-1,271.67	4,848.81	4,775.32	73.49	65.979		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,300.00	6,083.00	16,154.00	6,092.23	83.98	178.30	-93.57	-199.57	-1,271.67	4,946.28	4,873.34	72.94	67.816		
10,400.00	6,083.00	16,154.00	6,092.23	85.69	178.30	-93.57	-199.57	-1,271.67	5,043.84	4,971.43	72.41	69.656		
10,500.00	6,083.00	16,154.00	6,092.23	87.41	178.30	-93.57	-199.57	-1,271.67	5,141.50	5,069.59	71.91	71.498		
10,600.00	6,083.00	16,154.00	6,092.23	89.12	178.30	-93.57	-199.57	-1,271.67	5,239.25	5,167.81	71.44	73.341		
10,700.00	6,083.00	16,154.00	6,092.23	90.85	178.30	-93.57	-199.57	-1,271.67	5,337.08	5,266.09	70.99	75.184		
10,800.00	6,083.00	16,154.00	6,092.23	92.57	178.30	-93.57	-199.57	-1,271.67	5,434.99	5,364.43	70.56	77.028		
10,900.00	6,083.00	16,154.00	6,092.23	94.29	178.30	-93.57	-199.57	-1,271.67	5,532.97	5,462.82	70.15	78.871		
11,000.00	6,083.00	16,154.00	6,092.23	96.02	178.30	-93.57	-199.57	-1,271.67	5,631.03	5,561.26	69.77	80.714		
11,100.00	6,083.00	16,154.00	6,092.23	97.75	178.30	-93.57	-199.57	-1,271.67	5,729.15	5,659.75	69.40	82.555		
11,200.00	6,083.00	16,154.00	6,092.23	99.48	178.30	-93.57	-199.57	-1,271.67	5,827.34	5,758.29	69.05	84.395		
11,300.00	6,083.00	16,154.00	6,092.23	101.21	178.30	-93.57	-199.57	-1,271.67	5,925.58	5,856.87	68.72	86.233		
11,400.00	6,083.00	16,154.00	6,092.23	102.94	178.30	-93.57	-199.57	-1,271.67	6,023.89	5,955.49	68.40	88.068		
11,500.00	6,083.00	16,154.00	6,092.23	104.67	178.30	-93.57	-199.57	-1,271.67	6,122.25	6,054.15	68.10	89.901		
11,600.00	6,083.00	16,154.00	6,092.23	106.41	178.30	-93.57	-199.57	-1,271.67	6,220.66	6,152.84	67.81	91.731		
11,700.00	6,083.00	16,154.00	6,092.23	108.15	178.30	-93.57	-199.57	-1,271.67	6,319.12	6,251.58	67.54	93.558		
11,800.00	6,083.00	16,154.00	6,092.23	109.88	178.30	-93.57	-199.57	-1,271.67	6,417.63	6,350.34	67.28	95.381		
11,900.00	6,083.00	16,154.00	6,092.23	111.62	178.30	-93.57	-199.57	-1,271.67	6,516.18	6,449.14	67.04	97.200		
12,000.00	6,083.00	16,154.00	6,092.23	113.36	178.30	-93.57	-199.57	-1,271.67	6,614.78	6,547.98	66.81	99.016		
12,100.00	6,083.00	16,154.00	6,092.23	115.10	178.30	-93.57	-199.57	-1,271.67	6,713.42	6,646.84	66.58	100.827		
12,200.00	6,083.00	16,154.00	6,092.23	116.85	178.30	-93.57	-199.57	-1,271.67	6,812.10	6,745.73	66.37	102.633		
12,300.00	6,083.00	16,154.00	6,092.23	118.59	178.30	-93.57	-199.57	-1,271.67	6,910.82	6,844.64	66.17	104.435		
12,400.00	6,083.00	16,154.00	6,092.23	120.33	178.30	-93.57	-199.57	-1,271.67	7,009.57	6,943.59	65.98	106.232		
12,500.00	6,083.00	16,154.00	6,092.23	122.08	178.30	-93.57	-199.57	-1,271.67	7,108.36	7,042.56	65.80	108.025		
12,600.00	6,083.00	16,154.00	6,092.23	123.82	178.30	-93.57	-199.57	-1,271.67	7,207.18	7,141.55	65.63	109.812		
12,700.00	6,083.00	16,154.00	6,092.23	125.57	178.30	-93.57	-199.57	-1,271.67	7,306.03	7,240.56	65.47	111.594		
12,800.00	6,083.00	16,154.00	6,092.23	127.32	178.30	-93.57	-199.57	-1,271.67	7,404.92	7,339.60	65.32	113.370		
12,900.00	6,083.00	16,154.00	6,092.23	129.07	178.30	-93.57	-199.57	-1,271.67	7,503.83	7,438.66	65.17	115.141		
13,000.00	6,083.00	16,154.00	6,092.23	130.81	178.30	-93.57	-199.57	-1,271.67	7,602.78	7,537.74	65.03	116.907		
13,100.00	6,083.00	16,154.00	6,092.23	132.56	178.30	-93.57	-199.57	-1,271.67	7,701.75	7,636.84	64.90	118.666		
13,200.00	6,083.00	16,154.00	6,092.23	134.31	178.30	-93.57	-199.57	-1,271.67	7,800.74	7,735.96	64.78	120.420		
13,300.00	6,083.00	16,154.00	6,092.23	136.06	178.30	-93.57	-199.57	-1,271.67	7,899.76	7,835.10	64.66	122.168		
13,400.00	6,083.00	16,154.00	6,092.23	137.81	178.30	-93.57	-199.57	-1,271.67	7,998.81	7,934.26	64.55	123.910		
13,500.00	6,083.00	16,154.00	6,092.23	139.57	178.30	-93.57	-199.57	-1,271.67	8,097.88	8,033.43	64.45	125.646		
13,600.00	6,083.00	16,154.00	6,092.23	141.32	178.30	-93.57	-199.57	-1,271.67	8,196.97	8,132.62	64.35	127.376		
13,700.00	6,083.00	16,154.00	6,092.23	143.07	178.30	-93.57	-199.57	-1,271.67	8,296.08	8,231.82	64.26	129.100		
13,800.00	6,083.00	16,154.00	6,092.23	144.82	178.30	-93.57	-199.57	-1,271.67	8,395.22	8,331.04	64.18	130.817		
13,900.00	6,083.00	16,154.00	6,092.23	146.58	178.30	-93.57	-199.57	-1,271.67	8,494.37	8,430.28	64.09	132.528		
14,000.00	6,083.00	16,154.00	6,092.23	148.33	178.30	-93.57	-199.57	-1,271.67	8,593.55	8,529.53	64.02	134.233		
14,100.00	6,083.00	16,154.00	6,092.23	150.09	178.30	-93.57	-199.57	-1,271.67	8,692.74	8,628.79	63.95	135.932		
14,200.00	6,083.00	16,154.00	6,092.23	151.84	178.30	-93.57	-199.57	-1,271.67	8,791.95	8,728.07	63.88	137.624		
14,300.00	6,083.00	16,154.00	6,092.23	153.60	178.30	-93.57	-199.57	-1,271.67	8,891.18	8,827.36	63.82	139.310		
14,400.00	6,083.00	16,154.00	6,092.23	155.35	178.30	-93.57	-199.57	-1,271.67	8,990.43	8,926.66	63.77	140.989		
14,500.00	6,083.00	16,154.00	6,092.23	157.11	178.30	-93.57	-199.57	-1,271.67	9,089.69	9,025.98	63.71	142.662		
14,600.00	6,083.00	16,154.00	6,092.23	158.87	178.30	-93.57	-199.57	-1,271.67	9,188.97	9,125.30	63.67	144.329		
14,700.00	6,083.00	16,154.00	6,092.23	160.62	178.30	-93.57	-199.57	-1,271.67	9,288.26	9,224.64	63.62	145.989		
14,800.00	6,083.00	16,154.00	6,092.23	162.38	178.30	-93.57	-199.57	-1,271.67	9,387.57	9,323.99	63.58	147.642		
14,900.00	6,083.00	16,154.00	6,092.23	164.14	178.30	-93.57	-199.57	-1,271.67	9,486.90	9,423.35	63.55	149.289		
15,000.00	6,083.00	16,154.00	6,092.23	165.90	178.30	-93.57	-199.57	-1,271.67	9,586.24	9,522.72	63.51	150.930		
15,100.00	6,083.00	16,154.00	6,092.23	167.66	178.30	-93.57	-199.57	-1,271.67	9,685.59	9,622.10	63.49	152.563		
15,200.00	6,083.00	16,154.00	6,092.23	169.42	178.30	-93.57	-199.57	-1,271.67	9,784.95	9,721.49	63.46	154.191		
15,300.00	6,083.00	16,154.00	6,092.23	171.17	178.30	-93.57	-199.57	-1,271.67	9,884.33	9,820.89	63.44	155.812		
15,400.00	6,083.00	16,154.00	6,092.23	172.93	178.30	-93.57	-199.57	-1,271.67	9,983.72	9,920.30	63.42	157.426		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
0.00	0.00	16,242.00	6,103.92	0.00	179.17	-92.98	-169.77	-3,261.41	6,976.52					
100.00	100.00	16,242.00	6,103.92	0.27	179.17	-92.98	-169.77	-3,261.41	6,888.32	6,777.52	110.79	62.172		
200.00	200.00	16,242.00	6,103.92	0.63	179.17	-92.98	-169.77	-3,261.41	6,800.44	6,688.98	111.46	61.013		
300.00	300.00	16,242.00	6,103.92	0.99	179.17	-92.98	-169.77	-3,261.41	6,712.89	6,600.73	112.16	59.849		
400.00	400.00	16,242.00	6,103.92	1.34	179.17	-92.98	-169.77	-3,261.41	6,625.70	6,512.80	112.91	58.682		
500.00	499.98	16,242.00	6,103.92	1.70	179.17	-51.32	-169.77	-3,261.41	6,538.32	6,424.63	113.69	57.510		
600.00	599.88	16,242.00	6,103.92	2.06	179.17	-52.15	-169.77	-3,261.41	6,450.50	6,336.01	114.49	56.340		
700.00	699.78	16,242.00	6,103.92	2.42	179.17	-52.15	-169.77	-3,261.41	6,362.99	6,247.68	115.32	55.179		
800.00	799.68	16,242.00	6,103.92	2.78	179.17	-52.15	-169.77	-3,261.41	6,275.86	6,159.68	116.18	54.020		
900.00	899.58	16,242.00	6,103.92	3.14	179.17	-52.15	-169.77	-3,261.41	6,189.12	6,072.04	117.08	52.864		
1,000.00	999.48	16,242.00	6,103.92	3.50	179.17	-52.15	-169.77	-3,261.41	6,102.78	5,984.77	118.01	51.713		
1,100.00	1,099.38	16,242.00	6,103.92	3.87	179.17	-52.15	-169.77	-3,261.41	6,016.86	5,897.88	118.99	50.568		
1,200.00	1,199.28	16,242.00	6,103.92	4.23	179.17	-52.15	-169.77	-3,261.41	5,931.39	5,811.39	120.00	49.430		
1,300.00	1,299.18	16,242.00	6,103.92	4.59	179.17	-52.15	-169.77	-3,261.41	5,846.38	5,725.33	121.05	48.299		
1,400.00	1,399.08	16,242.00	6,103.92	4.96	179.17	-52.15	-169.77	-3,261.41	5,761.85	5,639.71	122.13	47.178		
1,500.00	1,498.97	16,242.00	6,103.92	5.32	179.17	-52.15	-169.77	-3,261.41	5,677.82	5,554.56	123.26	46.066		
1,600.00	1,598.87	16,242.00	6,103.92	5.69	179.17	-52.15	-169.77	-3,261.41	5,594.31	5,469.90	124.42	44.964		
1,700.00	1,698.77	16,242.00	6,103.92	6.05	179.17	-52.15	-169.77	-3,261.41	5,511.36	5,385.74	125.62	43.874		
1,800.00	1,798.67	16,242.00	6,103.92	6.42	179.17	-52.15	-169.77	-3,261.41	5,428.98	5,302.12	126.86	42.796		
1,900.00	1,898.57	16,242.00	6,103.92	6.78	179.17	-52.15	-169.77	-3,261.41	5,347.20	5,219.06	128.14	41.730		
2,000.00	1,998.47	16,242.00	6,103.92	7.15	179.17	-52.15	-169.77	-3,261.41	5,266.05	5,136.59	129.46	40.677		
2,100.00	2,098.37	16,242.00	6,103.92	7.51	179.17	-52.15	-169.77	-3,261.41	5,185.56	5,054.74	130.82	39.639		
2,200.00	2,198.27	16,242.00	6,103.92	7.87	179.17	-52.15	-169.77	-3,261.41	5,105.76	4,973.54	132.22	38.615		
2,300.00	2,298.17	16,242.00	6,103.92	8.24	179.17	-52.15	-169.77	-3,261.41	5,026.68	4,893.01	133.67	37.606		
2,400.00	2,398.06	16,242.00	6,103.92	8.60	179.17	-52.15	-169.77	-3,261.41	4,948.36	4,813.20	135.16	36.612		
2,500.00	2,497.96	16,242.00	6,103.92	8.97	179.17	-52.15	-169.77	-3,261.41	4,870.83	4,734.14	136.69	35.635		
2,600.00	2,597.86	16,242.00	6,103.92	9.33	179.17	-52.15	-169.77	-3,261.41	4,794.13	4,655.87	138.26	34.675		
2,700.00	2,697.76	16,242.00	6,103.92	9.70	179.17	-52.15	-169.77	-3,261.41	4,718.31	4,578.43	139.88	33.732		
2,800.00	2,797.66	16,242.00	6,103.92	10.06	179.17	-52.15	-169.77	-3,261.41	4,643.40	4,501.86	141.54	32.806		
2,900.00	2,897.56	16,242.00	6,103.92	10.43	179.17	-52.15	-169.77	-3,261.41	4,569.46	4,426.21	143.25	31.900		
3,000.00	2,997.46	16,242.00	6,103.92	10.79	179.17	-52.15	-169.77	-3,261.41	4,496.52	4,351.53	144.99	31.012		
3,100.00	3,097.36	16,242.00	6,103.92	11.16	179.17	-52.15	-169.77	-3,261.41	4,424.64	4,277.85	146.79	30.144		
3,200.00	3,197.25	16,242.00	6,103.92	11.52	179.17	-52.15	-169.77	-3,261.41	4,353.87	4,205.25	148.62	29.295		
3,300.00	3,297.15	16,242.00	6,103.92	11.89	179.17	-52.15	-169.77	-3,261.41	4,284.26	4,133.77	150.50	28.468		
3,400.00	3,397.05	16,242.00	6,103.92	12.25	179.17	-52.15	-169.77	-3,261.41	4,215.88	4,063.47	152.41	27.661		
3,500.00	3,496.95	16,242.00	6,103.92	12.62	179.17	-52.15	-169.77	-3,261.41	4,148.78	3,994.41	154.37	26.876		
3,600.00	3,596.85	16,242.00	6,103.92	12.98	179.17	-52.15	-169.77	-3,261.41	4,083.03	3,926.67	156.36	26.114		
3,700.00	3,696.75	16,242.00	6,103.92	13.35	179.17	-52.15	-169.77	-3,261.41	4,018.69	3,860.31	158.38	25.373		
3,800.00	3,796.65	16,242.00	6,103.92	13.72	179.17	-52.15	-169.77	-3,261.41	3,955.83	3,795.39	160.44	24.657		
3,900.00	3,896.55	16,242.00	6,103.92	14.08	179.17	-52.15	-169.77	-3,261.41	3,894.53	3,732.00	162.52	23.963		
4,000.00	3,996.45	16,242.00	6,103.92	14.45	179.17	-52.15	-169.77	-3,261.41	3,834.85	3,670.22	164.63	23.294		
4,100.00	4,096.34	16,242.00	6,103.92	14.81	179.17	-52.15	-169.77	-3,261.41	3,776.88	3,610.12	166.76	22.649		
4,200.00	4,196.24	16,242.00	6,103.92	15.18	179.17	-52.15	-169.77	-3,261.41	3,720.69	3,551.80	168.90	22.029		
4,300.00	4,296.14	16,242.00	6,103.92	15.54	179.17	-52.15	-169.77	-3,261.41	3,666.37	3,495.33	171.05	21.435		
4,400.00	4,396.04	16,242.00	6,103.92	15.91	179.17	-52.15	-169.77	-3,261.41	3,614.00	3,440.81	173.20	20.867		
4,500.00	4,495.94	16,242.00	6,103.92	16.27	179.17	-52.15	-169.77	-3,261.41	3,563.67	3,388.33	175.34	20.324		
4,600.00	4,595.84	16,242.00	6,103.92	16.64	179.17	-52.15	-169.77	-3,261.41	3,515.47	3,338.00	177.47	19.809		
4,700.00	4,695.74	16,242.00	6,103.92	17.00	179.17	-52.15	-169.77	-3,261.41	3,469.47	3,289.89	179.58	19.320		
4,800.00	4,795.64	16,242.00	6,103.92	17.37	179.17	-52.15	-169.77	-3,261.41	3,425.78	3,244.13	181.65	18.859		
4,900.00	4,895.54	16,242.00	6,103.92	17.73	179.17	-52.15	-169.77	-3,261.41	3,384.48	3,200.79	183.69	18.425		
5,000.00	4,995.43	16,242.00	6,103.92	18.10	179.17	-52.15	-169.77	-3,261.41	3,345.66	3,159.99	185.67	18.019		
5,100.00	5,095.33	16,242.00	6,103.92	18.46	179.17	-52.15	-169.77	-3,261.41	3,309.41	3,121.82	187.59	17.642		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
5,200.00	5,195.23	16,242.00	6,103.92	18.83	179.17	-52.15	-169.77	-3,261.41	3,275.81	3,086.37	189.44	17.292		
5,300.00	5,295.13	16,242.00	6,103.92	19.19	179.17	-52.15	-169.77	-3,261.41	3,244.95	3,053.75	191.20	16.972		
5,400.00	5,395.03	16,242.00	6,103.92	19.56	179.17	-52.15	-169.77	-3,261.41	3,216.90	3,024.03	192.86	16.680		
5,500.00	5,494.93	16,242.00	6,103.92	19.92	179.17	-52.15	-169.77	-3,261.41	3,191.73	2,997.31	194.42	16.417		
5,600.00	5,594.56	16,242.00	6,103.92	20.29	179.17	-86.07	-169.77	-3,261.41	3,170.00	2,974.14	195.86	16.185		
5,700.00	5,691.64	16,242.00	6,103.92	20.69	179.17	-94.14	-169.77	-3,261.41	3,153.62	2,956.45	197.18	15.994		
5,800.00	5,783.21	16,242.00	6,103.92	21.10	179.17	-97.06	-169.77	-3,261.41	3,143.30	2,944.97	198.32	15.849		
5,900.00	5,866.49	16,242.00	6,103.92	21.55	179.17	-98.33	-169.77	-3,261.41	3,139.40	2,940.12	199.28	15.753		
5,909.42	5,873.82	16,242.00	6,103.92	21.60	179.17	-98.39	-169.77	-3,261.41	3,139.37	2,940.00	199.37	15.747 CC, ES		
6,000.00	5,938.95	16,242.00	6,103.92	22.06	179.17	-98.56	-169.77	-3,261.41	3,142.06	2,942.02	200.04	15.707 SF		
6,100.00	5,998.39	16,242.00	6,103.92	22.64	179.17	-97.95	-169.77	-3,261.41	3,151.20	2,950.60	200.60	15.709		
6,200.00	6,043.00	16,242.00	6,103.92	23.31	179.17	-96.61	-169.77	-3,261.41	3,166.48	2,965.52	200.96	15.757		
6,300.00	6,071.42	16,242.00	6,103.92	24.06	179.17	-94.59	-169.77	-3,261.41	3,187.34	2,986.21	201.14	15.847		
6,400.00	6,082.79	16,242.00	6,103.92	24.89	179.17	-91.97	-169.77	-3,261.41	3,213.06	3,011.93	201.14	15.975		
6,500.00	6,083.00	16,242.00	6,103.92	25.78	179.17	-91.52	-169.77	-3,261.41	3,242.50	3,041.49	201.00	16.132		
6,600.00	6,083.00	16,242.00	6,103.92	26.77	179.17	-91.52	-169.77	-3,261.41	3,274.73	3,073.94	200.79	16.309		
6,700.00	6,083.00	16,242.00	6,103.92	27.83	179.17	-91.52	-169.77	-3,261.41	3,309.67	3,109.17	200.51	16.507		
6,800.00	6,083.00	16,242.00	6,103.92	28.96	179.17	-91.52	-169.77	-3,261.41	3,347.24	3,147.10	200.14	16.725		
6,900.00	6,083.00	16,242.00	6,103.92	30.15	179.17	-91.52	-169.77	-3,261.41	3,387.34	3,187.65	199.69	16.963		
7,000.00	6,083.00	16,242.00	6,103.92	31.40	179.17	-91.52	-169.77	-3,261.41	3,429.89	3,230.73	199.17	17.221		
7,100.00	6,083.00	16,242.00	6,103.92	32.70	179.17	-91.52	-169.77	-3,261.41	3,474.80	3,276.23	198.57	17.499		
7,200.00	6,083.00	16,242.00	6,103.92	34.04	179.17	-91.52	-169.77	-3,261.41	3,521.98	3,324.08	197.90	17.797		
7,300.00	6,083.00	16,242.00	6,103.92	35.42	179.17	-91.52	-169.77	-3,261.41	3,571.33	3,374.17	197.16	18.113		
7,400.00	6,083.00	16,242.00	6,103.92	36.83	179.17	-91.52	-169.77	-3,261.41	3,622.77	3,426.41	196.37	18.449		
7,500.00	6,083.00	16,242.00	6,103.92	38.27	179.17	-91.52	-169.77	-3,261.41	3,676.22	3,480.70	195.51	18.803		
7,600.00	6,083.00	16,242.00	6,103.92	39.74	179.17	-91.52	-169.77	-3,261.41	3,731.57	3,536.96	194.61	19.175		
7,700.00	6,083.00	16,242.00	6,103.92	41.23	179.17	-91.52	-169.77	-3,261.41	3,788.76	3,595.10	193.66	19.564		
7,800.00	6,083.00	16,242.00	6,103.92	42.75	179.17	-91.52	-169.77	-3,261.41	3,847.70	3,655.03	192.67	19.970		
7,900.00	6,083.00	16,242.00	6,103.92	44.28	179.17	-91.52	-169.77	-3,261.41	3,908.31	3,716.66	191.65	20.393		
8,000.00	6,083.00	16,242.00	6,103.92	45.83	179.17	-91.52	-169.77	-3,261.41	3,970.51	3,779.91	190.60	20.832		
8,100.00	6,083.00	16,242.00	6,103.92	47.40	179.17	-91.52	-169.77	-3,261.41	4,034.23	3,844.71	189.53	21.286		
8,200.00	6,083.00	16,242.00	6,103.92	48.98	179.17	-91.52	-169.77	-3,261.41	4,099.40	3,910.97	188.43	21.756		
8,300.00	6,083.00	16,242.00	6,103.92	50.57	179.17	-91.52	-169.77	-3,261.41	4,165.96	3,978.64	187.32	22.240		
8,400.00	6,083.00	16,242.00	6,103.92	52.18	179.17	-91.52	-169.77	-3,261.41	4,233.82	4,047.63	186.20	22.738		
8,500.00	6,083.00	16,242.00	6,103.92	53.79	179.17	-91.52	-169.77	-3,261.41	4,302.95	4,117.88	185.07	23.251		
8,600.00	6,083.00	16,242.00	6,103.92	55.42	179.17	-91.52	-169.77	-3,261.41	4,373.26	4,189.33	183.93	23.777		
8,700.00	6,083.00	16,242.00	6,103.92	57.05	179.17	-91.52	-169.77	-3,261.41	4,444.72	4,261.92	182.79	24.316		
8,800.00	6,083.00	16,242.00	6,103.92	58.70	179.17	-91.52	-169.77	-3,261.41	4,517.25	4,335.60	181.66	24.867		
8,900.00	6,083.00	16,242.00	6,103.92	60.35	179.17	-91.52	-169.77	-3,261.41	4,590.82	4,410.30	180.52	25.431		
9,000.00	6,083.00	16,242.00	6,103.92	62.00	179.17	-91.52	-169.77	-3,261.41	4,665.38	4,485.98	179.39	26.006		
9,100.00	6,083.00	16,242.00	6,103.92	63.66	179.17	-91.52	-169.77	-3,261.41	4,740.87	4,562.59	178.27	26.593		
9,200.00	6,083.00	16,242.00	6,103.92	65.33	179.17	-91.52	-169.77	-3,261.41	4,817.25	4,640.09	177.16	27.192		
9,300.00	6,083.00	16,242.00	6,103.92	67.01	179.17	-91.52	-169.77	-3,261.41	4,894.48	4,718.43	176.06	27.801		
9,400.00	6,083.00	16,242.00	6,103.92	68.69	179.17	-91.52	-169.77	-3,261.41	4,972.53	4,797.56	174.97	28.420		
9,500.00	6,083.00	16,242.00	6,103.92	70.37	179.17	-91.52	-169.77	-3,261.41	5,051.35	4,877.46	173.89	29.050		
9,600.00	6,083.00	16,242.00	6,103.92	72.06	179.17	-91.52	-169.77	-3,261.41	5,130.91	4,958.09	172.82	29.689		
9,700.00	6,083.00	16,242.00	6,103.92	73.75	179.17	-91.52	-169.77	-3,261.41	5,211.17	5,039.40	171.77	30.338		
9,800.00	6,083.00	16,242.00	6,103.92	75.45	179.17	-91.52	-169.77	-3,261.41	5,292.10	5,121.37	170.74	30.996		
9,900.00	6,083.00	16,242.00	6,103.92	77.15	179.17	-91.52	-169.77	-3,261.41	5,373.68	5,203.97	169.71	31.663		
10,000.00	6,083.00	16,242.00	6,103.92	78.85	179.17	-91.52	-169.77	-3,261.41	5,455.87	5,287.16	168.71	32.339		
10,100.00	6,083.00	16,242.00	6,103.92	80.56	179.17	-91.52	-169.77	-3,261.41	5,538.65	5,370.92	167.72	33.023		
10,200.00	6,083.00	16,242.00	6,103.92	82.26	179.17	-91.52	-169.77	-3,261.41	5,621.98	5,455.23	166.75	33.715		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,300.00	6,083.00	16,242.00	6,103.92	83.98	179.17	-91.52	-169.77	-3,261.41	5,705.85	5,540.06	165.80	34.415		
10,400.00	6,083.00	16,242.00	6,103.92	85.69	179.17	-91.52	-169.77	-3,261.41	5,790.24	5,625.38	164.86	35.123		
10,500.00	6,083.00	16,242.00	6,103.92	87.41	179.17	-91.52	-169.77	-3,261.41	5,875.11	5,711.17	163.94	35.838		
10,600.00	6,083.00	16,242.00	6,103.92	89.12	179.17	-91.52	-169.77	-3,261.41	5,960.45	5,797.42	163.03	36.560		
10,700.00	6,083.00	16,242.00	6,103.92	90.85	179.17	-91.52	-169.77	-3,261.41	6,046.24	5,884.10	162.14	37.290		
10,800.00	6,083.00	16,242.00	6,103.92	92.57	179.17	-91.52	-169.77	-3,261.41	6,132.47	5,971.19	161.27	38.026		
10,900.00	6,083.00	16,242.00	6,103.92	94.29	179.17	-91.52	-169.77	-3,261.41	6,219.10	6,058.68	160.42	38.768		
11,000.00	6,083.00	16,242.00	6,103.92	96.02	179.17	-91.52	-169.77	-3,261.41	6,306.13	6,146.55	159.58	39.517		
11,100.00	6,083.00	16,242.00	6,103.92	97.75	179.17	-91.52	-169.77	-3,261.41	6,393.54	6,234.78	158.76	40.272		
11,200.00	6,083.00	16,242.00	6,103.92	99.48	179.17	-91.52	-169.77	-3,261.41	6,481.32	6,323.36	157.95	41.033		
11,300.00	6,083.00	16,242.00	6,103.92	101.21	179.17	-91.52	-169.77	-3,261.41	6,569.44	6,412.28	157.17	41.800		
11,400.00	6,083.00	16,242.00	6,103.92	102.94	179.17	-91.52	-169.77	-3,261.41	6,657.90	6,501.51	156.39	42.572		
11,500.00	6,083.00	16,242.00	6,103.92	104.67	179.17	-91.52	-169.77	-3,261.41	6,746.68	6,591.05	155.63	43.350		
11,600.00	6,083.00	16,242.00	6,103.92	106.41	179.17	-91.52	-169.77	-3,261.41	6,835.77	6,680.88	154.89	44.133		
11,700.00	6,083.00	16,242.00	6,103.92	108.15	179.17	-91.52	-169.77	-3,261.41	6,925.16	6,771.00	154.16	44.921		
11,800.00	6,083.00	16,242.00	6,103.92	109.88	179.17	-91.52	-169.77	-3,261.41	7,014.84	6,861.38	153.45	45.713		
11,900.00	6,083.00	16,242.00	6,103.92	111.62	179.17	-91.52	-169.77	-3,261.41	7,104.79	6,952.03	152.75	46.511		
12,000.00	6,083.00	16,242.00	6,103.92	113.36	179.17	-91.52	-169.77	-3,261.41	7,195.00	7,042.93	152.07	47.314		
12,100.00	6,083.00	16,242.00	6,103.92	115.10	179.17	-91.52	-169.77	-3,261.41	7,285.48	7,134.08	151.40	48.120		
12,200.00	6,083.00	16,242.00	6,103.92	116.85	179.17	-91.52	-169.77	-3,261.41	7,376.19	7,225.45	150.75	48.932		
12,300.00	6,083.00	16,242.00	6,103.92	118.59	179.17	-91.52	-169.77	-3,261.41	7,467.15	7,317.05	150.10	49.747		
12,400.00	6,083.00	16,242.00	6,103.92	120.33	179.17	-91.52	-169.77	-3,261.41	7,558.33	7,408.86	149.47	50.566		
12,500.00	6,083.00	16,242.00	6,103.92	122.08	179.17	-91.52	-169.77	-3,261.41	7,649.74	7,500.88	148.86	51.390		
12,600.00	6,083.00	16,242.00	6,103.92	123.82	179.17	-91.52	-169.77	-3,261.41	7,741.35	7,593.10	148.25	52.217		
12,700.00	6,083.00	16,242.00	6,103.92	125.57	179.17	-91.52	-169.77	-3,261.41	7,833.18	7,685.51	147.66	53.048		
12,800.00	6,083.00	16,242.00	6,103.92	127.32	179.17	-91.52	-169.77	-3,261.41	7,925.20	7,778.11	147.08	53.882		
12,900.00	6,083.00	16,242.00	6,103.92	129.07	179.17	-91.52	-169.77	-3,261.41	8,017.41	7,870.89	146.52	54.720		
13,000.00	6,083.00	16,242.00	6,103.92	130.81	179.17	-91.52	-169.77	-3,261.41	8,109.80	7,963.84	145.96	55.561		
13,100.00	6,083.00	16,242.00	6,103.92	132.56	179.17	-91.52	-169.77	-3,261.41	8,202.38	8,056.96	145.42	56.406		
13,200.00	6,083.00	16,242.00	6,103.92	134.31	179.17	-91.52	-169.77	-3,261.41	8,295.12	8,150.24	144.88	57.253		
13,300.00	6,083.00	16,242.00	6,103.92	136.06	179.17	-91.52	-169.77	-3,261.41	8,388.03	8,243.67	144.36	58.104		
13,400.00	6,083.00	16,242.00	6,103.92	137.81	179.17	-91.52	-169.77	-3,261.41	8,481.11	8,337.26	143.85	58.958		
13,500.00	6,083.00	16,242.00	6,103.92	139.57	179.17	-91.52	-169.77	-3,261.41	8,574.34	8,430.99	143.35	59.814		
13,600.00	6,083.00	16,242.00	6,103.92	141.32	179.17	-91.52	-169.77	-3,261.41	8,667.72	8,524.86	142.86	60.673		
13,700.00	6,083.00	16,242.00	6,103.92	143.07	179.17	-91.52	-169.77	-3,261.41	8,761.25	8,618.87	142.38	61.535		
13,800.00	6,083.00	16,242.00	6,103.92	144.82	179.17	-91.52	-169.77	-3,261.41	8,854.91	8,713.01	141.91	62.400		
13,900.00	6,083.00	16,242.00	6,103.92	146.58	179.17	-91.52	-169.77	-3,261.41	8,948.72	8,807.27	141.44	63.266		
14,000.00	6,083.00	16,242.00	6,103.92	148.33	179.17	-91.52	-169.77	-3,261.41	9,042.66	8,901.67	140.99	64.136		
14,100.00	6,083.00	16,242.00	6,103.92	150.09	179.17	-91.52	-169.77	-3,261.41	9,136.72	8,996.18	140.55	65.007		
14,200.00	6,083.00	16,242.00	6,103.92	151.84	179.17	-91.52	-169.77	-3,261.41	9,230.92	9,090.80	140.11	65.881		
14,300.00	6,083.00	16,242.00	6,103.92	153.60	179.17	-91.52	-169.77	-3,261.41	9,325.23	9,185.54	139.69	66.757		
14,400.00	6,083.00	16,242.00	6,103.92	155.35	179.17	-91.52	-169.77	-3,261.41	9,419.66	9,280.39	139.27	67.635		
14,500.00	6,083.00	16,242.00	6,103.92	157.11	179.17	-91.52	-169.77	-3,261.41	9,514.20	9,375.34	138.86	68.515		
14,600.00	6,083.00	16,242.00	6,103.92	158.87	179.17	-91.52	-169.77	-3,261.41	9,608.86	9,470.39	138.46	69.397		
14,700.00	6,083.00	16,242.00	6,103.92	160.62	179.17	-91.52	-169.77	-3,261.41	9,703.62	9,565.55	138.07	70.281		
14,800.00	6,083.00	16,242.00	6,103.92	162.38	179.17	-91.52	-169.77	-3,261.41	9,798.48	9,660.80	137.68	71.166		
14,900.00	6,083.00	16,242.00	6,103.92	164.14	179.17	-91.52	-169.77	-3,261.41	9,893.45	9,756.14	137.31	72.053		
15,000.00	6,083.00	16,242.00	6,103.92	165.90	179.17	-91.52	-169.77	-3,261.41	9,988.52	9,851.58	136.94	72.942		
15,100.00	6,083.00	16,242.00	6,103.92	167.66	179.17	-91.52	-169.77	-3,261.41	10,083.68	9,947.10	136.57	73.833		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
0.00	0.00	16,091.00	6,093.77	0.00	178.75	-96.40	-224.96	-2,004.76	6,475.05					
100.00	100.00	16,091.00	6,093.77	0.27	178.75	-96.40	-224.96	-2,004.76	6,380.10	6,283.11	96.99	65.784		
200.00	200.00	16,091.00	6,093.77	0.63	178.75	-96.40	-224.96	-2,004.76	6,285.31	6,187.91	97.40	64.529		
300.00	300.00	16,091.00	6,093.77	0.99	178.75	-96.40	-224.96	-2,004.76	6,190.68	6,092.84	97.85	63.269		
400.00	400.00	16,091.00	6,093.77	1.34	178.75	-96.40	-224.96	-2,004.76	6,096.23	5,997.91	98.32	62.004		
500.00	499.98	16,091.00	6,093.77	1.70	178.75	-56.74	-224.96	-2,004.76	6,001.61	5,902.80	98.81	60.737		
600.00	599.88	16,091.00	6,093.77	2.06	178.75	-58.21	-224.96	-2,004.76	5,906.70	5,807.39	99.31	59.477		
700.00	699.78	16,091.00	6,093.77	2.42	178.75	-58.21	-224.96	-2,004.76	5,811.93	5,712.10	99.82	58.222		
800.00	799.68	16,091.00	6,093.77	2.78	178.75	-58.21	-224.96	-2,004.76	5,717.34	5,616.97	100.37	56.965		
900.00	899.58	16,091.00	6,093.77	3.14	178.75	-58.21	-224.96	-2,004.76	5,622.93	5,521.99	100.94	55.707		
1,000.00	999.48	16,091.00	6,093.77	3.50	178.75	-58.21	-224.96	-2,004.76	5,528.72	5,427.18	101.54	54.448		
1,100.00	1,099.38	16,091.00	6,093.77	3.87	178.75	-58.21	-224.96	-2,004.76	5,434.72	5,332.55	102.17	53.191		
1,200.00	1,199.28	16,091.00	6,093.77	4.23	178.75	-58.21	-224.96	-2,004.76	5,340.94	5,238.10	102.84	51.934		
1,300.00	1,299.18	16,091.00	6,093.77	4.59	178.75	-58.21	-224.96	-2,004.76	5,247.39	5,143.85	103.54	50.680		
1,400.00	1,399.08	16,091.00	6,093.77	4.96	178.75	-58.21	-224.96	-2,004.76	5,154.08	5,049.80	104.27	49.428		
1,500.00	1,498.97	16,091.00	6,093.77	5.32	178.75	-58.21	-224.96	-2,004.76	5,061.02	4,955.98	105.04	48.180		
1,600.00	1,598.87	16,091.00	6,093.77	5.69	178.75	-58.21	-224.96	-2,004.76	4,968.24	4,862.39	105.85	46.936		
1,700.00	1,698.77	16,091.00	6,093.77	6.05	178.75	-58.21	-224.96	-2,004.76	4,875.74	4,769.04	106.70	45.698		
1,800.00	1,798.67	16,091.00	6,093.77	6.42	178.75	-58.21	-224.96	-2,004.76	4,783.54	4,675.96	107.58	44.465		
1,900.00	1,898.57	16,091.00	6,093.77	6.78	178.75	-58.21	-224.96	-2,004.76	4,691.66	4,583.15	108.51	43.238		
2,000.00	1,998.47	16,091.00	6,093.77	7.15	178.75	-58.21	-224.96	-2,004.76	4,600.12	4,490.64	109.48	42.019		
2,100.00	2,098.37	16,091.00	6,093.77	7.51	178.75	-58.21	-224.96	-2,004.76	4,508.94	4,398.44	110.49	40.807		
2,200.00	2,198.27	16,091.00	6,093.77	7.87	178.75	-58.21	-224.96	-2,004.76	4,418.14	4,306.58	111.56	39.604		
2,300.00	2,298.17	16,091.00	6,093.77	8.24	178.75	-58.21	-224.96	-2,004.76	4,327.75	4,215.07	112.67	38.410		
2,400.00	2,398.06	16,091.00	6,093.77	8.60	178.75	-58.21	-224.96	-2,004.76	4,237.78	4,123.94	113.84	37.226		
2,500.00	2,497.96	16,091.00	6,093.77	8.97	178.75	-58.21	-224.96	-2,004.76	4,148.28	4,033.22	115.06	36.052		
2,600.00	2,597.86	16,091.00	6,093.77	9.33	178.75	-58.21	-224.96	-2,004.76	4,059.27	3,942.93	116.34	34.890		
2,700.00	2,697.76	16,091.00	6,093.77	9.70	178.75	-58.21	-224.96	-2,004.76	3,970.78	3,853.10	117.69	33.740		
2,800.00	2,797.66	16,091.00	6,093.77	10.06	178.75	-58.21	-224.96	-2,004.76	3,882.85	3,763.76	119.09	32.603		
2,900.00	2,897.56	16,091.00	6,093.77	10.43	178.75	-58.21	-224.96	-2,004.76	3,795.52	3,674.95	120.57	31.480		
3,000.00	2,997.46	16,091.00	6,093.77	10.79	178.75	-58.21	-224.96	-2,004.76	3,708.83	3,586.71	122.11	30.372		
3,100.00	3,097.36	16,091.00	6,093.77	11.16	178.75	-58.21	-224.96	-2,004.76	3,622.82	3,499.09	123.73	29.279		
3,200.00	3,197.25	16,091.00	6,093.77	11.52	178.75	-58.21	-224.96	-2,004.76	3,537.55	3,412.12	125.43	28.203		
3,300.00	3,297.15	16,091.00	6,093.77	11.89	178.75	-58.21	-224.96	-2,004.76	3,453.07	3,325.86	127.21	27.144		
3,400.00	3,397.05	16,091.00	6,093.77	12.25	178.75	-58.21	-224.96	-2,004.76	3,369.44	3,240.36	129.08	26.104		
3,500.00	3,496.95	16,091.00	6,093.77	12.62	178.75	-58.21	-224.96	-2,004.76	3,286.72	3,155.69	131.03	25.083		
3,600.00	3,596.85	16,091.00	6,093.77	12.98	178.75	-58.21	-224.96	-2,004.76	3,204.99	3,071.91	133.08	24.083		
3,700.00	3,696.75	16,091.00	6,093.77	13.35	178.75	-58.21	-224.96	-2,004.76	3,124.33	2,989.10	135.22	23.105		
3,800.00	3,796.65	16,091.00	6,093.77	13.72	178.75	-58.21	-224.96	-2,004.76	3,044.81	2,907.34	137.46	22.150		
3,900.00	3,896.55	16,091.00	6,093.77	14.08	178.75	-58.21	-224.96	-2,004.76	2,966.52	2,826.72	139.80	21.220		
4,000.00	3,996.45	16,091.00	6,093.77	14.45	178.75	-58.21	-224.96	-2,004.76	2,889.58	2,747.34	142.24	20.314		
4,100.00	4,096.34	16,091.00	6,093.77	14.81	178.75	-58.21	-224.96	-2,004.76	2,814.09	2,669.30	144.79	19.436		
4,200.00	4,196.24	16,091.00	6,093.77	15.18	178.75	-58.21	-224.96	-2,004.76	2,740.18	2,592.74	147.44	18.585		
4,300.00	4,296.14	16,091.00	6,093.77	15.54	178.75	-58.21	-224.96	-2,004.76	2,667.96	2,517.77	150.19	17.764		
4,400.00	4,396.04	16,091.00	6,093.77	15.91	178.75	-58.21	-224.96	-2,004.76	2,597.58	2,444.55	153.03	16.974		
4,500.00	4,495.94	16,091.00	6,093.77	16.27	178.75	-58.21	-224.96	-2,004.76	2,529.20	2,373.23	155.97	16.216		
4,600.00	4,595.84	16,091.00	6,093.77	16.64	178.75	-58.21	-224.96	-2,004.76	2,462.98	2,303.99	158.99	15.491		
4,700.00	4,695.74	16,091.00	6,093.77	17.00	178.75	-58.21	-224.96	-2,004.76	2,399.11	2,237.02	162.08	14.802		
4,800.00	4,795.64	16,091.00	6,093.77	17.37	178.75	-58.21	-224.96	-2,004.76	2,337.76	2,172.53	165.23	14.148		
4,900.00	4,895.54	16,091.00	6,093.77	17.73	178.75	-58.21	-224.96	-2,004.76	2,279.16	2,110.74	168.42	13.533		
5,000.00	4,995.43	16,091.00	6,093.77	18.10	178.75	-58.21	-224.96	-2,004.76	2,223.51	2,051.89	171.62	12.956		
5,100.00	5,095.33	16,091.00	6,093.77	18.46	178.75	-58.21	-224.96	-2,004.76	2,171.04	1,996.24	174.81	12.419		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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	5,195.23	16,091.00	6,093.77	18.83	178.75	-58.21	-224.96	-2,004.76	2,122.00	1,944.04	177.95	11.925		
5,300.00	5,295.13	16,091.00	6,093.77	19.19	178.75	-58.21	-224.96	-2,004.76	2,076.61	1,895.60	181.01	11.472		
5,400.00	5,395.03	16,091.00	6,093.77	19.56	178.75	-58.21	-224.96	-2,004.76	2,035.12	1,851.18	183.94	11.064		
5,500.00	5,494.93	16,091.00	6,093.77	19.92	178.75	-58.21	-224.96	-2,004.76	1,997.79	1,811.09	186.70	10.701		
5,600.00	5,594.56	16,091.00	6,093.77	20.29	178.75	-92.81	-224.96	-2,004.76	1,965.70	1,776.51	189.18	10.390		
5,700.00	5,691.64	16,091.00	6,093.77	20.69	178.75	-101.54	-224.96	-2,004.76	1,942.38	1,751.28	191.10	10.164		
5,800.00	5,783.21	16,091.00	6,093.77	21.10	178.75	-104.72	-224.96	-2,004.76	1,929.09	1,736.75	192.33	10.030		
5,874.65	5,846.31	16,091.00	6,093.77	21.44	178.75	-105.72	-224.96	-2,004.76	1,926.08	1,733.33	192.75	9.992 CC, ES		
5,900.00	5,866.49	16,091.00	6,093.77	21.55	178.75	-105.86	-224.96	-2,004.76	1,926.43	1,733.64	192.79	9.992 SF		
6,000.00	5,938.95	16,091.00	6,093.77	22.06	178.75	-105.58	-224.96	-2,004.76	1,934.52	1,742.06	192.47	10.051		
6,100.00	5,998.39	16,091.00	6,093.77	22.64	178.75	-104.08	-224.96	-2,004.76	1,953.00	1,761.59	191.42	10.203		
6,200.00	6,043.00	16,091.00	6,093.77	23.31	178.75	-101.43	-224.96	-2,004.76	1,981.03	1,791.28	189.74	10.441		
6,300.00	6,071.42	16,091.00	6,093.77	24.06	178.75	-97.70	-224.96	-2,004.76	2,017.36	1,829.79	187.57	10.755		
6,400.00	6,082.79	16,091.00	6,093.77	24.89	178.75	-92.99	-224.96	-2,004.76	2,060.50	1,875.45	185.04	11.135		
6,500.00	6,083.00	16,091.00	6,093.77	25.78	178.75	-92.19	-224.96	-2,004.76	2,108.52	1,926.19	182.33	11.565		
6,600.00	6,083.00	16,091.00	6,093.77	26.77	178.75	-92.19	-224.96	-2,004.76	2,160.12	1,980.59	179.53	12.032		
6,700.00	6,083.00	16,091.00	6,093.77	27.83	178.75	-92.19	-224.96	-2,004.76	2,215.03	2,038.36	176.67	12.538		
6,800.00	6,083.00	16,091.00	6,093.77	28.96	178.75	-92.19	-224.96	-2,004.76	2,273.02	2,099.24	173.78	13.080		
6,900.00	6,083.00	16,091.00	6,093.77	30.15	178.75	-92.19	-224.96	-2,004.76	2,333.86	2,162.97	170.89	13.657		
7,000.00	6,083.00	16,091.00	6,093.77	31.40	178.75	-92.19	-224.96	-2,004.76	2,397.32	2,229.32	168.00	14.270		
7,100.00	6,083.00	16,091.00	6,093.77	32.70	178.75	-92.19	-224.96	-2,004.76	2,463.21	2,298.07	165.15	14.915		
7,200.00	6,083.00	16,091.00	6,093.77	34.04	178.75	-92.19	-224.96	-2,004.76	2,531.34	2,369.01	162.33	15.594		
7,300.00	6,083.00	16,091.00	6,093.77	35.42	178.75	-92.19	-224.96	-2,004.76	2,601.53	2,441.96	159.57	16.303		
7,400.00	6,083.00	16,091.00	6,093.77	36.83	178.75	-92.19	-224.96	-2,004.76	2,673.61	2,516.74	156.87	17.043		
7,500.00	6,083.00	16,091.00	6,093.77	38.27	178.75	-92.19	-224.96	-2,004.76	2,747.45	2,593.21	154.24	17.813		
7,600.00	6,083.00	16,091.00	6,093.77	39.74	178.75	-92.19	-224.96	-2,004.76	2,822.90	2,671.21	151.68	18.610		
7,700.00	6,083.00	16,091.00	6,093.77	41.23	178.75	-92.19	-224.96	-2,004.76	2,899.83	2,750.63	149.20	19.436		
7,800.00	6,083.00	16,091.00	6,093.77	42.75	178.75	-92.19	-224.96	-2,004.76	2,978.13	2,831.33	146.80	20.287		
7,900.00	6,083.00	16,091.00	6,093.77	44.28	178.75	-92.19	-224.96	-2,004.76	3,057.70	2,913.22	144.48	21.164		
8,000.00	6,083.00	16,091.00	6,093.77	45.83	178.75	-92.19	-224.96	-2,004.76	3,138.44	2,996.20	142.23	22.065		
8,100.00	6,083.00	16,091.00	6,093.77	47.40	178.75	-92.19	-224.96	-2,004.76	3,220.26	3,080.19	140.07	22.990		
8,200.00	6,083.00	16,091.00	6,093.77	48.98	178.75	-92.19	-224.96	-2,004.76	3,303.08	3,165.09	137.99	23.938		
8,300.00	6,083.00	16,091.00	6,093.77	50.57	178.75	-92.19	-224.96	-2,004.76	3,386.82	3,250.85	135.98	24.908		
8,400.00	6,083.00	16,091.00	6,093.77	52.18	178.75	-92.19	-224.96	-2,004.76	3,471.43	3,337.39	134.04	25.898		
8,500.00	6,083.00	16,091.00	6,093.77	53.79	178.75	-92.19	-224.96	-2,004.76	3,556.84	3,424.66	132.18	26.909		
8,600.00	6,083.00	16,091.00	6,093.77	55.42	178.75	-92.19	-224.96	-2,004.76	3,642.99	3,512.60	130.39	27.939		
8,700.00	6,083.00	16,091.00	6,093.77	57.05	178.75	-92.19	-224.96	-2,004.76	3,729.83	3,601.17	128.67	28.989		
8,800.00	6,083.00	16,091.00	6,093.77	58.70	178.75	-92.19	-224.96	-2,004.76	3,817.32	3,690.31	127.01	30.056		
8,900.00	6,083.00	16,091.00	6,093.77	60.35	178.75	-92.19	-224.96	-2,004.76	3,905.40	3,779.99	125.41	31.140		
9,000.00	6,083.00	16,091.00	6,093.77	62.00	178.75	-92.19	-224.96	-2,004.76	3,994.05	3,870.17	123.88	32.241		
9,100.00	6,083.00	16,091.00	6,093.77	63.66	178.75	-92.19	-224.96	-2,004.76	4,083.22	3,960.82	122.40	33.359		
9,200.00	6,083.00	16,091.00	6,093.77	65.33	178.75	-92.19	-224.96	-2,004.76	4,172.88	4,051.90	120.98	34.491		
9,300.00	6,083.00	16,091.00	6,093.77	67.01	178.75	-92.19	-224.96	-2,004.76	4,263.01	4,143.39	119.62	35.638		
9,400.00	6,083.00	16,091.00	6,093.77	68.69	178.75	-92.19	-224.96	-2,004.76	4,353.56	4,235.26	118.30	36.800		
9,500.00	6,083.00	16,091.00	6,093.77	70.37	178.75	-92.19	-224.96	-2,004.76	4,444.52	4,327.48	117.04	37.975		
9,600.00	6,083.00	16,091.00	6,093.77	72.06	178.75	-92.19	-224.96	-2,004.76	4,535.86	4,420.04	115.82	39.163		
9,700.00	6,083.00	16,091.00	6,093.77	73.75	178.75	-92.19	-224.96	-2,004.76	4,627.55	4,512.91	114.65	40.364		
9,800.00	6,083.00	16,091.00	6,093.77	75.45	178.75	-92.19	-224.96	-2,004.76	4,719.59	4,606.07	113.52	41.576		
9,900.00	6,083.00	16,091.00	6,093.77	77.15	178.75	-92.19	-224.96	-2,004.76	4,811.94	4,699.51	112.43	42.800		
10,000.00	6,083.00	16,091.00	6,093.77	78.85	178.75	-92.19	-224.96	-2,004.76	4,904.60	4,793.22	111.38	44.035		
10,100.00	6,083.00	16,091.00	6,093.77	80.56	178.75	-92.19	-224.96	-2,004.76	4,997.53	4,887.16	110.37	45.281		
10,200.00	6,083.00	16,091.00	6,093.77	82.26	178.75	-92.19	-224.96	-2,004.76	5,090.73	4,981.34	109.39	46.537		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,300.00	6,083.00	16,091.00	6,093.77	83.98	178.75	-92.19	-224.96	-2,004.76	5,184.19	5,075.74	108.45	47.802		
10,400.00	6,083.00	16,091.00	6,093.77	85.69	178.75	-92.19	-224.96	-2,004.76	5,277.89	5,170.35	107.54	49.077		
10,500.00	6,083.00	16,091.00	6,093.77	87.41	178.75	-92.19	-224.96	-2,004.76	5,371.81	5,265.14	106.67	50.360		
10,600.00	6,083.00	16,091.00	6,093.77	89.12	178.75	-92.19	-224.96	-2,004.76	5,465.95	5,360.13	105.82	51.652		
10,700.00	6,083.00	16,091.00	6,093.77	90.85	178.75	-92.19	-224.96	-2,004.76	5,560.30	5,455.29	105.01	52.952		
10,800.00	6,083.00	16,091.00	6,093.77	92.57	178.75	-92.19	-224.96	-2,004.76	5,654.83	5,550.62	104.22	54.260		
10,900.00	6,083.00	16,091.00	6,093.77	94.29	178.75	-92.19	-224.96	-2,004.76	5,749.56	5,646.10	103.46	55.575		
11,000.00	6,083.00	16,091.00	6,093.77	96.02	178.75	-92.19	-224.96	-2,004.76	5,844.46	5,741.74	102.72	56.897		
11,100.00	6,083.00	16,091.00	6,093.77	97.75	178.75	-92.19	-224.96	-2,004.76	5,939.52	5,837.51	102.01	58.225		
11,200.00	6,083.00	16,091.00	6,093.77	99.48	178.75	-92.19	-224.96	-2,004.76	6,034.75	5,933.43	101.32	59.560		
11,300.00	6,083.00	16,091.00	6,093.77	101.21	178.75	-92.19	-224.96	-2,004.76	6,130.13	6,029.47	100.66	60.901		
11,400.00	6,083.00	16,091.00	6,093.77	102.94	178.75	-92.19	-224.96	-2,004.76	6,225.65	6,125.64	100.01	62.248		
11,500.00	6,083.00	16,091.00	6,093.77	104.67	178.75	-92.19	-224.96	-2,004.76	6,321.31	6,221.92	99.39	63.600		
11,600.00	6,083.00	16,091.00	6,093.77	106.41	178.75	-92.19	-224.96	-2,004.76	6,417.11	6,318.32	98.79	64.957		
11,700.00	6,083.00	16,091.00	6,093.77	108.15	178.75	-92.19	-224.96	-2,004.76	6,513.03	6,414.82	98.21	66.319		
11,800.00	6,083.00	16,091.00	6,093.77	109.88	178.75	-92.19	-224.96	-2,004.76	6,609.07	6,511.42	97.64	67.685		
11,900.00	6,083.00	16,091.00	6,093.77	111.62	178.75	-92.19	-224.96	-2,004.76	6,705.23	6,608.13	97.10	69.056		
12,000.00	6,083.00	16,091.00	6,093.77	113.36	178.75	-92.19	-224.96	-2,004.76	6,801.49	6,704.92	96.57	70.431		
12,100.00	6,083.00	16,091.00	6,093.77	115.10	178.75	-92.19	-224.96	-2,004.76	6,897.87	6,801.81	96.06	71.810		
12,200.00	6,083.00	16,091.00	6,093.77	116.85	178.75	-92.19	-224.96	-2,004.76	6,994.34	6,898.78	95.56	73.192		
12,300.00	6,083.00	16,091.00	6,093.77	118.59	178.75	-92.19	-224.96	-2,004.76	7,090.92	6,995.84	95.08	74.578		
12,400.00	6,083.00	16,091.00	6,093.77	120.33	178.75	-92.19	-224.96	-2,004.76	7,187.58	7,092.97	94.61	75.967		
12,500.00	6,083.00	16,091.00	6,093.77	122.08	178.75	-92.19	-224.96	-2,004.76	7,284.34	7,190.18	94.16	77.359		
12,600.00	6,083.00	16,091.00	6,093.77	123.82	178.75	-92.19	-224.96	-2,004.76	7,381.18	7,287.46	93.73	78.753		
12,700.00	6,083.00	16,091.00	6,093.77	125.57	178.75	-92.19	-224.96	-2,004.76	7,478.11	7,384.81	93.30	80.150		
12,800.00	6,083.00	16,091.00	6,093.77	127.32	178.75	-92.19	-224.96	-2,004.76	7,575.12	7,482.23	92.89	81.549		
12,900.00	6,083.00	16,091.00	6,093.77	129.07	178.75	-92.19	-224.96	-2,004.76	7,672.20	7,579.71	92.49	82.951		
13,000.00	6,083.00	16,091.00	6,093.77	130.81	178.75	-92.19	-224.96	-2,004.76	7,769.36	7,677.26	92.10	84.354		
13,100.00	6,083.00	16,091.00	6,093.77	132.56	178.75	-92.19	-224.96	-2,004.76	7,866.59	7,774.86	91.73	85.760		
13,200.00	6,083.00	16,091.00	6,093.77	134.31	178.75	-92.19	-224.96	-2,004.76	7,963.89	7,872.52	91.36	87.166		
13,300.00	6,083.00	16,091.00	6,093.77	136.06	178.75	-92.19	-224.96	-2,004.76	8,061.25	7,970.24	91.01	88.575		
13,400.00	6,083.00	16,091.00	6,093.77	137.81	178.75	-92.19	-224.96	-2,004.76	8,158.68	8,068.01	90.67	89.984		
13,500.00	6,083.00	16,091.00	6,093.77	139.57	178.75	-92.19	-224.96	-2,004.76	8,256.16	8,165.83	90.34	91.395		
13,600.00	6,083.00	16,091.00	6,093.77	141.32	178.75	-92.19	-224.96	-2,004.76	8,353.71	8,263.70	90.01	92.806		
13,700.00	6,083.00	16,091.00	6,093.77	143.07	178.75	-92.19	-224.96	-2,004.76	8,451.32	8,361.62	89.70	94.219		
13,800.00	6,083.00	16,091.00	6,093.77	144.82	178.75	-92.19	-224.96	-2,004.76	8,548.98	8,459.58	89.39	95.632		
13,900.00	6,083.00	16,091.00	6,093.77	146.58	178.75	-92.19	-224.96	-2,004.76	8,646.69	8,557.59	89.10	97.045		
14,000.00	6,083.00	16,091.00	6,093.77	148.33	178.75	-92.19	-224.96	-2,004.76	8,744.46	8,655.65	88.81	98.460		
14,100.00	6,083.00	16,091.00	6,093.77	150.09	178.75	-92.19	-224.96	-2,004.76	8,842.28	8,753.74	88.53	99.874		
14,200.00	6,083.00	16,091.00	6,093.77	151.84	178.75	-92.19	-224.96	-2,004.76	8,940.14	8,851.88	88.26	101.288		
14,300.00	6,083.00	16,091.00	6,093.77	153.60	178.75	-92.19	-224.96	-2,004.76	9,038.05	8,950.05	88.00	102.703		
14,400.00	6,083.00	16,091.00	6,093.77	155.35	178.75	-92.19	-224.96	-2,004.76	9,136.01	9,048.26	87.75	104.117		
14,500.00	6,083.00	16,091.00	6,093.77	157.11	178.75	-92.19	-224.96	-2,004.76	9,234.01	9,146.51	87.50	105.532		
14,600.00	6,083.00	16,091.00	6,093.77	158.87	178.75	-92.19	-224.96	-2,004.76	9,332.05	9,244.79	87.26	106.945		
14,700.00	6,083.00	16,091.00	6,093.77	160.62	178.75	-92.19	-224.96	-2,004.76	9,430.13	9,343.11	87.03	108.359		
14,800.00	6,083.00	16,091.00	6,093.77	162.38	178.75	-92.19	-224.96	-2,004.76	9,528.26	9,441.46	86.80	109.772		
14,900.00	6,083.00	16,091.00	6,093.77	164.14	178.75	-92.19	-224.96	-2,004.76	9,626.42	9,539.84	86.58	111.184		
15,000.00	6,083.00	16,091.00	6,093.77	165.90	178.75	-92.19	-224.96	-2,004.76	9,724.62	9,638.25	86.37	112.596		
15,100.00	6,083.00	16,091.00	6,093.77	167.66	178.75	-92.19	-224.96	-2,004.76	9,822.85	9,736.69	86.16	114.007		
15,200.00	6,083.00	16,091.00	6,093.77	169.42	178.75	-92.19	-224.96	-2,004.76	9,921.13	9,835.17	85.96	115.417		
15,300.00	6,083.00	16,091.00	6,093.77	171.17	178.75	-92.19	-224.96	-2,004.76	10,019.43	9,933.67	85.76	116.825		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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	0.00	0.00	0.00	0.00	-69.91	58.66	-160.34	170.97				
100.00	100.00	91.32	91.32	0.27	0.16	-69.92	58.60	-160.27	170.65	170.22	0.43	399.496	
200.00	200.00	191.67	191.67	0.63	0.33	-69.95	58.40	-160.03	170.36	169.40	0.96	177.541	
300.00	300.00	292.01	292.01	0.99	0.51	-70.01	58.07	-159.63	169.87	168.37	1.49	113.858	
400.00	400.00	392.36	392.35	1.34	0.68	-70.09	57.59	-159.06	169.17	167.14	2.02	83.571	
500.00	499.98	492.66	492.65	1.70	0.85	-26.08	56.98	-158.31	166.70	164.14	2.55	65.244	
600.00	599.88	592.68	592.66	2.06	1.20	-26.84	56.44	-157.39	161.75	158.49	3.26	49.682	
700.00	699.78	692.68	692.66	2.42	1.56	-27.53	56.21	-156.25	156.60	152.63	3.97	39.466	
800.00	799.68	792.46	792.43	2.78	1.91	-28.17	56.21	-155.01	151.44	146.76	4.68	32.355	
900.00	899.58	892.20	892.17	3.14	2.27	-28.86	56.21	-153.84	146.37	140.97	5.39	27.137	
1,000.00	999.48	992.15	992.11	3.50	2.63	-29.66	56.10	-152.71	141.33	135.22	6.11	23.133	
1,100.00	1,099.38	1,092.07	1,092.02	3.87	2.99	-30.62	55.70	-151.60	136.25	129.43	6.83	19.962	
1,200.00	1,199.28	1,191.43	1,191.37	4.23	3.34	-31.73	55.14	-150.54	131.23	123.69	7.54	17.406	
1,300.00	1,299.18	1,288.18	1,288.11	4.59	3.67	-33.39	53.84	-151.09	127.70	119.47	8.23	15.510	
1,355.90	1,355.02	1,341.43	1,341.32	4.80	3.85	-34.67	52.63	-152.78	127.10	118.49	8.61	14.758 CC, ES	
1,400.00	1,399.08	1,383.61	1,383.43	4.96	4.00	-35.87	51.44	-154.92	127.46	118.55	8.91	14.306	
1,500.00	1,498.97	1,479.47	1,478.97	5.32	4.32	-38.91	48.18	-161.98	130.72	121.14	9.58	13.641	
1,600.00	1,598.87	1,575.94	1,574.87	5.69	4.65	-41.86	44.96	-171.83	137.19	126.93	10.26	13.375	
1,700.00	1,698.77	1,672.05	1,670.17	6.05	4.99	-45.22	40.06	-183.28	145.73	134.80	10.93	13.334	
1,800.00	1,798.67	1,764.78	1,761.59	6.42	5.33	-48.34	34.55	-197.75	158.45	146.89	11.56	13.706	
1,900.00	1,898.57	1,860.08	1,855.06	6.78	5.71	-50.84	29.34	-215.61	174.70	162.48	12.22	14.294	
2,000.00	1,998.47	1,957.85	1,950.80	7.15	6.11	-53.31	22.81	-234.30	191.80	178.88	12.92	14.847	
2,100.00	2,098.37	2,054.05	2,044.80	7.51	6.52	-55.69	15.02	-253.22	210.00	196.39	13.60	15.440	
2,200.00	2,198.27	2,152.79	2,141.18	7.87	6.95	-57.67	7.20	-273.18	229.00	214.68	14.32	15.992	
2,300.00	2,298.17	2,250.66	2,236.94	8.24	7.39	-59.11	0.62	-292.30	247.27	232.24	15.03	16.452	
2,400.00	2,398.06	2,345.28	2,329.22	8.60	7.83	-60.32	-6.17	-312.07	267.09	251.39	15.70	17.009	
2,500.00	2,497.96	2,443.16	2,424.58	8.97	8.29	-61.61	-14.25	-332.61	287.42	271.00	16.42	17.504	
2,600.00	2,597.86	2,541.53	2,520.47	9.33	8.76	-62.44	-20.86	-353.53	307.68	290.53	17.14	17.946	
2,700.00	2,697.76	2,637.96	2,614.47	9.70	9.23	-63.10	-27.03	-374.14	328.00	310.15	17.85	18.377	
2,800.00	2,797.66	2,737.08	2,710.98	10.06	9.72	-63.73	-33.66	-395.70	348.81	330.22	18.58	18.768	
2,900.00	2,897.56	2,837.38	2,808.87	10.43	10.21	-64.28	-40.03	-416.62	368.67	349.34	19.33	19.068	
3,000.00	2,997.46	2,938.64	2,907.80	10.79	10.70	-64.69	-45.74	-437.49	388.11	368.02	20.09	19.316	
3,100.00	3,097.36	3,039.10	3,006.13	11.16	11.19	-65.11	-51.45	-457.23	406.67	385.83	20.84	19.512	
3,200.00	3,197.25	3,140.28	3,105.28	11.52	11.68	-65.60	-57.73	-476.39	424.76	403.17	21.60	19.667	
3,300.00	3,297.15	3,235.01	3,198.14	11.89	12.13	-66.09	-64.04	-494.05	442.78	420.49	22.29	19.862	
3,400.00	3,397.05	3,327.74	3,288.82	12.25	12.59	-66.62	-71.25	-512.05	461.93	438.96	22.97	20.110	
3,500.00	3,496.95	3,440.42	3,399.14	12.62	13.14	-67.17	-79.48	-533.44	480.61	456.78	23.84	20.163	
3,600.00	3,596.85	3,550.67	3,507.69	12.98	13.65	-67.53	-85.18	-551.81	496.31	471.65	24.66	20.127	
3,700.00	3,696.75	3,673.61	3,629.39	13.35	14.18	-68.02	-91.00	-568.18	508.83	483.29	25.54	19.921	
3,800.00	3,796.65	3,809.22	3,764.54	13.72	14.69	-68.63	-94.97	-578.20	515.12	488.71	26.40	19.509	
3,900.00	3,896.55	3,939.32	3,894.60	14.08	15.09	-69.20	-95.23	-579.63	514.44	487.31	27.13	18.960	
4,000.00	3,996.45	4,040.81	3,996.08	14.45	15.37	-69.55	-93.56	-578.67	511.33	483.51	27.82	18.379	
4,100.00	4,096.34	4,143.09	4,098.32	14.81	15.66	-69.82	-90.99	-577.72	507.89	479.38	28.51	17.815	
4,200.00	4,196.24	4,246.67	4,201.82	15.18	15.95	-69.97	-87.15	-576.57	503.81	474.62	29.20	17.256	
4,300.00	4,296.14	4,341.57	4,296.63	15.54	16.22	-70.04	-82.98	-575.52	499.47	469.58	29.90	16.708	
4,400.00	4,396.04	4,433.64	4,388.66	15.91	16.50	-70.27	-80.95	-575.61	497.09	466.49	30.60	16.245	
4,500.00	4,495.94	4,531.51	4,486.52	16.27	16.80	-70.55	-79.35	-576.22	495.46	464.16	31.30	15.828	
4,600.00	4,595.84	4,631.24	4,586.23	16.64	17.11	-70.83	-77.79	-577.16	494.17	462.16	32.01	15.438	
4,700.00	4,695.74	4,732.80	4,687.76	17.00	17.43	-71.06	-75.63	-578.14	492.66	459.94	32.72	15.058	
4,800.00	4,795.64	4,834.46	4,789.41	17.37	17.75	-71.32	-73.54	-578.71	490.82	457.40	33.42	14.686	
4,900.00	4,895.54	4,935.83	4,890.77	17.73	18.05	-71.86	-73.52	-577.90	488.68	454.55	34.12	14.320	
5,000.00	4,995.43	5,035.17	4,990.10	18.10	18.36	-72.44	-73.71	-576.85	486.44	451.61	34.83	13.966	

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 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		
5,100.00	5,095.33	5,133.88	5,088.81	18.46	18.65	-73.02	-74.05	-575.98	484.47	448.93	35.53	13.634		
5,200.00	5,195.23	5,233.61	5,188.54	18.83	18.96	-73.63	-74.60	-575.14	482.70	446.45	36.24	13.319		
5,300.00	5,295.13	5,333.51	5,288.42	19.19	19.27	-74.30	-75.52	-574.11	480.98	444.02	36.95	13.017		
5,400.00	5,395.03	5,431.89	5,386.80	19.56	19.58	-74.98	-76.63	-573.12	479.45	441.79	37.66	12.730		
5,500.00	5,494.93	5,530.20	5,485.10	19.92	19.89	-75.65	-77.77	-572.48	478.32	439.95	38.37	12.465		
5,516.27	5,511.18	5,546.55	5,501.44	19.98	19.94	-88.53	-78.00	-572.38	478.24	439.75	38.49	12.425		
5,600.00	5,594.56	5,625.52	5,580.37	20.29	20.19	-109.22	-80.38	-571.17	479.46	440.36	39.10	12.263 SF		
5,700.00	5,691.64	5,703.00	5,657.18	20.69	20.44	-117.54	-89.65	-568.49	493.10	453.28	39.82	12.384		
5,800.00	5,783.21	5,750.00	5,702.94	21.10	20.59	-119.75	-100.09	-566.20	523.77	483.47	40.30	12.997		
5,900.00	5,866.49	5,798.00	5,748.87	21.55	20.75	-119.87	-113.80	-563.89	572.42	531.73	40.69	14.067		
6,000.00	5,938.95	5,820.03	5,769.69	22.06	20.83	-115.18	-120.96	-563.10	637.08	596.31	40.77	15.625		
6,100.00	5,998.39	5,845.00	5,793.11	22.64	20.92	-107.42	-129.62	-562.90	714.10	673.10	41.00	17.416		
6,200.00	6,043.00	5,845.00	5,793.11	23.31	20.92	-92.17	-129.62	-562.90	798.50	757.49	41.01	19.471		
6,300.00	6,071.42	5,845.00	5,793.11	24.06	20.92	-73.71	-129.62	-562.90	886.68	845.50	41.19	21.529		
6,400.00	6,082.79	5,825.71	5,775.04	24.89	20.85	-54.42	-122.88	-562.99	974.87	933.63	41.24	23.636		
6,500.00	6,083.00	5,798.00	5,748.87	25.78	20.75	-49.89	-113.80	-563.89	1,062.70	1,021.41	41.29	25.735		
6,600.00	6,083.00	5,798.00	5,748.87	26.77	20.75	-49.89	-113.80	-563.89	1,151.69	1,110.03	41.66	27.648		
6,700.00	6,083.00	5,798.00	5,748.87	27.83	20.75	-49.89	-113.80	-563.89	1,242.35	1,200.39	41.96	29.611		
6,800.00	6,083.00	5,774.59	5,726.57	28.96	20.68	-48.09	-106.76	-565.02	1,333.81	1,291.81	41.99	31.764		
6,900.00	6,083.00	5,750.00	5,702.94	30.15	20.59	-46.30	-100.09	-566.20	1,426.51	1,384.51	42.01	33.960		
7,000.00	6,083.00	5,750.00	5,702.94	31.40	20.59	-46.30	-100.09	-566.20	1,519.62	1,477.40	42.22	35.991		
7,100.00	6,083.00	5,750.00	5,702.94	32.70	20.59	-46.30	-100.09	-566.20	1,613.55	1,571.15	42.41	38.047		
7,200.00	6,083.00	5,750.00	5,702.94	34.04	20.59	-46.30	-100.09	-566.20	1,708.18	1,665.61	42.57	40.124		
7,300.00	6,083.00	5,732.53	5,686.02	35.42	20.53	-45.08	-95.84	-567.04	1,803.07	1,760.48	42.60	42.327		
7,400.00	6,083.00	5,726.40	5,680.05	36.83	20.51	-44.67	-94.45	-567.34	1,898.52	1,855.83	42.69	44.468		
7,500.00	6,083.00	5,720.72	5,674.51	38.27	20.50	-44.29	-93.21	-567.61	1,994.36	1,951.57	42.78	46.616		
7,600.00	6,083.00	5,703.00	5,657.18	39.74	20.44	-43.14	-89.65	-568.49	2,090.67	2,047.88	42.79	48.857		
7,700.00	6,083.00	5,703.00	5,657.18	41.23	20.44	-43.14	-89.65	-568.49	2,187.04	2,144.14	42.90	50.981		
7,800.00	6,083.00	5,703.00	5,657.18	42.75	20.44	-43.14	-89.65	-568.49	2,283.71	2,240.72	43.00	53.112		
7,900.00	6,083.00	5,703.00	5,657.18	44.28	20.44	-43.14	-89.65	-568.49	2,380.67	2,337.58	43.09	55.249		
8,000.00	6,083.00	5,703.00	5,657.18	45.83	20.44	-43.14	-89.65	-568.49	2,477.86	2,434.69	43.17	57.392		
8,100.00	6,083.00	5,703.00	5,657.18	47.40	20.44	-43.14	-89.65	-568.49	2,575.27	2,532.02	43.25	59.538		
8,200.00	6,083.00	5,703.00	5,657.18	48.98	20.44	-43.14	-89.65	-568.49	2,672.87	2,629.54	43.33	61.688		
8,300.00	6,083.00	5,703.00	5,657.18	50.57	20.44	-43.14	-89.65	-568.49	2,770.64	2,727.24	43.40	63.840		
8,400.00	6,083.00	5,703.00	5,657.18	52.18	20.44	-43.14	-89.65	-568.49	2,868.57	2,825.10	43.47	65.994		
8,500.00	6,083.00	5,703.00	5,657.18	53.79	20.44	-43.14	-89.65	-568.49	2,966.63	2,923.10	43.53	68.148		
8,600.00	6,083.00	5,681.73	5,636.24	55.42	20.37	-41.81	-86.06	-569.45	3,064.35	3,020.84	43.51	70.435		
8,700.00	6,083.00	5,679.49	5,634.03	57.05	20.36	-41.67	-85.73	-569.54	3,162.54	3,118.99	43.56	72.604		
8,800.00	6,083.00	5,677.37	5,631.93	58.70	20.35	-41.55	-85.43	-569.62	3,260.84	3,217.23	43.61	74.771		
8,900.00	6,083.00	5,655.00	5,609.74	60.35	20.28	-40.21	-82.73	-570.39	3,359.67	3,316.09	43.58	77.090		
9,000.00	6,083.00	5,655.00	5,609.74	62.00	20.28	-40.21	-82.73	-570.39	3,458.06	3,414.42	43.64	79.239		
9,100.00	6,083.00	5,655.00	5,609.74	63.66	20.28	-40.21	-82.73	-570.39	3,556.55	3,512.85	43.70	81.387		
9,200.00	6,083.00	5,655.00	5,609.74	65.33	20.28	-40.21	-82.73	-570.39	3,655.12	3,611.36	43.76	83.533		
9,300.00	6,083.00	5,655.00	5,609.74	67.01	20.28	-40.21	-82.73	-570.39	3,753.76	3,709.95	43.81	85.677		
9,400.00	6,083.00	5,655.00	5,609.74	68.69	20.28	-40.21	-82.73	-570.39	3,852.48	3,808.61	43.87	87.819		
9,500.00	6,083.00	5,655.00	5,609.74	70.37	20.28	-40.21	-82.73	-570.39	3,951.25	3,907.33	43.92	89.958		
9,600.00	6,083.00	5,655.00	5,609.74	72.06	20.28	-40.21	-82.73	-570.39	4,050.09	4,006.11	43.98	92.094		
9,700.00	6,083.00	5,655.00	5,609.74	73.75	20.28	-40.21	-82.73	-570.39	4,148.99	4,104.95	44.03	94.227		
9,800.00	6,083.00	5,655.00	5,609.74	75.45	20.28	-40.21	-82.73	-570.39	4,247.93	4,203.85	44.09	96.357		
9,900.00	6,083.00	5,655.00	5,609.74	77.15	20.28	-40.21	-82.73	-570.39	4,346.93	4,302.79	44.14	98.483		
10,000.00	6,083.00	5,655.00	5,609.74	78.85	20.28	-40.21	-82.73	-570.39	4,445.97	4,401.77	44.19	100.605		
10,100.00	6,083.00	5,655.00	5,609.74	80.56	20.28	-40.21	-82.73	-570.39	4,545.05	4,500.80	44.25	102.723		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,200.00	6,083.00	5,655.00	5,609.74	82.26	20.28	-40.21	-82.73	-570.39	4,644.17	4,599.87	44.30	104.837		
10,300.00	6,083.00	5,655.00	5,609.74	83.98	20.28	-40.21	-82.73	-570.39	4,743.32	4,698.97	44.35	106.947		
10,400.00	6,083.00	5,655.00	5,609.74	85.69	20.28	-40.21	-82.73	-570.39	4,842.52	4,798.11	44.41	109.052		
10,500.00	6,083.00	5,655.00	5,609.74	87.41	20.28	-40.21	-82.73	-570.39	4,941.74	4,897.28	44.46	111.153		
10,600.00	6,083.00	5,655.00	5,609.74	89.12	20.28	-40.21	-82.73	-570.39	5,041.00	4,996.48	44.51	113.248		
10,700.00	6,083.00	5,655.00	5,609.74	90.85	20.28	-40.21	-82.73	-570.39	5,140.28	5,095.71	44.57	115.339		
10,800.00	6,083.00	5,655.00	5,609.74	92.57	20.28	-40.21	-82.73	-570.39	5,239.59	5,194.97	44.62	117.424		
10,900.00	6,083.00	5,655.00	5,609.74	94.29	20.28	-40.21	-82.73	-570.39	5,338.93	5,294.25	44.68	119.505		
11,000.00	6,083.00	5,655.00	5,609.74	96.02	20.28	-40.21	-82.73	-570.39	5,438.29	5,393.56	44.73	121.579		
11,100.00	6,083.00	5,655.00	5,609.74	97.75	20.28	-40.21	-82.73	-570.39	5,537.68	5,492.89	44.79	123.649		
11,200.00	6,083.00	5,655.00	5,609.74	99.48	20.28	-40.21	-82.73	-570.39	5,637.08	5,592.24	44.84	125.712		
11,300.00	6,083.00	5,655.00	5,609.74	101.21	20.28	-40.21	-82.73	-570.39	5,736.51	5,691.61	44.90	127.770		
11,400.00	6,083.00	5,655.00	5,609.74	102.94	20.28	-40.21	-82.73	-570.39	5,835.96	5,791.00	44.95	129.822		
11,500.00	6,083.00	5,655.00	5,609.74	104.67	20.28	-40.21	-82.73	-570.39	5,935.42	5,890.41	45.01	131.868		
11,600.00	6,083.00	5,655.00	5,609.74	106.41	20.28	-40.21	-82.73	-570.39	6,034.90	5,989.84	45.07	133.908		
11,700.00	6,083.00	5,655.00	5,609.74	108.15	20.28	-40.21	-82.73	-570.39	6,134.40	6,089.28	45.13	135.942		
11,800.00	6,083.00	5,655.00	5,609.74	109.88	20.28	-40.21	-82.73	-570.39	6,233.92	6,188.73	45.18	137.970		
11,900.00	6,083.00	5,655.00	5,609.74	111.62	20.28	-40.21	-82.73	-570.39	6,333.45	6,288.21	45.24	139.991		
12,000.00	6,083.00	5,655.00	5,609.74	113.36	20.28	-40.21	-82.73	-570.39	6,432.99	6,387.69	45.30	142.006		
12,100.00	6,083.00	5,655.00	5,609.74	115.10	20.28	-40.21	-82.73	-570.39	6,532.55	6,487.19	45.36	144.014		
12,200.00	6,083.00	5,655.00	5,609.74	116.85	20.28	-40.21	-82.73	-570.39	6,632.13	6,586.71	45.42	146.016		
12,300.00	6,083.00	5,655.00	5,609.74	118.59	20.28	-40.21	-82.73	-570.39	6,731.71	6,686.23	45.48	148.011		
12,400.00	6,083.00	5,655.00	5,609.74	120.33	20.28	-40.21	-82.73	-570.39	6,831.31	6,785.77	45.54	149.999		
12,500.00	6,083.00	5,655.00	5,609.74	122.08	20.28	-40.21	-82.73	-570.39	6,930.92	6,885.31	45.60	151.981		
12,600.00	6,083.00	5,655.00	5,609.74	123.82	20.28	-40.21	-82.73	-570.39	7,030.54	6,984.87	45.67	153.956		
12,700.00	6,083.00	5,633.25	5,588.07	125.57	20.21	-38.97	-80.88	-570.99	7,129.81	7,084.14	45.67	156.129		
12,800.00	6,083.00	5,632.62	5,587.44	127.32	20.21	-38.94	-80.83	-571.00	7,229.43	7,183.70	45.73	158.097		
12,900.00	6,083.00	5,632.00	5,586.83	129.07	20.21	-38.90	-80.79	-571.02	7,329.06	7,283.27	45.79	160.059		
13,000.00	6,083.00	5,631.40	5,586.23	130.81	20.21	-38.87	-80.75	-571.03	7,428.70	7,382.84	45.85	162.013		
13,100.00	6,083.00	5,630.82	5,585.65	132.56	20.20	-38.84	-80.71	-571.05	7,528.34	7,482.43	45.92	163.959		
13,200.00	6,083.00	5,630.25	5,585.08	134.31	20.20	-38.81	-80.68	-571.06	7,628.00	7,582.02	45.98	165.899		
13,300.00	6,083.00	5,629.69	5,584.53	136.06	20.20	-38.78	-80.64	-571.08	7,727.67	7,681.62	46.04	167.831		
13,400.00	6,083.00	5,608.00	5,562.87	137.81	20.13	-37.60	-79.57	-571.55	7,827.68	7,781.63	46.05	169.984		
13,500.00	6,083.00	5,608.00	5,562.87	139.57	20.13	-37.60	-79.57	-571.55	7,927.34	7,881.23	46.12	171.897		
13,600.00	6,083.00	5,608.00	5,562.87	141.32	20.13	-37.60	-79.57	-571.55	8,027.02	7,980.83	46.18	173.803		
13,700.00	6,083.00	5,608.00	5,562.87	143.07	20.13	-37.60	-79.57	-571.55	8,126.70	8,080.44	46.25	175.701		
13,800.00	6,083.00	5,608.00	5,562.87	144.82	20.13	-37.60	-79.57	-571.55	8,226.38	8,180.06	46.32	177.592		
13,900.00	6,083.00	5,608.00	5,562.87	146.58	20.13	-37.60	-79.57	-571.55	8,326.08	8,279.69	46.39	179.475		
14,000.00	6,083.00	5,608.00	5,562.87	148.33	20.13	-37.60	-79.57	-571.55	8,425.78	8,379.32	46.46	181.351		
14,100.00	6,083.00	5,608.00	5,562.87	150.09	20.13	-37.60	-79.57	-571.55	8,525.49	8,478.96	46.53	183.220		
14,200.00	6,083.00	5,608.00	5,562.87	151.84	20.13	-37.60	-79.57	-571.55	8,625.21	8,578.61	46.60	185.080		
14,300.00	6,083.00	5,608.00	5,562.87	153.60	20.13	-37.60	-79.57	-571.55	8,724.93	8,678.26	46.67	186.933		
14,400.00	6,083.00	5,608.00	5,562.87	155.35	20.13	-37.60	-79.57	-571.55	8,824.66	8,777.92	46.75	188.779		
14,500.00	6,083.00	5,608.00	5,562.87	157.11	20.13	-37.60	-79.57	-571.55	8,924.40	8,877.58	46.82	190.617		
14,600.00	6,083.00	5,608.00	5,562.87	158.87	20.13	-37.60	-79.57	-571.55	9,024.14	8,977.25	46.89	192.447		
14,700.00	6,083.00	5,608.00	5,562.87	160.62	20.13	-37.60	-79.57	-571.55	9,123.88	9,076.92	46.97	194.269		
14,800.00	6,083.00	5,608.00	5,562.87	162.38	20.13	-37.60	-79.57	-571.55	9,223.64	9,176.60	47.04	196.084		
14,900.00	6,083.00	5,608.00	5,562.87	164.14	20.13	-37.60	-79.57	-571.55	9,323.39	9,276.28	47.11	197.891		
15,000.00	6,083.00	5,608.00	5,562.87	165.90	20.13	-37.60	-79.57	-571.55	9,423.16	9,375.97	47.19	199.690		
15,100.00	6,083.00	5,608.00	5,562.87	167.66	20.13	-37.60	-79.57	-571.55	9,522.93	9,475.66	47.26	201.481		
15,200.00	6,083.00	5,608.00	5,562.87	169.42	20.13	-37.60	-79.57	-571.55	9,622.70	9,575.36	47.34	203.265		
15,300.00	6,083.00	5,608.00	5,562.87	171.17	20.13	-37.60	-79.57	-571.55	9,722.48	9,675.06	47.42	205.040		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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: 500-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	6,083.00	5,608.00	5,562.87	172.93	20.13	-37.60	-79.57	-571.55	9,822.26	9,774.76	47.49	206.808	
15,500.00	6,083.00	5,608.00	5,562.87	174.69	20.13	-37.60	-79.57	-571.55	9,922.04	9,874.47	47.57	208.568	
15,600.00	6,083.00	5,608.00	5,562.87	176.45	20.13	-37.60	-79.57	-571.55	10,021.83	9,974.18	47.65	210.320	

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-05
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4684.00usft
Reference Site:	SEC 5-T5N-R61W	MD Reference:	KB 25' @ 4684.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PRONGHORN K-5 FED 32N-20-05	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 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		
0.00	0.00	16,045.00	6,103.52	0.00	176.36	-92.16	-172.47	-4,576.40	7,714.05					
100.00	100.00	16,045.00	6,103.52	0.27	176.36	-92.16	-172.47	-4,576.40	7,633.81	7,509.12	124.69	61.223		
200.00	200.00	16,045.00	6,103.52	0.63	176.36	-92.16	-172.47	-4,576.40	7,554.04	7,428.56	125.48	60.202		
300.00	300.00	16,045.00	6,103.52	0.99	176.36	-92.16	-172.47	-4,576.40	7,474.76	7,348.44	126.31	59.177		
400.00	400.00	16,045.00	6,103.52	1.34	176.36	-92.16	-172.47	-4,576.40	7,395.98	7,268.79	127.19	58.149		
500.00	499.98	16,045.00	6,103.52	1.70	176.36	-49.68	-172.47	-4,576.40	7,317.00	7,188.89	128.11	57.115		
600.00	599.88	16,045.00	6,103.52	2.06	176.36	-50.26	-172.47	-4,576.40	7,237.49	7,108.44	129.05	56.082		
700.00	699.78	16,045.00	6,103.52	2.42	176.36	-50.26	-172.47	-4,576.40	7,158.44	7,028.43	130.01	55.062		
800.00	799.68	16,045.00	6,103.52	2.78	176.36	-50.26	-172.47	-4,576.40	7,079.92	6,948.92	131.00	54.046		
900.00	899.58	16,045.00	6,103.52	3.14	176.36	-50.26	-172.47	-4,576.40	7,001.94	6,869.92	132.02	53.037		
1,000.00	999.48	16,045.00	6,103.52	3.50	176.36	-50.26	-172.47	-4,576.40	6,924.53	6,791.46	133.07	52.036		
1,100.00	1,099.38	16,045.00	6,103.52	3.87	176.36	-50.26	-172.47	-4,576.40	6,847.71	6,713.56	134.15	51.044		
1,200.00	1,199.28	16,045.00	6,103.52	4.23	176.36	-50.26	-172.47	-4,576.40	6,771.49	6,636.23	135.26	50.062		
1,300.00	1,299.18	16,045.00	6,103.52	4.59	176.36	-50.26	-172.47	-4,576.40	6,695.90	6,559.50	136.40	49.091		
1,400.00	1,399.08	16,045.00	6,103.52	4.96	176.36	-50.26	-172.47	-4,576.40	6,620.95	6,483.39	137.56	48.131		
1,500.00	1,498.97	16,045.00	6,103.52	5.32	176.36	-50.26	-172.47	-4,576.40	6,546.68	6,407.93	138.75	47.184		
1,600.00	1,598.87	16,045.00	6,103.52	5.69	176.36	-50.26	-172.47	-4,576.40	6,473.09	6,333.14	139.96	46.250		
1,700.00	1,698.77	16,045.00	6,103.52	6.05	176.36	-50.26	-172.47	-4,576.40	6,400.23	6,259.03	141.19	45.329		
1,800.00	1,798.67	16,045.00	6,103.52	6.42	176.36	-50.26	-172.47	-4,576.40	6,328.10	6,185.65	142.45	44.422		
1,900.00	1,898.57	16,045.00	6,103.52	6.78	176.36	-50.26	-172.47	-4,576.40	6,256.75	6,113.01	143.74	43.529		
2,000.00	1,998.47	16,045.00	6,103.52	7.15	176.36	-50.26	-172.47	-4,576.40	6,186.18	6,041.14	145.04	42.651		
2,100.00	2,098.37	16,045.00	6,103.52	7.51	176.36	-50.26	-172.47	-4,576.40	6,116.44	5,970.07	146.37	41.788		
2,200.00	2,198.27	16,045.00	6,103.52	7.87	176.36	-50.26	-172.47	-4,576.40	6,047.54	5,899.83	147.71	40.941		
2,300.00	2,298.17	16,045.00	6,103.52	8.24	176.36	-50.26	-172.47	-4,576.40	5,979.53	5,830.44	149.08	40.109		
2,400.00	2,398.06	16,045.00	6,103.52	8.60	176.36	-50.26	-172.47	-4,576.40	5,912.42	5,761.95	150.47	39.293		
2,500.00	2,497.96	16,045.00	6,103.52	8.97	176.36	-50.26	-172.47	-4,576.40	5,846.25	5,694.38	151.88	38.493		
2,600.00	2,597.86	16,045.00	6,103.52	9.33	176.36	-50.26	-172.47	-4,576.40	5,781.06	5,627.76	153.30	37.710		
2,700.00	2,697.76	16,045.00	6,103.52	9.70	176.36	-50.26	-172.47	-4,576.40	5,716.87	5,562.13	154.74	36.944		
2,800.00	2,797.66	16,045.00	6,103.52	10.06	176.36	-50.26	-172.47	-4,576.40	5,653.72	5,497.52	156.20	36.195		
2,900.00	2,897.56	16,045.00	6,103.52	10.43	176.36	-50.26	-172.47	-4,576.40	5,591.65	5,433.98	157.67	35.464		
3,000.00	2,997.46	16,045.00	6,103.52	10.79	176.36	-50.26	-172.47	-4,576.40	5,530.69	5,371.53	159.16	34.750		
3,100.00	3,097.36	16,045.00	6,103.52	11.16	176.36	-50.26	-172.47	-4,576.40	5,470.88	5,310.22	160.66	34.054		
3,200.00	3,197.25	16,045.00	6,103.52	11.52	176.36	-50.26	-172.47	-4,576.40	5,412.25	5,250.09	162.16	33.375		
3,300.00	3,297.15	16,045.00	6,103.52	11.89	176.36	-50.26	-172.47	-4,576.40	5,354.85	5,191.17	163.68	32.716		
3,400.00	3,397.05	16,045.00	6,103.52	12.25	176.36	-50.26	-172.47	-4,576.40	5,298.72	5,133.52	165.20	32.074		
3,500.00	3,496.95	16,045.00	6,103.52	12.62	176.36	-50.26	-172.47	-4,576.40	5,243.89	5,077.16	166.73	31.452		
3,600.00	3,596.85	16,045.00	6,103.52	12.98	176.36	-50.26	-172.47	-4,576.40	5,190.41	5,022.15	168.26	30.848		
3,700.00	3,696.75	16,045.00	6,103.52	13.35	176.36	-50.26	-172.47	-4,576.40	5,138.32	4,968.53	169.79	30.264		
3,800.00	3,796.65	16,045.00	6,103.52	13.72	176.36	-50.26	-172.47	-4,576.40	5,087.66	4,916.35	171.31	29.698		
3,900.00	3,896.55	16,045.00	6,103.52	14.08	176.36	-50.26	-172.47	-4,576.40	5,038.48	4,865.64	172.83	29.152		
4,000.00	3,996.45	16,045.00	6,103.52	14.45	176.36	-50.26	-172.47	-4,576.40	4,990.81	4,816.47	174.34	28.626		
4,100.00	4,096.34	16,045.00	6,103.52	14.81	176.36	-50.26	-172.47	-4,576.40	4,944.71	4,768.87	175.84	28.120		
4,200.00	4,196.24	16,045.00	6,103.52	15.18	176.36	-50.26	-172.47	-4,576.40	4,900.22	4,722.89	177.33	27.633		
4,300.00	4,296.14	16,045.00	6,103.52	15.54	176.36	-50.26	-172.47	-4,576.40	4,857.38	4,678.58	178.80	27.167		
4,400.00	4,396.04	16,045.00	6,103.52	15.91	176.36	-50.26	-172.47	-4,576.40	4,816.23	4,635.99	180.24	26.721		
4,500.00	4,495.94	16,045.00	6,103.52	16.27	176.36	-50.26	-172.47	-4,576.40	4,776.83	4,595.16	181.66	26.295		
4,600.00	4,595.84	16,045.00	6,103.52	16.64	176.36	-50.26	-172.47	-4,576.40	4,739.20	4,556.15	183.06	25.889		
4,700.00	4,695.74	16,045.00	6,103.52	17.00	176.36	-50.26	-172.47	-4,576.40	4,703.40	4,518.99	184.42	25.504		
4,800.00	4,795.64	16,045.00	6,103.52	17.37	176.36	-50.26	-172.47	-4,576.40	4,669.47	4,483.73	185.74	25.140		
4,900.00	4,895.54	16,045.00	6,103.52	17.73	176.36	-50.26	-172.47	-4,576.40	4,637.45	4,450.43	187.02	24.797		
5,000.00	4,995.43	16,045.00	6,103.52	18.10	176.36	-50.26	-172.47	-4,576.40	4,607.38	4,419.12	188.26	24.474		
5,100.00	5,095.33	16,045.00	6,103.52	18.46	176.36	-50.26	-172.47	-4,576.40	4,579.29	4,389.84	189.45	24.172		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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	5,195.23	16,045.00	6,103.52	18.83	176.36	-50.26	-172.47	-4,576.40	4,553.22	4,362.64	190.58	23.891		
5,300.00	5,295.13	16,045.00	6,103.52	19.19	176.36	-50.26	-172.47	-4,576.40	4,529.22	4,337.55	191.67	23.631		
5,400.00	5,395.03	16,045.00	6,103.52	19.56	176.36	-50.26	-172.47	-4,576.40	4,507.30	4,314.62	192.69	23.392		
5,500.00	5,494.93	16,045.00	6,103.52	19.92	176.36	-50.26	-172.47	-4,576.40	4,487.51	4,293.86	193.65	23.174		
5,600.00	5,594.56	16,045.00	6,103.52	20.29	176.36	-83.89	-172.47	-4,576.40	4,470.22	4,275.68	194.54	22.979		
5,700.00	5,691.64	16,045.00	6,103.52	20.69	176.36	-91.66	-172.47	-4,576.40	4,456.82	4,261.48	195.34	22.816		
5,800.00	5,783.21	16,045.00	6,103.52	21.10	176.36	-94.46	-172.47	-4,576.40	4,447.85	4,251.82	196.04	22.689		
5,900.00	5,866.49	16,045.00	6,103.52	21.55	176.36	-95.76	-172.47	-4,576.40	4,443.61	4,246.97	196.64	22.598		
5,937.24	5,894.87	16,045.00	6,103.52	21.74	176.36	-96.01	-172.47	-4,576.40	4,443.27	4,246.43	196.84	22.573 CC, ES		
6,000.00	5,938.95	16,045.00	6,103.52	22.06	176.36	-96.19	-172.47	-4,576.40	4,444.23	4,247.10	197.14	22.544		
6,100.00	5,998.39	16,045.00	6,103.52	22.64	176.36	-95.95	-172.47	-4,576.40	4,449.70	4,252.15	197.56	22.523 SF		
6,200.00	6,043.00	16,045.00	6,103.52	23.31	176.36	-95.11	-172.47	-4,576.40	4,459.84	4,261.93	197.91	22.535		
6,300.00	6,071.42	16,045.00	6,103.52	24.06	176.36	-93.76	-172.47	-4,576.40	4,474.29	4,276.10	198.19	22.575		
6,400.00	6,082.79	16,045.00	6,103.52	24.89	176.36	-91.94	-172.47	-4,576.40	4,492.60	4,294.18	198.42	22.642		
6,500.00	6,083.00	16,045.00	6,103.52	25.78	176.36	-91.62	-172.47	-4,576.40	4,513.85	4,315.25	198.60	22.728		
6,600.00	6,083.00	16,045.00	6,103.52	26.77	176.36	-91.62	-172.47	-4,576.40	4,537.22	4,338.43	198.79	22.825		
6,700.00	6,083.00	16,045.00	6,103.52	27.83	176.36	-91.62	-172.47	-4,576.40	4,562.66	4,363.70	198.96	22.933		
6,800.00	6,083.00	16,045.00	6,103.52	28.96	176.36	-91.62	-172.47	-4,576.40	4,590.14	4,391.03	199.11	23.053		
6,900.00	6,083.00	16,045.00	6,103.52	30.15	176.36	-91.62	-172.47	-4,576.40	4,619.62	4,420.38	199.24	23.187		
7,000.00	6,083.00	16,045.00	6,103.52	31.40	176.36	-91.62	-172.47	-4,576.40	4,651.06	4,451.73	199.33	23.334		
7,100.00	6,083.00	16,045.00	6,103.52	32.70	176.36	-91.62	-172.47	-4,576.40	4,684.43	4,485.05	199.39	23.494		
7,200.00	6,083.00	16,045.00	6,103.52	34.04	176.36	-91.62	-172.47	-4,576.40	4,719.68	4,520.28	199.41	23.669		
7,300.00	6,083.00	16,045.00	6,103.52	35.42	176.36	-91.62	-172.47	-4,576.40	4,756.78	4,557.39	199.39	23.857		
7,400.00	6,083.00	16,045.00	6,103.52	36.83	176.36	-91.62	-172.47	-4,576.40	4,795.67	4,596.35	199.32	24.060		
7,500.00	6,083.00	16,045.00	6,103.52	38.27	176.36	-91.62	-172.47	-4,576.40	4,836.32	4,637.10	199.22	24.277		
7,600.00	6,083.00	16,045.00	6,103.52	39.74	176.36	-91.62	-172.47	-4,576.40	4,878.68	4,679.61	199.07	24.508		
7,700.00	6,083.00	16,045.00	6,103.52	41.23	176.36	-91.62	-172.47	-4,576.40	4,922.70	4,723.83	198.87	24.753		
7,800.00	6,083.00	16,045.00	6,103.52	42.75	176.36	-91.62	-172.47	-4,576.40	4,968.35	4,769.71	198.64	25.012		
7,900.00	6,083.00	16,045.00	6,103.52	44.28	176.36	-91.62	-172.47	-4,576.40	5,015.58	4,817.21	198.37	25.284		
8,000.00	6,083.00	16,045.00	6,103.52	45.83	176.36	-91.62	-172.47	-4,576.40	5,064.34	4,866.28	198.06	25.570		
8,100.00	6,083.00	16,045.00	6,103.52	47.40	176.36	-91.62	-172.47	-4,576.40	5,114.59	4,916.88	197.71	25.869		
8,200.00	6,083.00	16,045.00	6,103.52	48.98	176.36	-91.62	-172.47	-4,576.40	5,166.29	4,968.96	197.33	26.182		
8,300.00	6,083.00	16,045.00	6,103.52	50.57	176.36	-91.62	-172.47	-4,576.40	5,219.39	5,022.48	196.91	26.507		
8,400.00	6,083.00	16,045.00	6,103.52	52.18	176.36	-91.62	-172.47	-4,576.40	5,273.86	5,077.40	196.46	26.844		
8,500.00	6,083.00	16,045.00	6,103.52	53.79	176.36	-91.62	-172.47	-4,576.40	5,329.64	5,133.66	195.98	27.194		
8,600.00	6,083.00	16,045.00	6,103.52	55.42	176.36	-91.62	-172.47	-4,576.40	5,386.70	5,191.23	195.48	27.557		
8,700.00	6,083.00	16,045.00	6,103.52	57.05	176.36	-91.62	-172.47	-4,576.40	5,445.01	5,250.06	194.95	27.931		
8,800.00	6,083.00	16,045.00	6,103.52	58.70	176.36	-91.62	-172.47	-4,576.40	5,504.51	5,310.11	194.39	28.316		
8,900.00	6,083.00	16,045.00	6,103.52	60.35	176.36	-91.62	-172.47	-4,576.40	5,565.17	5,371.35	193.82	28.713		
9,000.00	6,083.00	16,045.00	6,103.52	62.00	176.36	-91.62	-172.47	-4,576.40	5,626.96	5,433.73	193.23	29.121		
9,100.00	6,083.00	16,045.00	6,103.52	63.66	176.36	-91.62	-172.47	-4,576.40	5,689.83	5,497.21	192.62	29.540		
9,200.00	6,083.00	16,045.00	6,103.52	65.33	176.36	-91.62	-172.47	-4,576.40	5,753.75	5,561.76	191.99	29.969		
9,300.00	6,083.00	16,045.00	6,103.52	67.01	176.36	-91.62	-172.47	-4,576.40	5,818.69	5,627.34	191.35	30.409		
9,400.00	6,083.00	16,045.00	6,103.52	68.69	176.36	-91.62	-172.47	-4,576.40	5,884.61	5,693.92	190.69	30.859		
9,500.00	6,083.00	16,045.00	6,103.52	70.37	176.36	-91.62	-172.47	-4,576.40	5,951.49	5,761.46	190.03	31.319		
9,600.00	6,083.00	16,045.00	6,103.52	72.06	176.36	-91.62	-172.47	-4,576.40	6,019.28	5,829.92	189.36	31.788		
9,700.00	6,083.00	16,045.00	6,103.52	73.75	176.36	-91.62	-172.47	-4,576.40	6,087.96	5,899.28	188.67	32.267		
9,800.00	6,083.00	16,045.00	6,103.52	75.45	176.36	-91.62	-172.47	-4,576.40	6,157.49	5,969.51	187.99	32.755		
9,900.00	6,083.00	16,045.00	6,103.52	77.15	176.36	-91.62	-172.47	-4,576.40	6,227.86	6,040.57	187.29	33.252		
10,000.00	6,083.00	16,045.00	6,103.52	78.85	176.36	-91.62	-172.47	-4,576.40	6,299.03	6,112.43	186.59	33.758		
10,100.00	6,083.00	16,045.00	6,103.52	80.56	176.36	-91.62	-172.47	-4,576.40	6,370.97	6,185.08	185.89	34.272		
10,200.00	6,083.00	16,045.00	6,103.52	82.26	176.36	-91.62	-172.47	-4,576.40	6,443.66	6,258.47	185.19	34.795		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,300.00	6,083.00	16,045.00	6,103.52	83.98	176.36	-91.62	-172.47	-4,576.40	6,517.08	6,332.59	184.48	35.326		
10,400.00	6,083.00	16,045.00	6,103.52	85.69	176.36	-91.62	-172.47	-4,576.40	6,591.19	6,407.41	183.78	35.865		
10,500.00	6,083.00	16,045.00	6,103.52	87.41	176.36	-91.62	-172.47	-4,576.40	6,665.98	6,482.91	183.07	36.412		
10,600.00	6,083.00	16,045.00	6,103.52	89.12	176.36	-91.62	-172.47	-4,576.40	6,741.43	6,559.06	182.37	36.966		
10,700.00	6,083.00	16,045.00	6,103.52	90.85	176.36	-91.62	-172.47	-4,576.40	6,817.50	6,635.84	181.67	37.528		
10,800.00	6,083.00	16,045.00	6,103.52	92.57	176.36	-91.62	-172.47	-4,576.40	6,894.19	6,713.22	180.96	38.097		
10,900.00	6,083.00	16,045.00	6,103.52	94.29	176.36	-91.62	-172.47	-4,576.40	6,971.47	6,791.20	180.27	38.673		
11,000.00	6,083.00	16,045.00	6,103.52	96.02	176.36	-91.62	-172.47	-4,576.40	7,049.32	6,869.74	179.57	39.256		
11,100.00	6,083.00	16,045.00	6,103.52	97.75	176.36	-91.62	-172.47	-4,576.40	7,127.72	6,948.84	178.88	39.846		
11,200.00	6,083.00	16,045.00	6,103.52	99.48	176.36	-91.62	-172.47	-4,576.40	7,206.66	7,028.46	178.20	40.442		
11,300.00	6,083.00	16,045.00	6,103.52	101.21	176.36	-91.62	-172.47	-4,576.40	7,286.11	7,108.60	177.52	41.045		
11,400.00	6,083.00	16,045.00	6,103.52	102.94	176.36	-91.62	-172.47	-4,576.40	7,366.07	7,189.23	176.84	41.654		
11,500.00	6,083.00	16,045.00	6,103.52	104.67	176.36	-91.62	-172.47	-4,576.40	7,446.50	7,270.34	176.17	42.269		
11,600.00	6,083.00	16,045.00	6,103.52	106.41	176.36	-91.62	-172.47	-4,576.40	7,527.41	7,351.91	175.50	42.890		
11,700.00	6,083.00	16,045.00	6,103.52	108.15	176.36	-91.62	-172.47	-4,576.40	7,608.77	7,433.93	174.84	43.517		
11,800.00	6,083.00	16,045.00	6,103.52	109.88	176.36	-91.62	-172.47	-4,576.40	7,690.58	7,516.39	174.19	44.150		
11,900.00	6,083.00	16,045.00	6,103.52	111.62	176.36	-91.62	-172.47	-4,576.40	7,772.80	7,599.26	173.54	44.789		
12,000.00	6,083.00	16,045.00	6,103.52	113.36	176.36	-91.62	-172.47	-4,576.40	7,855.44	7,682.54	172.90	45.432		
12,100.00	6,083.00	16,045.00	6,103.52	115.10	176.36	-91.62	-172.47	-4,576.40	7,938.48	7,766.21	172.27	46.081		
12,200.00	6,083.00	16,045.00	6,103.52	116.85	176.36	-91.62	-172.47	-4,576.40	8,021.91	7,850.26	171.64	46.736		
12,300.00	6,083.00	16,045.00	6,103.52	118.59	176.36	-91.62	-172.47	-4,576.40	8,105.71	7,934.68	171.02	47.395		
12,400.00	6,083.00	16,045.00	6,103.52	120.33	176.36	-91.62	-172.47	-4,576.40	8,189.87	8,019.46	170.41	48.059		
12,500.00	6,083.00	16,045.00	6,103.52	122.08	176.36	-91.62	-172.47	-4,576.40	8,274.39	8,104.58	169.81	48.728		
12,600.00	6,083.00	16,045.00	6,103.52	123.82	176.36	-91.62	-172.47	-4,576.40	8,359.25	8,190.04	169.21	49.402		
12,700.00	6,083.00	16,045.00	6,103.52	125.57	176.36	-91.62	-172.47	-4,576.40	8,444.44	8,275.82	168.62	50.080		
12,800.00	6,083.00	16,045.00	6,103.52	127.32	176.36	-91.62	-172.47	-4,576.40	8,529.95	8,361.92	168.03	50.763		
12,900.00	6,083.00	16,045.00	6,103.52	129.07	176.36	-91.62	-172.47	-4,576.40	8,615.78	8,448.32	167.46	51.450		
13,000.00	6,083.00	16,045.00	6,103.52	130.81	176.36	-91.62	-172.47	-4,576.40	8,701.90	8,535.01	166.89	52.142		
13,100.00	6,083.00	16,045.00	6,103.52	132.56	176.36	-91.62	-172.47	-4,576.40	8,788.32	8,622.00	166.33	52.838		
13,200.00	6,083.00	16,045.00	6,103.52	134.31	176.36	-91.62	-172.47	-4,576.40	8,875.03	8,709.26	165.77	53.537		
13,300.00	6,083.00	16,045.00	6,103.52	136.06	176.36	-91.62	-172.47	-4,576.40	8,962.01	8,796.79	165.23	54.241		
13,400.00	6,083.00	16,045.00	6,103.52	137.81	176.36	-91.62	-172.47	-4,576.40	9,049.26	8,884.58	164.69	54.949		
13,500.00	6,083.00	16,045.00	6,103.52	139.57	176.36	-91.62	-172.47	-4,576.40	9,136.78	8,972.62	164.15	55.660		
13,600.00	6,083.00	16,045.00	6,103.52	141.32	176.36	-91.62	-172.47	-4,576.40	9,224.54	9,060.91	163.63	56.375		
13,700.00	6,083.00	16,045.00	6,103.52	143.07	176.36	-91.62	-172.47	-4,576.40	9,312.56	9,149.45	163.11	57.094		
13,800.00	6,083.00	16,045.00	6,103.52	144.82	176.36	-91.62	-172.47	-4,576.40	9,400.81	9,238.21	162.60	57.816		
13,900.00	6,083.00	16,045.00	6,103.52	146.58	176.36	-91.62	-172.47	-4,576.40	9,489.29	9,327.20	162.10	58.541		
14,000.00	6,083.00	16,045.00	6,103.52	148.33	176.36	-91.62	-172.47	-4,576.40	9,578.01	9,416.41	161.60	59.270		
14,100.00	6,083.00	16,045.00	6,103.52	150.09	176.36	-91.62	-172.47	-4,576.40	9,666.94	9,505.83	161.11	60.003		
14,200.00	6,083.00	16,045.00	6,103.52	151.84	176.36	-91.62	-172.47	-4,576.40	9,756.09	9,595.46	160.63	60.738		
14,300.00	6,083.00	16,045.00	6,103.52	153.60	176.36	-91.62	-172.47	-4,576.40	9,845.44	9,685.29	160.15	61.476		
14,400.00	6,083.00	16,045.00	6,103.52	155.35	176.36	-91.62	-172.47	-4,576.40	9,935.00	9,775.32	159.68	62.218		
14,500.00	6,083.00	16,045.00	6,103.52	157.11	176.36	-91.62	-172.47	-4,576.40	10,024.76	9,865.54	159.22	62.962		
14,600.00	6,083.00	16,045.00	6,103.52	158.87	176.36	-91.62	-172.47	-4,576.40	10,114.71	9,955.94	158.76	63.710		



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 6-61-30-0758BH - OWB - FINAL SURVEY													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		
0.00	0.00	10,650.00	6,204.92	0.00	83.48	-35.08	6,034.26	-4,238.38	9,640.50					
100.00	100.00	10,650.00	6,204.92	0.27	83.48	-35.08	6,034.26	-4,238.38	9,576.39	9,530.55	45.84	208.910		
200.00	200.00	10,650.00	6,204.92	0.63	83.48	-35.08	6,034.26	-4,238.38	9,512.90	9,466.92	45.98	206.879		
300.00	300.00	10,650.00	6,204.92	0.99	83.48	-35.08	6,034.26	-4,238.38	9,450.04	9,403.87	46.18	204.647		
400.00	400.00	10,650.00	6,204.92	1.34	83.48	-35.08	6,034.26	-4,238.38	9,387.83	9,341.41	46.42	202.255		
500.00	499.98	10,650.00	6,204.92	1.70	83.48	9.59	6,034.26	-4,238.38	9,324.92	9,278.22	46.71	199.652		
600.00	599.88	10,650.00	6,204.92	2.06	83.48	9.67	6,034.26	-4,238.38	9,260.67	9,213.65	47.02	196.940		
700.00	699.78	10,650.00	6,204.92	2.42	83.48	9.67	6,034.26	-4,238.38	9,196.94	9,149.62	47.33	194.332		
800.00	799.68	10,650.00	6,204.92	2.78	83.48	9.67	6,034.26	-4,238.38	9,133.86	9,086.22	47.65	191.698		
900.00	899.58	10,650.00	6,204.92	3.14	83.48	9.67	6,034.26	-4,238.38	9,071.45	9,023.47	47.98	189.054		
1,000.00	999.48	10,650.00	6,204.92	3.50	83.48	9.67	6,034.26	-4,238.38	9,009.71	8,961.38	48.33	186.412		
1,100.00	1,099.38	10,650.00	6,204.92	3.87	83.48	9.67	6,034.26	-4,238.38	8,948.67	8,899.98	48.69	183.783		
1,200.00	1,199.28	10,650.00	6,204.92	4.23	83.48	9.67	6,034.26	-4,238.38	8,888.33	8,839.27	49.06	181.172		
1,300.00	1,299.18	10,650.00	6,204.92	4.59	83.48	9.67	6,034.26	-4,238.38	8,828.71	8,779.28	49.44	178.586		
1,400.00	1,399.08	10,650.00	6,204.92	4.96	83.48	9.67	6,034.26	-4,238.38	8,769.83	8,720.01	49.82	176.028		
1,500.00	1,498.97	10,650.00	6,204.92	5.32	83.48	9.67	6,034.26	-4,238.38	8,711.70	8,661.49	50.21	173.501		
1,600.00	1,598.87	10,650.00	6,204.92	5.69	83.48	9.67	6,034.26	-4,238.38	8,654.33	8,603.72	50.61	171.007		
1,700.00	1,698.77	10,650.00	6,204.92	6.05	83.48	9.67	6,034.26	-4,238.38	8,597.74	8,546.73	51.01	168.550		
1,800.00	1,798.67	10,650.00	6,204.92	6.42	83.48	9.67	6,034.26	-4,238.38	8,541.95	8,490.53	51.42	166.129		
1,900.00	1,898.57	10,650.00	6,204.92	6.78	83.48	9.67	6,034.26	-4,238.38	8,486.97	8,435.14	51.83	163.747		
2,000.00	1,998.47	10,650.00	6,204.92	7.15	83.48	9.67	6,034.26	-4,238.38	8,432.82	8,380.57	52.25	161.405		
2,100.00	2,098.37	10,650.00	6,204.92	7.51	83.48	9.67	6,034.26	-4,238.38	8,379.51	8,326.84	52.67	159.102		
2,200.00	2,198.27	10,650.00	6,204.92	7.87	83.48	9.67	6,034.26	-4,238.38	8,327.06	8,273.96	53.09	156.841		
2,300.00	2,298.17	10,650.00	6,204.92	8.24	83.48	9.67	6,034.26	-4,238.38	8,275.48	8,221.96	53.52	154.620		
2,400.00	2,398.06	10,650.00	6,204.92	8.60	83.48	9.67	6,034.26	-4,238.38	8,224.80	8,170.85	53.95	152.442		
2,500.00	2,497.96	10,650.00	6,204.92	8.97	83.48	9.67	6,034.26	-4,238.38	8,175.03	8,120.64	54.39	150.306		
2,600.00	2,597.86	10,650.00	6,204.92	9.33	83.48	9.67	6,034.26	-4,238.38	8,126.18	8,071.35	54.83	148.212		
2,700.00	2,697.76	10,650.00	6,204.92	9.70	83.48	9.67	6,034.26	-4,238.38	8,078.28	8,023.01	55.27	146.162		
2,800.00	2,797.66	10,650.00	6,204.92	10.06	83.48	9.67	6,034.26	-4,238.38	8,031.33	7,975.62	55.71	144.154		
2,900.00	2,897.56	10,650.00	6,204.92	10.43	83.48	9.67	6,034.26	-4,238.38	7,985.37	7,929.20	56.16	142.189		
3,000.00	2,997.46	10,650.00	6,204.92	10.79	83.48	9.67	6,034.26	-4,238.38	7,940.39	7,883.78	56.61	140.268		
3,100.00	3,097.36	10,650.00	6,204.92	11.16	83.48	9.67	6,034.26	-4,238.38	7,896.43	7,839.37	57.06	138.390		
3,200.00	3,197.25	10,650.00	6,204.92	11.52	83.48	9.67	6,034.26	-4,238.38	7,853.49	7,795.98	57.51	136.555		
3,300.00	3,297.15	10,650.00	6,204.92	11.89	83.48	9.67	6,034.26	-4,238.38	7,811.60	7,753.63	57.97	134.763		
3,400.00	3,397.05	10,650.00	6,204.92	12.25	83.48	9.67	6,034.26	-4,238.38	7,770.76	7,712.34	58.42	133.015		
3,500.00	3,496.95	10,650.00	6,204.92	12.62	83.48	9.67	6,034.26	-4,238.38	7,731.01	7,672.13	58.88	131.311		
3,600.00	3,596.85	10,650.00	6,204.92	12.98	83.48	9.67	6,034.26	-4,238.38	7,692.35	7,633.02	59.33	129.649		
3,700.00	3,696.75	10,650.00	6,204.92	13.35	83.48	9.67	6,034.26	-4,238.38	7,654.80	7,595.01	59.79	128.031		
3,800.00	3,796.65	10,650.00	6,204.92	13.72	83.48	9.67	6,034.26	-4,238.38	7,618.38	7,558.14	60.25	126.456		
3,900.00	3,896.55	10,650.00	6,204.92	14.08	83.48	9.67	6,034.26	-4,238.38	7,583.10	7,522.40	60.70	124.925		
4,000.00	3,996.45	10,650.00	6,204.92	14.45	83.48	9.67	6,034.26	-4,238.38	7,548.99	7,487.83	61.16	123.436		
4,100.00	4,096.34	10,650.00	6,204.92	14.81	83.48	9.67	6,034.26	-4,238.38	7,516.05	7,454.43	61.61	121.990		
4,200.00	4,196.24	10,650.00	6,204.92	15.18	83.48	9.67	6,034.26	-4,238.38	7,484.30	7,422.23	62.07	120.586		
4,300.00	4,296.14	10,650.00	6,204.92	15.54	83.48	9.67	6,034.26	-4,238.38	7,453.75	7,391.24	62.52	119.225		
4,400.00	4,396.04	10,650.00	6,204.92	15.91	83.48	9.67	6,034.26	-4,238.38	7,424.43	7,361.46	62.97	117.906		
4,500.00	4,495.94	10,650.00	6,204.92	16.27	83.48	9.67	6,034.26	-4,238.38	7,396.35	7,332.93	63.42	116.630		
4,600.00	4,595.84	10,650.00	6,204.92	16.64	83.48	9.67	6,034.26	-4,238.38	7,369.51	7,305.65	63.86	115.395		
4,700.00	4,695.74	10,650.00	6,204.92	17.00	83.48	9.67	6,034.26	-4,238.38	7,343.94	7,279.63	64.31	114.202		
4,800.00	4,795.64	10,650.00	6,204.92	17.37	83.48	9.67	6,034.26	-4,238.38	7,319.64	7,254.89	64.75	113.050		
4,900.00	4,895.54	10,650.00	6,204.92	17.73	83.48	9.67	6,034.26	-4,238.38	7,296.64	7,231.45	65.18	111.939		
5,000.00	4,995.43	10,650.00	6,204.92	18.10	83.48	9.67	6,034.26	-4,238.38	7,274.93	7,209.32	65.62	110.870		
5,100.00	5,095.33	10,650.00	6,204.92	18.46	83.48	9.67	6,034.26	-4,238.38	7,254.54	7,188.50	66.05	109.840		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 6-61-30-0758BH - OWB - FINAL SURVEY													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		
5,200.00	5,195.23	10,650.00	6,204.92	18.83	83.48	9.67	6,034.26	-4,238.38	7,235.48	7,169.01	66.47	108.851		
5,300.00	5,295.13	10,650.00	6,204.92	19.19	83.48	9.67	6,034.26	-4,238.38	7,217.75	7,150.86	66.89	107.902		
5,400.00	5,395.03	10,650.00	6,204.92	19.56	83.48	9.67	6,034.26	-4,238.38	7,201.36	7,134.05	67.31	106.993		
5,500.00	5,494.93	10,650.00	6,204.92	19.92	83.48	9.67	6,034.26	-4,238.38	7,186.33	7,118.61	67.72	106.123		
5,600.00	5,594.56	10,650.00	6,204.92	20.29	83.48	-23.54	6,034.26	-4,238.38	7,169.58	7,101.44	68.14	105.218		
5,700.00	5,691.64	10,650.00	6,204.92	20.69	83.48	-31.73	6,034.26	-4,238.38	7,141.16	7,072.53	68.63	104.056		
5,800.00	5,783.21	10,650.00	6,204.92	21.10	83.48	-36.39	6,034.26	-4,238.38	7,100.99	7,031.82	69.17	102.656		
5,900.00	5,866.49	10,650.00	6,204.92	21.55	83.48	-41.25	6,034.26	-4,238.38	7,050.10	6,980.34	69.77	101.053		
6,000.00	5,938.95	10,650.00	6,204.92	22.06	83.48	-47.27	6,034.26	-4,238.38	6,989.83	6,919.42	70.41	99.278		
6,100.00	5,998.39	10,650.00	6,204.92	22.64	83.48	-55.03	6,034.26	-4,238.38	6,921.78	6,850.69	71.09	97.365		
6,200.00	6,043.00	10,650.00	6,204.92	23.31	83.48	-64.90	6,034.26	-4,238.38	6,847.82	6,776.00	71.82	95.346		
6,300.00	6,071.42	10,650.00	6,204.92	24.06	83.48	-76.80	6,034.26	-4,238.38	6,770.05	6,697.46	72.59	93.259		
6,400.00	6,082.79	10,650.00	6,204.92	24.89	83.48	-89.78	6,034.26	-4,238.38	6,690.74	6,617.33	73.41	91.142		
6,500.00	6,083.00	10,650.00	6,204.92	25.78	83.48	-91.78	6,034.26	-4,238.38	6,611.80	6,537.52	74.28	89.014		
6,600.00	6,083.00	10,650.00	6,204.92	26.77	83.48	-91.78	6,034.26	-4,238.38	6,533.44	6,458.21	75.23	86.851		
6,700.00	6,083.00	10,650.00	6,204.92	27.83	83.48	-91.78	6,034.26	-4,238.38	6,455.68	6,379.42	76.25	84.662		
6,800.00	6,083.00	10,650.00	6,204.92	28.96	83.48	-91.78	6,034.26	-4,238.38	6,378.53	6,301.17	77.36	82.453		
6,900.00	6,083.00	10,650.00	6,204.92	30.15	83.48	-91.78	6,034.26	-4,238.38	6,302.03	6,223.49	78.55	80.231		
7,000.00	6,083.00	10,650.00	6,204.92	31.40	83.48	-91.78	6,034.26	-4,238.38	6,226.20	6,146.38	79.82	78.004		
7,100.00	6,083.00	10,650.00	6,204.92	32.70	83.48	-91.78	6,034.26	-4,238.38	6,151.06	6,069.89	81.17	75.780		
7,200.00	6,083.00	10,650.00	6,204.92	34.04	83.48	-91.78	6,034.26	-4,238.38	6,076.63	5,994.03	82.60	73.566		
7,300.00	6,083.00	10,650.00	6,204.92	35.42	83.48	-91.78	6,034.26	-4,238.38	6,002.95	5,918.84	84.11	71.369		
7,400.00	6,083.00	10,650.00	6,204.92	36.83	83.48	-91.78	6,034.26	-4,238.38	5,930.04	5,844.34	85.70	69.195		
7,500.00	6,083.00	10,650.00	6,204.92	38.27	83.48	-91.78	6,034.26	-4,238.38	5,857.93	5,770.56	87.37	67.049		
7,600.00	6,083.00	10,650.00	6,204.92	39.74	83.48	-91.78	6,034.26	-4,238.38	5,786.64	5,697.53	89.11	64.938		
7,700.00	6,083.00	10,650.00	6,204.92	41.23	83.48	-91.78	6,034.26	-4,238.38	5,716.22	5,625.30	90.93	62.866		
7,800.00	6,083.00	10,650.00	6,204.92	42.75	83.48	-91.78	6,034.26	-4,238.38	5,646.69	5,553.88	92.82	60.837		
7,900.00	6,083.00	10,650.00	6,204.92	44.28	83.48	-91.78	6,034.26	-4,238.38	5,578.09	5,483.31	94.78	58.855		
8,000.00	6,083.00	10,650.00	6,204.92	45.83	83.48	-91.78	6,034.26	-4,238.38	5,510.45	5,413.64	96.81	56.922		
8,100.00	6,083.00	10,650.00	6,204.92	47.40	83.48	-91.78	6,034.26	-4,238.38	5,443.80	5,344.90	98.91	55.041		
8,200.00	6,083.00	10,650.00	6,204.92	48.98	83.48	-91.78	6,034.26	-4,238.38	5,378.19	5,277.12	101.07	53.213		
8,300.00	6,083.00	10,650.00	6,204.92	50.57	83.48	-91.78	6,034.26	-4,238.38	5,313.65	5,210.35	103.30	51.440		
8,400.00	6,083.00	10,650.00	6,204.92	52.18	83.48	-91.78	6,034.26	-4,238.38	5,250.22	5,144.63	105.59	49.724		
8,500.00	6,083.00	10,650.00	6,204.92	53.79	83.48	-91.78	6,034.26	-4,238.38	5,187.94	5,080.01	107.94	48.065		
8,600.00	6,083.00	10,650.00	6,204.92	55.42	83.48	-91.78	6,034.26	-4,238.38	5,126.86	5,016.52	110.34	46.462		
8,700.00	6,083.00	10,650.00	6,204.92	57.05	83.48	-91.78	6,034.26	-4,238.38	5,067.02	4,954.21	112.81	44.917		
8,800.00	6,083.00	10,650.00	6,204.92	58.70	83.48	-91.78	6,034.26	-4,238.38	5,008.45	4,893.13	115.32	43.430		
8,900.00	6,083.00	10,650.00	6,204.92	60.35	83.48	-91.78	6,034.26	-4,238.38	4,951.22	4,833.33	117.89	41.999		
9,000.00	6,083.00	10,650.00	6,204.92	62.00	83.48	-91.78	6,034.26	-4,238.38	4,895.35	4,774.85	120.50	40.625		
9,100.00	6,083.00	10,650.00	6,204.92	63.66	83.48	-91.78	6,034.26	-4,238.38	4,840.91	4,717.75	123.16	39.306		
9,200.00	6,083.00	10,650.00	6,204.92	65.33	83.48	-91.78	6,034.26	-4,238.38	4,787.94	4,662.08	125.86	38.042		
9,300.00	6,083.00	10,650.00	6,204.92	67.01	83.48	-91.78	6,034.26	-4,238.38	4,736.49	4,607.89	128.59	36.833		
9,400.00	6,083.00	10,650.00	6,204.92	68.69	83.48	-91.78	6,034.26	-4,238.38	4,686.60	4,555.24	131.36	35.677		
9,500.00	6,083.00	10,650.00	6,204.92	70.37	83.48	-91.78	6,034.26	-4,238.38	4,638.34	4,504.18	134.16	34.573		
9,600.00	6,083.00	10,650.00	6,204.92	72.06	83.48	-91.78	6,034.26	-4,238.38	4,591.75	4,454.77	136.98	33.521		
9,700.00	6,083.00	10,650.00	6,204.92	73.75	83.48	-91.78	6,034.26	-4,238.38	4,546.88	4,407.05	139.82	32.519		
9,800.00	6,083.00	10,650.00	6,204.92	75.45	83.48	-91.78	6,034.26	-4,238.38	4,503.78	4,361.10	142.68	31.566		
9,900.00	6,083.00	10,650.00	6,204.92	77.15	83.48	-91.78	6,034.26	-4,238.38	4,462.51	4,316.96	145.55	30.660		
10,000.00	6,083.00	10,650.00	6,204.92	78.85	83.48	-91.78	6,034.26	-4,238.38	4,423.11	4,274.70	148.42	29.802		
10,100.00	6,083.00	10,650.00	6,204.92	80.56	83.48	-91.78	6,034.26	-4,238.38	4,385.64	4,234.36	151.28	28.989		
10,200.00	6,083.00	10,650.00	6,204.92	82.26	83.48	-91.78	6,034.26	-4,238.38	4,350.15	4,196.01	154.14	28.221		
10,300.00	6,083.00	10,650.00	6,204.92	83.98	83.48	-91.78	6,034.26	-4,238.38	4,316.68	4,159.70	156.99	27.497		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 6-61-30-0758BH - OWB - FINAL SURVEY													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		
10,400.00	6,083.00	10,650.00	6,204.92	85.69	83.48	-91.78	6,034.26	-4,238.38	4,285.29	4,125.48	159.81	26.815		
10,500.00	6,083.00	10,650.00	6,204.92	87.41	83.48	-91.78	6,034.26	-4,238.38	4,256.01	4,093.41	162.61	26.174		
10,600.00	6,083.00	10,650.00	6,204.92	89.12	83.48	-91.78	6,034.26	-4,238.38	4,228.90	4,063.53	165.37	25.573		
10,700.00	6,083.00	10,650.00	6,204.92	90.85	83.48	-91.78	6,034.26	-4,238.38	4,203.99	4,035.91	168.08	25.011		
10,800.00	6,083.00	10,650.00	6,204.92	92.57	83.48	-91.78	6,034.26	-4,238.38	4,181.32	4,010.57	170.75	24.488		
10,900.00	6,083.00	10,650.00	6,204.92	94.29	83.48	-91.78	6,034.26	-4,238.38	4,160.94	3,987.58	173.36	24.001		
11,000.00	6,083.00	10,650.00	6,204.92	96.02	83.48	-91.78	6,034.26	-4,238.38	4,142.87	3,966.96	175.91	23.551		
11,100.00	6,083.00	10,650.00	6,204.92	97.75	83.48	-91.78	6,034.26	-4,238.38	4,127.14	3,948.75	178.39	23.136		
11,200.00	6,083.00	10,650.00	6,204.92	99.48	83.48	-91.78	6,034.26	-4,238.38	4,113.79	3,933.00	180.79	22.754		
11,300.00	6,083.00	10,650.00	6,204.92	101.21	83.48	-91.78	6,034.26	-4,238.38	4,102.83	3,919.72	183.11	22.406		
11,400.00	6,083.00	10,650.00	6,204.92	102.94	83.48	-91.78	6,034.26	-4,238.38	4,094.28	3,908.94	185.34	22.090		
11,500.00	6,083.00	10,650.00	6,204.92	104.67	83.48	-91.78	6,034.26	-4,238.38	4,088.16	3,900.69	187.48	21.806		
11,600.00	6,083.00	10,650.00	6,204.92	106.41	83.48	-91.78	6,034.26	-4,238.38	4,084.49	3,894.97	189.52	21.552		
11,700.00	6,083.00	10,650.00	6,204.92	108.15	83.48	-91.78	6,034.26	-4,238.38	4,083.26	3,891.80	191.45	21.328 CC		
11,704.45	6,083.00	10,650.00	6,204.92	108.22	83.48	-91.78	6,034.26	-4,238.38	4,083.26	3,891.72	191.54	21.319		
11,800.00	6,083.00	10,650.00	6,204.92	109.88	83.48	-91.78	6,034.26	-4,238.38	4,084.47	3,891.19	193.28	21.133 ES		
11,900.00	6,083.00	10,650.00	6,204.92	111.62	83.48	-91.78	6,034.26	-4,238.38	4,088.14	3,893.14	195.00	20.965		
12,000.00	6,083.00	10,528.19	6,205.95	113.36	81.37	-91.79	6,155.92	-4,244.37	4,093.56	3,898.92	194.63	21.032		
12,100.00	6,083.00	10,337.01	6,206.23	115.10	78.07	-91.79	6,347.01	-4,249.90	4,096.79	3,903.71	193.08	21.218		
12,200.00	6,083.00	10,165.00	6,202.84	116.85	75.12	-91.75	6,518.96	-4,252.36	4,098.83	3,907.02	191.82	21.369		
12,300.00	6,083.00	10,085.13	6,203.13	118.59	73.76	-91.75	6,598.82	-4,252.52	4,099.40	3,907.18	192.22	21.327		
12,400.00	6,083.00	10,015.14	6,206.36	120.33	72.56	-91.79	6,668.73	-4,253.02	4,100.61	3,907.82	192.79	21.270		
12,500.00	6,083.00	9,939.96	6,210.19	122.08	71.28	-91.85	6,743.80	-4,254.12	4,102.55	3,909.30	193.26	21.228		
12,600.00	6,083.00	9,877.00	6,211.72	123.82	70.21	-91.87	6,806.73	-4,255.32	4,105.00	3,911.07	193.93	21.167		
12,700.00	6,083.00	9,818.74	6,212.04	125.57	69.21	-91.87	6,864.97	-4,257.02	4,108.41	3,913.74	194.67	21.104		
12,800.00	6,083.00	9,685.00	6,211.80	127.32	66.93	-91.87	6,998.59	-4,262.40	4,112.99	3,918.84	194.15	21.185		
12,900.00	6,083.00	9,608.49	6,211.90	129.07	65.63	-91.87	7,075.07	-4,264.87	4,116.56	3,921.97	194.59	21.155		
13,000.00	6,083.00	9,415.82	6,213.12	130.81	62.38	-91.88	7,267.68	-4,269.15	4,119.00	3,925.92	193.08	21.333		
13,100.00	6,083.00	9,298.78	6,213.31	132.56	60.42	-91.88	7,384.71	-4,270.39	4,120.40	3,927.54	192.85	21.365		
13,200.00	6,083.00	9,191.36	6,214.86	134.31	58.63	-91.90	7,492.11	-4,271.10	4,121.44	3,928.64	192.81	21.376		
13,300.00	6,083.00	9,110.00	6,215.97	136.06	57.27	-91.92	7,573.46	-4,271.84	4,122.72	3,929.51	193.21	21.338		
13,400.00	6,083.00	9,072.53	6,216.18	137.81	56.65	-91.92	7,610.92	-4,272.56	4,124.97	3,930.61	194.36	21.224		
13,500.00	6,083.00	9,014.00	6,216.31	139.57	55.68	-91.92	7,669.41	-4,274.75	4,128.82	3,933.69	195.12	21.160		
13,600.00	6,083.00	8,938.21	6,216.59	141.32	54.42	-91.92	7,745.13	-4,278.17	4,133.54	3,937.94	195.59	21.133		
13,700.00	6,083.00	8,773.06	6,217.21	143.07	51.70	-91.93	7,910.18	-4,283.68	4,137.16	3,942.50	194.66	21.253		
13,800.00	6,083.00	8,650.65	6,216.37	144.82	49.70	-91.92	8,032.55	-4,286.60	4,139.85	3,945.43	194.42	21.293		
13,900.00	6,083.00	8,518.83	6,215.14	146.58	47.58	-91.90	8,164.34	-4,288.78	4,141.78	3,947.74	194.04	21.345		
14,000.00	6,083.00	8,442.00	6,215.14	148.33	46.35	-91.90	8,241.16	-4,290.11	4,143.82	3,949.25	194.57	21.297		
14,100.00	6,083.00	8,328.69	6,215.70	150.09	44.55	-91.90	8,354.46	-4,292.22	4,146.06	3,951.53	194.52	21.314		
14,200.00	6,083.00	8,198.93	6,216.28	151.84	42.52	-91.91	8,484.20	-4,293.61	4,147.45	3,953.21	194.23	21.353		
14,300.00	6,083.00	8,154.00	6,216.39	153.60	41.82	-91.91	8,529.13	-4,293.99	4,149.01	3,953.71	195.31	21.244		
14,400.00	6,083.00	8,083.87	6,216.87	155.35	40.74	-91.92	8,599.24	-4,295.30	4,151.44	3,955.46	195.97	21.184		
14,500.00	6,083.00	7,869.03	6,221.00	157.11	37.49	-91.97	8,814.00	-4,299.08	4,153.94	3,959.49	194.44	21.363		
14,600.00	6,083.00	7,720.52	6,222.05	158.87	35.33	-91.99	8,962.49	-4,297.70	4,153.15	3,959.16	193.98	21.410		
14,700.00	6,083.00	7,623.44	6,219.03	160.62	33.95	-91.95	9,059.52	-4,297.09	4,152.74	3,958.38	194.37	21.366		
14,800.00	6,083.00	7,543.23	6,216.13	162.38	32.83	-91.91	9,139.67	-4,296.33	4,152.09	3,957.06	195.03	21.290		
14,810.41	6,083.00	7,538.29	6,216.01	162.57	32.76	-91.90	9,144.60	-4,296.32	4,152.08	3,956.93	195.15	21.276		
14,900.00	6,083.00	7,480.00	6,215.45	164.14	31.96	-91.90	9,202.89	-4,296.59	4,152.66	3,956.71	195.95	21.192		
15,000.00	6,083.00	7,440.25	6,215.59	165.90	31.43	-91.90	9,242.63	-4,297.20	4,154.29	3,957.10	197.20	21.067		
15,100.00	6,083.00	7,384.00	6,215.79	167.66	30.67	-91.90	9,298.87	-4,298.50	4,156.99	3,958.80	198.19	20.975		
15,200.00	6,083.00	7,288.00	6,217.80	169.42	29.43	-91.93	9,394.81	-4,301.25	4,160.26	3,961.56	198.70	20.938		
15,300.00	6,083.00	7,221.49	6,220.47	171.17	28.59	-91.96	9,461.22	-4,303.45	4,164.03	3,964.44	199.59	20.863		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 ROSENBERG 6-61-30-0758BH - OWB - FINAL SURVEY												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 755-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	6,083.00	7,097.00	6,225.30	172.93	27.08	-92.03	9,585.54	-4,307.79	4,168.02	3,968.16	199.86	20.855	
15,500.00	6,083.00	7,030.14	6,226.67	174.69	26.33	-92.04	9,652.35	-4,310.05	4,171.87	3,971.04	200.83	20.773	
15,600.00	6,083.00	6,772.72	6,227.71	176.45	23.75	-92.05	9,909.65	-4,316.81	4,175.64	3,975.58	200.05	20.872	
15,700.00	6,083.00	6,623.21	6,224.91	178.21	22.54	-92.02	10,059.10	-4,316.32	4,175.56	3,974.98	200.57	20.818	
15,800.00	6,083.00	6,535.00	6,216.12	179.98	21.93	-91.90	10,146.85	-4,315.84	4,175.02	3,973.27	201.75	20.694	
15,882.16	6,083.00	6,457.00	6,202.64	181.42	21.45	-91.71	10,223.65	-4,315.92	4,174.93	3,972.18	202.75	20.591	
15,900.00	6,083.00	6,448.05	6,200.55	181.74	21.40	-91.68	10,232.36	-4,315.94	4,174.91	3,971.89	203.02	20.564	
16,000.00	6,083.00	6,362.46	6,172.02	183.50	20.95	-91.29	10,312.93	-4,316.83	4,175.39	3,971.01	204.38	20.429	
16,013.13	6,083.00	6,361.00	6,171.41	183.73	20.94	-91.28	10,314.25	-4,316.85	4,175.47	3,970.86	204.61	20.407 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 (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	10,700.00	6,210.16	0.00	83.52	-31.82	6,037.30	-3,746.32	9,441.24							
100.00	100.00	10,700.00	6,210.16	0.27	83.52	-31.82	6,037.30	-3,746.32	9,375.69	9,332.81	42.88	218.666				
200.00	200.00	10,700.00	6,210.16	0.63	83.52	-31.82	6,037.30	-3,746.32	9,310.75	9,267.80	42.95	216.773				
300.00	300.00	10,700.00	6,210.16	0.99	83.52	-31.82	6,037.30	-3,746.32	9,246.44	9,203.36	43.08	214.657				
400.00	400.00	10,700.00	6,210.16	1.34	83.52	-31.82	6,037.30	-3,746.32	9,182.77	9,139.53	43.24	212.361				
500.00	499.98	10,700.00	6,210.16	1.70	83.52	12.96	6,037.30	-3,746.32	9,118.43	9,074.97	43.46	209.821				
600.00	599.88	10,700.00	6,210.16	2.06	83.52	13.07	6,037.30	-3,746.32	9,052.80	9,009.09	43.70	207.150				
700.00	699.78	10,700.00	6,210.16	2.42	83.52	13.07	6,037.30	-3,746.32	8,987.69	8,943.75	43.93	204.585				
800.00	799.68	10,700.00	6,210.16	2.78	83.52	13.07	6,037.30	-3,746.32	8,923.22	8,879.04	44.18	201.980				
900.00	899.58	10,700.00	6,210.16	3.14	83.52	13.07	6,037.30	-3,746.32	8,859.42	8,814.98	44.44	199.354				
1,000.00	999.48	10,700.00	6,210.16	3.50	83.52	13.07	6,037.30	-3,746.32	8,796.28	8,751.57	44.71	196.722				
1,100.00	1,099.38	10,700.00	6,210.16	3.87	83.52	13.07	6,037.30	-3,746.32	8,733.84	8,688.84	45.00	194.092				
1,200.00	1,199.28	10,700.00	6,210.16	4.23	83.52	13.07	6,037.30	-3,746.32	8,672.10	8,626.81	45.29	191.474				
1,300.00	1,299.18	10,700.00	6,210.16	4.59	83.52	13.07	6,037.30	-3,746.32	8,611.08	8,565.49	45.59	188.874				
1,400.00	1,399.08	10,700.00	6,210.16	4.96	83.52	13.07	6,037.30	-3,746.32	8,550.80	8,504.90	45.90	186.296				
1,500.00	1,498.97	10,700.00	6,210.16	5.32	83.52	13.07	6,037.30	-3,746.32	8,491.26	8,445.05	46.21	183.744				
1,600.00	1,598.87	10,700.00	6,210.16	5.69	83.52	13.07	6,037.30	-3,746.32	8,432.49	8,385.96	46.53	181.220				
1,700.00	1,698.77	10,700.00	6,210.16	6.05	83.52	13.07	6,037.30	-3,746.32	8,374.50	8,327.64	46.86	178.728				
1,800.00	1,798.67	10,700.00	6,210.16	6.42	83.52	13.07	6,037.30	-3,746.32	8,317.31	8,270.12	47.19	176.269				
1,900.00	1,898.57	10,700.00	6,210.16	6.78	83.52	13.07	6,037.30	-3,746.32	8,260.93	8,213.41	47.52	173.845				
2,000.00	1,998.47	10,700.00	6,210.16	7.15	83.52	13.07	6,037.30	-3,746.32	8,205.39	8,157.53	47.86	171.456				
2,100.00	2,098.37	10,700.00	6,210.16	7.51	83.52	13.07	6,037.30	-3,746.32	8,150.69	8,102.49	48.20	169.105				
2,200.00	2,198.27	10,700.00	6,210.16	7.87	83.52	13.07	6,037.30	-3,746.32	8,096.86	8,048.31	48.54	166.792				
2,300.00	2,298.17	10,700.00	6,210.16	8.24	83.52	13.07	6,037.30	-3,746.32	8,043.91	7,995.02	48.89	164.517				
2,400.00	2,398.06	10,700.00	6,210.16	8.60	83.52	13.07	6,037.30	-3,746.32	7,991.86	7,942.62	49.25	162.282				
2,500.00	2,497.96	10,700.00	6,210.16	8.97	83.52	13.07	6,037.30	-3,746.32	7,940.73	7,891.13	49.60	160.087				
2,600.00	2,597.86	10,700.00	6,210.16	9.33	83.52	13.07	6,037.30	-3,746.32	7,890.54	7,840.58	49.96	157.933				
2,700.00	2,697.76	10,700.00	6,210.16	9.70	83.52	13.07	6,037.30	-3,746.32	7,841.30	7,790.98	50.32	155.819				
2,800.00	2,797.66	10,700.00	6,210.16	10.06	83.52	13.07	6,037.30	-3,746.32	7,793.03	7,742.34	50.69	153.747				
2,900.00	2,897.56	10,700.00	6,210.16	10.43	83.52	13.07	6,037.30	-3,746.32	7,745.76	7,694.70	51.05	151.716				
3,000.00	2,997.46	10,700.00	6,210.16	10.79	83.52	13.07	6,037.30	-3,746.32	7,699.49	7,648.06	51.42	149.728				
3,100.00	3,097.36	10,700.00	6,210.16	11.16	83.52	13.07	6,037.30	-3,746.32	7,654.25	7,602.45	51.79	147.781				
3,200.00	3,197.25	10,700.00	6,210.16	11.52	83.52	13.07	6,037.30	-3,746.32	7,610.05	7,557.88	52.17	145.877				
3,300.00	3,297.15	10,700.00	6,210.16	11.89	83.52	13.07	6,037.30	-3,746.32	7,566.92	7,514.37	52.54	144.015				
3,400.00	3,397.05	10,700.00	6,210.16	12.25	83.52	13.07	6,037.30	-3,746.32	7,524.86	7,471.95	52.92	142.197				
3,500.00	3,496.95	10,700.00	6,210.16	12.62	83.52	13.07	6,037.30	-3,746.32	7,483.91	7,430.62	53.30	140.421				
3,600.00	3,596.85	10,700.00	6,210.16	12.98	83.52	13.07	6,037.30	-3,746.32	7,444.08	7,390.41	53.68	138.687				
3,700.00	3,696.75	10,700.00	6,210.16	13.35	83.52	13.07	6,037.30	-3,746.32	7,405.38	7,351.33	54.05	136.997				
3,800.00	3,796.65	10,700.00	6,210.16	13.72	83.52	13.07	6,037.30	-3,746.32	7,367.84	7,313.41	54.44	135.350				
3,900.00	3,896.55	10,700.00	6,210.16	14.08	83.52	13.07	6,037.30	-3,746.32	7,331.47	7,276.65	54.82	133.746				
4,000.00	3,996.45	10,700.00	6,210.16	14.45	83.52	13.07	6,037.30	-3,746.32	7,296.29	7,241.09	55.20	132.185				
4,100.00	4,096.34	10,700.00	6,210.16	14.81	83.52	13.07	6,037.30	-3,746.32	7,262.31	7,206.74	55.58	130.667				
4,200.00	4,196.24	10,700.00	6,210.16	15.18	83.52	13.07	6,037.30	-3,746.32	7,229.56	7,173.60	55.96	129.192				
4,300.00	4,296.14	10,700.00	6,210.16	15.54	83.52	13.07	6,037.30	-3,746.32	7,198.05	7,141.71	56.34	127.760				
4,400.00	4,396.04	10,700.00	6,210.16	15.91	83.52	13.07	6,037.30	-3,746.32	7,167.80	7,111.08	56.72	126.371				
4,500.00	4,495.94	10,700.00	6,210.16	16.27	83.52	13.07	6,037.30	-3,746.32	7,138.82	7,081.72	57.10	125.025				
4,600.00	4,595.84	10,700.00	6,210.16	16.64	83.52	13.07	6,037.30	-3,746.32	7,111.12	7,053.65	57.48	123.721				
4,700.00	4,695.74	10,700.00	6,210.16	17.00	83.52	13.07	6,037.30	-3,746.32	7,084.73	7,026.88	57.85	122.460				
4,800.00	4,795.64	10,700.00	6,210.16	17.37	83.52	13.07	6,037.30	-3,746.32	7,059.66	7,001.43	58.23	121.241				
4,900.00	4,895.54	10,700.00	6,210.16	17.73	83.52	13.07	6,037.30	-3,746.32	7,035.92	6,977.32	58.60	120.065				
5,000.00	4,995.43	10,700.00	6,210.16	18.10	83.52	13.07	6,037.30	-3,746.32	7,013.53	6,954.56	58.97	118.930				
5,100.00	5,095.33	10,700.00	6,210.16	18.46	83.52	13.07	6,037.30	-3,746.32	6,992.49	6,933.15	59.34	117.838				

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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: 750-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	5,195.23	10,700.00	6,210.16	18.83	83.52	13.07	6,037.30	-3,746.32	6,972.83	6,913.12	59.71	116.786		
5,300.00	5,295.13	10,700.00	6,210.16	19.19	83.52	13.07	6,037.30	-3,746.32	6,954.54	6,894.48	60.07	115.777		
5,400.00	5,395.03	10,700.00	6,210.16	19.56	83.52	13.07	6,037.30	-3,746.32	6,937.66	6,877.23	60.43	114.808		
5,500.00	5,494.93	10,700.00	6,210.16	19.92	83.52	13.07	6,037.30	-3,746.32	6,922.17	6,861.39	60.79	113.879		
5,600.00	5,594.86	10,700.00	6,210.16	20.29	83.52	-20.10	6,037.30	-3,746.32	6,904.89	6,843.73	61.16	112.907		
5,700.00	5,691.64	10,700.00	6,210.16	20.69	83.52	-28.21	6,037.30	-3,746.32	6,875.48	6,813.89	61.59	111.637		
5,800.00	5,783.21	10,700.00	6,210.16	21.10	83.52	-32.76	6,037.30	-3,746.32	6,833.83	6,771.76	62.07	110.092		
5,900.00	5,866.49	10,700.00	6,210.16	21.55	83.52	-37.53	6,037.30	-3,746.32	6,781.01	6,718.40	62.61	108.312		
6,000.00	5,938.95	10,700.00	6,210.16	22.06	83.52	-43.53	6,037.30	-3,746.32	6,718.36	6,655.18	63.18	106.334		
6,100.00	5,998.39	10,700.00	6,210.16	22.64	83.52	-51.49	6,037.30	-3,746.32	6,647.55	6,583.75	63.80	104.196		
6,200.00	6,043.00	10,700.00	6,210.16	23.31	83.52	-62.00	6,037.30	-3,746.32	6,570.50	6,506.04	64.46	101.937		
6,300.00	6,071.42	10,700.00	6,210.16	24.06	83.52	-75.15	6,037.30	-3,746.32	6,489.37	6,424.22	65.16	99.596		
6,400.00	6,082.79	10,700.00	6,210.16	24.89	83.52	-89.86	6,037.30	-3,746.32	6,406.53	6,340.63	65.90	97.217		
6,500.00	6,083.00	10,700.00	6,210.16	25.78	83.52	-92.14	6,037.30	-3,746.32	6,323.96	6,257.27	66.69	94.820		
6,600.00	6,083.00	10,700.00	6,210.16	26.77	83.52	-92.14	6,037.30	-3,746.32	6,241.92	6,174.35	67.56	92.387		
6,700.00	6,083.00	10,700.00	6,210.16	27.83	83.52	-92.14	6,037.30	-3,746.32	6,160.40	6,091.89	68.51	89.922		
6,800.00	6,083.00	10,700.00	6,210.16	28.96	83.52	-92.14	6,037.30	-3,746.32	6,079.44	6,009.90	69.53	87.434		
6,900.00	6,083.00	10,700.00	6,210.16	30.15	83.52	-92.14	6,037.30	-3,746.32	5,999.04	5,928.41	70.63	84.931		
7,000.00	6,083.00	10,700.00	6,210.16	31.40	83.52	-92.14	6,037.30	-3,746.32	5,919.25	5,847.43	71.82	82.420		
7,100.00	6,083.00	10,700.00	6,210.16	32.70	83.52	-92.14	6,037.30	-3,746.32	5,840.08	5,767.00	73.08	79.909		
7,200.00	6,083.00	10,700.00	6,210.16	34.04	83.52	-92.14	6,037.30	-3,746.32	5,761.56	5,687.12	74.43	77.406		
7,300.00	6,083.00	10,700.00	6,210.16	35.42	83.52	-92.14	6,037.30	-3,746.32	5,683.71	5,607.84	75.86	74.919		
7,400.00	6,083.00	10,700.00	6,210.16	36.83	83.52	-92.14	6,037.30	-3,746.32	5,606.56	5,529.18	77.38	72.456		
7,500.00	6,083.00	10,700.00	6,210.16	38.27	83.52	-92.14	6,037.30	-3,746.32	5,530.15	5,451.17	78.98	70.022		
7,600.00	6,083.00	10,700.00	6,210.16	39.74	83.52	-92.14	6,037.30	-3,746.32	5,454.50	5,373.84	80.66	67.625		
7,700.00	6,083.00	10,700.00	6,210.16	41.23	83.52	-92.14	6,037.30	-3,746.32	5,379.64	5,297.22	82.42	65.270		
7,800.00	6,083.00	10,700.00	6,210.16	42.75	83.52	-92.14	6,037.30	-3,746.32	5,305.62	5,221.35	84.27	62.963		
7,900.00	6,083.00	10,700.00	6,210.16	44.28	83.52	-92.14	6,037.30	-3,746.32	5,232.45	5,146.26	86.19	60.707		
8,000.00	6,083.00	10,700.00	6,210.16	45.83	83.52	-92.14	6,037.30	-3,746.32	5,160.19	5,071.99	88.20	58.506		
8,100.00	6,083.00	10,700.00	6,210.16	47.40	83.52	-92.14	6,037.30	-3,746.32	5,088.87	4,998.58	90.29	56.364		
8,200.00	6,083.00	10,700.00	6,210.16	48.98	83.52	-92.14	6,037.30	-3,746.32	5,018.52	4,926.07	92.45	54.283		
8,300.00	6,083.00	10,700.00	6,210.16	50.57	83.52	-92.14	6,037.30	-3,746.32	4,949.20	4,854.50	94.69	52.265		
8,400.00	6,083.00	10,700.00	6,210.16	52.18	83.52	-92.14	6,037.30	-3,746.32	4,880.94	4,783.93	97.01	50.312		
8,500.00	6,083.00	10,700.00	6,210.16	53.79	83.52	-92.14	6,037.30	-3,746.32	4,813.79	4,714.38	99.41	48.425		
8,600.00	6,083.00	10,700.00	6,210.16	55.42	83.52	-92.14	6,037.30	-3,746.32	4,747.80	4,645.92	101.88	46.604		
8,700.00	6,083.00	10,700.00	6,210.16	57.05	83.52	-92.14	6,037.30	-3,746.32	4,683.01	4,578.59	104.42	44.849		
8,800.00	6,083.00	10,700.00	6,210.16	58.70	83.52	-92.14	6,037.30	-3,746.32	4,619.48	4,512.45	107.03	43.162		
8,900.00	6,083.00	10,700.00	6,210.16	60.35	83.52	-92.14	6,037.30	-3,746.32	4,557.26	4,447.55	109.71	41.541		
9,000.00	6,083.00	10,700.00	6,210.16	62.00	83.52	-92.14	6,037.30	-3,746.32	4,496.40	4,383.95	112.45	39.986		
9,100.00	6,083.00	10,700.00	6,210.16	63.66	83.52	-92.14	6,037.30	-3,746.32	4,436.96	4,321.70	115.26	38.497		
9,200.00	6,083.00	10,700.00	6,210.16	65.33	83.52	-92.14	6,037.30	-3,746.32	4,378.99	4,260.87	118.12	37.072		
9,300.00	6,083.00	10,700.00	6,210.16	67.01	83.52	-92.14	6,037.30	-3,746.32	4,322.57	4,201.52	121.04	35.711		
9,400.00	6,083.00	10,700.00	6,210.16	68.69	83.52	-92.14	6,037.30	-3,746.32	4,267.74	4,143.72	124.02	34.412		
9,500.00	6,083.00	10,700.00	6,210.16	70.37	83.52	-92.14	6,037.30	-3,746.32	4,214.57	4,087.53	127.04	33.175		
9,600.00	6,083.00	10,700.00	6,210.16	72.06	83.52	-92.14	6,037.30	-3,746.32	4,163.12	4,033.02	130.11	31.998		
9,700.00	6,083.00	10,700.00	6,210.16	73.75	83.52	-92.14	6,037.30	-3,746.32	4,113.46	3,980.25	133.21	30.879		
9,800.00	6,083.00	10,700.00	6,210.16	75.45	83.52	-92.14	6,037.30	-3,746.32	4,065.66	3,929.31	136.35	29.819		
9,900.00	6,083.00	10,700.00	6,210.16	77.15	83.52	-92.14	6,037.30	-3,746.32	4,019.78	3,880.27	139.51	28.814		
10,000.00	6,083.00	10,700.00	6,210.16	78.85	83.52	-92.14	6,037.30	-3,746.32	3,975.88	3,833.19	142.69	27.864		
10,100.00	6,083.00	10,700.00	6,210.16	80.56	83.52	-92.14	6,037.30	-3,746.32	3,934.03	3,788.15	145.88	26.968		
10,200.00	6,083.00	10,700.00	6,210.16	82.26	83.52	-92.14	6,037.30	-3,746.32	3,894.30	3,745.23	149.07	26.124		
10,300.00	6,083.00	10,700.00	6,210.16	83.98	83.52	-92.14	6,037.30	-3,746.32	3,856.76	3,704.50	152.26	25.330		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 (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	6,083.00	10,700.00	6,210.16	85.69	83.52	-92.14	6,037.30	-3,746.32	3,821.47	3,666.03	155.44	24.585		
10,500.00	6,083.00	10,700.00	6,210.16	87.41	83.52	-92.14	6,037.30	-3,746.32	3,788.48	3,629.89	158.59	23.888		
10,600.00	6,083.00	10,700.00	6,210.16	89.12	83.52	-92.14	6,037.30	-3,746.32	3,757.87	3,596.16	161.71	23.238		
10,700.00	6,083.00	10,700.00	6,210.16	90.85	83.52	-92.14	6,037.30	-3,746.32	3,729.69	3,564.90	164.79	22.633		
10,800.00	6,083.00	10,700.00	6,210.16	92.57	83.52	-92.14	6,037.30	-3,746.32	3,704.00	3,536.19	167.81	22.072		
10,900.00	6,083.00	10,700.00	6,210.16	94.29	83.52	-92.14	6,037.30	-3,746.32	3,680.84	3,510.07	170.78	21.554		
11,000.00	6,083.00	10,700.00	6,210.16	96.02	83.52	-92.14	6,037.30	-3,746.32	3,660.28	3,486.61	173.67	21.076		
11,100.00	6,083.00	10,700.00	6,210.16	97.75	83.52	-92.14	6,037.30	-3,746.32	3,642.34	3,465.86	176.47	20.639		
11,200.00	6,083.00	10,700.00	6,210.16	99.48	83.52	-92.14	6,037.30	-3,746.32	3,627.07	3,447.88	179.19	20.242		
11,300.00	6,083.00	10,700.00	6,210.16	101.21	83.52	-92.14	6,037.30	-3,746.32	3,614.50	3,432.70	181.80	19.881		
11,400.00	6,083.00	10,700.00	6,210.16	102.94	83.52	-92.14	6,037.30	-3,746.32	3,604.67	3,420.36	184.31	19.558		
11,500.00	6,083.00	10,700.00	6,210.16	104.67	83.52	-92.14	6,037.30	-3,746.32	3,597.59	3,410.89	186.69	19.270		
11,600.00	6,083.00	10,700.00	6,210.16	106.41	83.52	-92.14	6,037.30	-3,746.32	3,593.28	3,404.32	188.95	19.017		
11,700.00	6,083.00	10,700.00	6,210.16	108.15	83.52	-92.14	6,037.30	-3,746.32	3,591.74	3,400.66	191.08	18.797		
11,704.99	6,083.00	10,700.00	6,210.16	108.23	83.52	-92.14	6,037.30	-3,746.32	3,591.74	3,400.56	191.18	18.787		
11,800.00	6,083.00	10,663.69	6,210.22	109.88	82.89	-92.14	6,073.61	-3,746.76	3,592.78	3,400.41	192.37	18.676		
11,900.00	6,083.00	10,515.64	6,209.87	111.62	80.37	-92.13	6,221.66	-3,747.52	3,593.57	3,402.12	191.44	18.771		
12,000.00	6,083.00	10,403.66	6,208.86	113.36	78.46	-92.12	6,333.63	-3,747.42	3,593.80	3,402.57	191.23	18.793		
12,100.00	6,083.00	10,224.58	6,209.08	115.10	75.45	-92.12	6,512.65	-3,743.80	3,591.69	3,402.05	189.64	18.940		
12,200.00	6,083.00	10,161.00	6,209.63	116.85	74.38	-92.13	6,576.22	-3,743.02	3,590.52	3,400.07	190.45	18.853		
12,243.95	6,083.00	10,161.00	6,209.63	117.61	74.38	-92.13	6,576.22	-3,743.02	3,590.25	3,398.88	191.37	18.761		
12,300.00	6,083.00	10,134.15	6,209.81	118.59	73.92	-92.14	6,603.07	-3,743.10	3,590.55	3,398.58	191.97	18.703		
12,400.00	6,083.00	9,971.00	6,210.30	120.33	71.18	-92.14	6,766.21	-3,742.90	3,590.96	3,400.21	190.75	18.825		
12,500.00	6,083.00	9,904.68	6,209.70	122.08	70.07	-92.13	6,832.52	-3,741.88	3,589.98	3,398.49	191.49	18.748		
12,529.89	6,083.00	9,875.00	6,209.04	122.60	69.57	-92.12	6,862.19	-3,741.96	3,590.14	3,398.63	191.51	18.746		
12,600.00	6,083.00	9,841.78	6,208.40	123.82	69.01	-92.11	6,895.40	-3,742.22	3,590.69	3,398.41	192.28	18.674		
12,700.00	6,083.00	9,716.77	6,209.32	125.57	66.92	-92.13	7,020.40	-3,742.75	3,591.50	3,399.65	191.85	18.720		
12,800.00	6,083.00	9,547.43	6,212.06	127.32	64.12	-92.17	7,189.69	-3,739.97	3,589.84	3,399.31	190.53	18.842		
12,900.00	6,083.00	9,492.00	6,212.71	129.07	63.20	-92.18	7,245.11	-3,739.31	3,588.96	3,397.45	191.51	18.740		
12,912.82	6,083.00	9,492.00	6,212.71	129.29	63.20	-92.18	7,245.11	-3,739.31	3,588.94	3,397.16	191.77	18.714		
13,000.00	6,083.00	9,430.10	6,212.60	130.81	62.18	-92.18	7,307.01	-3,739.33	3,589.25	3,396.91	192.34	18.661		
13,100.00	6,083.00	9,299.00	6,209.94	132.56	60.02	-92.14	7,438.08	-3,739.62	3,589.79	3,397.98	191.82	18.715		
13,148.86	6,083.00	9,255.92	6,209.47	133.42	59.31	-92.13	7,481.15	-3,739.39	3,589.69	3,397.72	191.98	18.698		
13,200.00	6,083.00	9,218.52	6,209.54	134.31	58.70	-92.13	7,518.55	-3,739.33	3,589.79	3,397.50	192.30	18.668		
13,300.00	6,083.00	9,036.79	6,212.52	136.06	55.76	-92.18	7,700.24	-3,737.00	3,588.80	3,398.02	190.78	18.811		
13,400.00	6,083.00	8,949.02	6,213.82	137.81	54.35	-92.20	7,787.98	-3,735.03	3,586.98	3,395.83	191.15	18.765		
13,500.00	6,083.00	8,863.57	6,212.46	139.57	52.99	-92.18	7,873.40	-3,733.68	3,585.67	3,394.09	191.57	18.717		
13,600.00	6,083.00	8,793.91	6,210.52	141.32	51.88	-92.15	7,943.03	-3,732.88	3,584.81	3,392.51	192.30	18.641		
13,622.09	6,083.00	8,782.57	6,210.27	141.71	51.70	-92.15	7,954.36	-3,732.83	3,584.78	3,392.24	192.54	18.618 CC		
13,700.00	6,083.00	8,725.00	6,209.51	143.07	50.78	-92.13	8,011.93	-3,733.10	3,585.27	3,392.24	193.04	18.573		
13,800.00	6,083.00	8,630.00	6,210.01	144.82	49.28	-92.14	8,106.92	-3,733.67	3,586.21	3,392.93	193.28	18.555		
13,900.00	6,083.00	8,630.00	6,210.01	146.58	49.28	-92.14	8,106.92	-3,733.67	3,588.31	3,393.09	195.22	18.381		
14,000.00	6,083.00	8,534.00	6,210.60	148.33	47.76	-92.15	8,202.85	-3,736.75	3,591.88	3,396.43	195.44	18.378		
14,100.00	6,083.00	8,534.00	6,210.60	150.09	47.76	-92.15	8,202.85	-3,736.75	3,596.87	3,399.64	197.24	18.236		
14,200.00	6,083.00	8,454.49	6,210.73	151.84	46.50	-92.15	8,282.19	-3,741.92	3,603.68	3,405.98	197.71	18.227		
14,300.00	6,083.00	8,246.49	6,209.67	153.60	43.25	-92.12	8,489.87	-3,753.07	3,609.61	3,413.42	196.19	18.399		
14,400.00	6,083.00	8,009.09	6,208.93	155.35	39.70	-92.11	8,727.18	-3,757.72	3,612.23	3,418.11	194.11	18.609		
14,500.00	6,083.00	7,878.55	6,208.97	157.11	37.83	-92.11	8,857.71	-3,756.80	3,611.83	3,417.96	193.87	18.630		
14,600.00	6,083.00	7,765.00	6,208.67	158.87	36.25	-92.11	8,971.24	-3,755.01	3,610.54	3,416.57	193.97	18.614		
14,677.93	6,083.00	7,726.01	6,209.09	160.24	35.71	-92.11	9,010.22	-3,754.49	3,609.96	3,415.06	194.90	18.522		
14,700.00	6,083.00	7,718.02	6,209.16	160.62	35.60	-92.11	9,018.22	-3,754.47	3,610.00	3,414.80	195.21	18.493		
14,800.00	6,083.00	7,669.00	6,209.51	162.38	34.93	-92.12	9,067.23	-3,755.07	3,611.34	3,414.96	196.38	18.390		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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: 750-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	6,083.00	7,669.00	6,209.51	164.14	34.93	-92.12	9,067.23	-3,755.07	3,614.53	3,416.31	198.22	18.235	
15,000.00	6,083.00	7,572.00	6,209.76	165.90	33.62	-92.12	9,164.14	-3,759.20	3,619.13	3,420.49	198.64	18.220	
15,100.00	6,083.00	7,572.00	6,209.76	167.66	33.62	-92.12	9,164.14	-3,759.20	3,625.16	3,424.83	200.33	18.096	
15,200.00	6,083.00	7,501.32	6,209.76	169.42	32.68	-92.12	9,234.65	-3,764.13	3,632.61	3,431.52	201.09	18.065	
15,300.00	6,083.00	7,270.01	6,211.35	171.17	29.76	-92.13	9,465.43	-3,779.08	3,640.00	3,439.98	200.02	18.198	
15,400.00	6,083.00	7,160.91	6,212.18	172.93	28.51	-92.14	9,574.43	-3,783.60	3,644.52	3,444.01	200.50	18.177	
15,500.00	6,083.00	6,840.66	6,209.79	174.69	25.43	-92.10	9,894.50	-3,789.24	3,648.24	3,449.40	198.84	18.348	
15,600.00	6,083.00	6,376.06	6,146.44	176.45	23.70	-91.12	10,345.41	-3,760.92	3,642.65	3,446.19	196.47	18.541	
15,700.00	6,083.00	6,072.00	5,964.79	178.21	23.64	-88.22	10,586.39	-3,728.79	3,631.42	3,434.97	196.45	18.485	
15,800.00	6,083.00	6,040.00	5,941.52	179.98	23.63	-87.85	10,607.97	-3,724.74	3,617.13	3,418.48	198.65	18.209	
15,900.00	6,083.00	6,021.63	5,927.45	181.74	23.63	-87.62	10,619.60	-3,722.77	3,605.20	3,404.34	200.86	17.948	
16,000.00	6,083.00	6,008.00	5,916.71	183.50	23.62	-87.45	10,627.90	-3,721.44	3,595.68	3,392.66	203.01	17.711	
16,013.13	6,083.00	6,008.00	5,916.71	183.73	23.62	-87.45	10,627.90	-3,721.44	3,594.62	3,391.32	203.30	17.681 ES, SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
0.00	0.00	0.00	0.00	0.00	0.00	0.01	60.11	0.00	60.11					
100.00	100.00	100.00	100.00	0.27	0.27	0.01	60.11	0.00	60.11	59.57	0.54	111.793 CC		
200.00	200.00	199.87	199.85	0.63	0.62	-1.66	60.18	-1.74	60.21	58.96	1.25	48.201		
300.00	300.00	299.50	299.34	0.99	0.98	-6.55	60.40	-6.94	60.80	58.84	1.97	30.913 ES		
400.00	400.00	398.65	398.11	1.34	1.35	-14.35	60.76	-15.54	62.74	60.05	2.70	23.251		
500.00	499.98	497.24	495.97	1.70	1.75	20.75	61.26	-27.47	65.63	62.19	3.44	19.084		
600.00	599.88	595.23	592.77	2.06	2.16	10.66	61.89	-42.66	69.54	65.36	4.18	16.640		
700.00	699.78	692.29	688.08	2.42	2.60	0.22	62.66	-60.96	77.71	72.80	4.91	15.829		
800.00	799.68	788.21	781.61	2.78	3.08	-9.14	63.54	-82.20	90.79	85.17	5.62	16.161		
900.00	899.58	882.80	873.09	3.14	3.58	-16.76	64.55	-106.19	108.68	102.37	6.30	17.237		
1,000.00	999.48	975.88	962.30	3.50	4.12	-22.63	65.65	-132.74	131.00	124.03	6.97	18.794		
1,100.00	1,099.38	1,067.30	1,049.02	3.87	4.70	-27.06	66.86	-161.62	157.32	149.69	7.63	20.614		
1,200.00	1,199.28	1,156.91	1,133.10	4.23	5.31	-30.40	68.15	-192.60	187.28	179.00	8.28	22.620		
1,300.00	1,299.18	1,244.62	1,214.41	4.59	5.95	-32.94	69.52	-225.44	220.61	211.69	8.92	24.741		
1,400.00	1,399.08	1,330.30	1,292.83	4.96	6.63	-34.88	70.96	-259.92	257.07	247.52	9.54	26.938		
1,500.00	1,498.97	1,413.90	1,368.32	5.32	7.33	-36.40	72.46	-295.80	296.46	286.30	10.16	29.189		
1,600.00	1,598.87	1,496.38	1,441.75	5.69	8.07	-37.60	74.03	-333.33	338.62	327.85	10.77	31.436		
1,700.00	1,698.77	1,586.33	1,521.37	6.05	8.91	-38.65	75.78	-375.15	381.90	370.41	11.50	33.218		
1,800.00	1,798.67	1,676.28	1,600.98	6.42	9.76	-39.48	77.52	-416.96	425.27	413.04	12.23	34.778		
1,900.00	1,898.57	1,766.23	1,680.60	6.78	10.62	-40.16	79.27	-458.78	468.70	455.74	12.96	36.153		
2,000.00	1,998.47	1,856.18	1,760.22	7.15	11.48	-40.73	81.01	-500.60	512.17	498.47	13.70	37.372		
2,100.00	2,098.37	1,946.13	1,839.84	7.51	12.35	-41.20	82.76	-542.42	555.68	541.23	14.45	38.460		
2,200.00	2,198.27	2,036.08	1,919.46	7.87	13.22	-41.61	84.51	-584.24	599.22	584.02	15.19	39.436		
2,300.00	2,298.17	2,126.03	1,999.08	8.24	14.09	-41.96	86.25	-626.06	642.77	626.83	15.94	40.316		
2,400.00	2,398.06	2,215.98	2,078.70	8.60	14.97	-42.27	88.00	-667.87	686.34	669.65	16.69	41.112		
2,500.00	2,497.96	2,305.93	2,158.32	8.97	15.85	-42.54	89.74	-709.69	729.93	712.48	17.45	41.837		
2,600.00	2,597.86	2,395.88	2,237.94	9.33	16.73	-42.78	91.49	-751.51	773.53	755.33	18.20	42.498		
2,700.00	2,697.76	2,485.83	2,317.56	9.70	17.61	-43.00	93.24	-793.33	817.14	798.18	18.96	43.103		
2,800.00	2,797.66	2,575.79	2,397.18	10.06	18.50	-43.19	94.98	-835.15	860.75	841.04	19.71	43.660		
2,900.00	2,897.56	2,665.74	2,476.80	10.43	19.38	-43.37	96.73	-876.96	904.38	883.90	20.47	44.174		
3,000.00	2,997.46	2,755.69	2,556.42	10.79	20.27	-43.52	98.47	-918.78	948.01	926.78	21.23	44.648		
3,100.00	3,097.36	2,845.64	2,636.04	11.16	21.15	-43.67	100.22	-960.60	991.64	969.65	21.99	45.089		
3,200.00	3,197.25	2,935.59	2,715.66	11.52	22.04	-43.80	101.97	-1,002.42	1,035.28	1,012.53	22.75	45.498		
3,300.00	3,297.15	3,025.54	2,795.28	11.89	22.93	-43.92	103.71	-1,044.24	1,078.93	1,055.41	23.52	45.880		
3,400.00	3,397.05	3,115.49	2,874.90	12.25	23.82	-44.03	105.46	-1,086.06	1,122.58	1,098.30	24.28	46.236		
3,500.00	3,496.95	3,205.44	2,954.52	12.62	24.71	-44.14	107.20	-1,127.87	1,166.23	1,141.18	25.04	46.569		
3,600.00	3,596.85	3,295.39	3,034.14	12.98	25.60	-44.23	108.95	-1,169.69	1,209.88	1,184.07	25.81	46.882		
3,700.00	3,696.75	3,385.34	3,113.76	13.35	26.49	-44.32	110.70	-1,211.51	1,253.54	1,226.97	26.57	47.176		
3,800.00	3,796.65	3,475.29	3,193.38	13.72	27.38	-44.41	112.44	-1,253.33	1,297.20	1,269.86	27.34	47.452		
3,900.00	3,896.55	3,565.24	3,273.00	14.08	28.27	-44.49	114.19	-1,295.15	1,340.86	1,312.75	28.10	47.713		
4,000.00	3,996.45	3,655.19	3,352.62	14.45	29.16	-44.56	115.93	-1,336.97	1,384.52	1,355.65	28.87	47.958		
4,100.00	4,096.34	3,745.14	3,432.24	14.81	30.05	-44.63	117.68	-1,378.78	1,428.18	1,398.55	29.64	48.191		
4,200.00	4,196.24	3,835.09	3,511.86	15.18	30.94	-44.69	119.43	-1,420.60	1,471.85	1,441.45	30.40	48.411		
4,300.00	4,296.14	3,925.04	3,591.48	15.54	31.84	-44.75	121.17	-1,462.42	1,515.52	1,484.35	31.17	48.620		
4,400.00	4,396.04	4,014.99	3,671.10	15.91	32.73	-44.81	122.92	-1,504.24	1,559.19	1,527.25	31.94	48.817		
4,500.00	4,495.94	4,104.95	3,750.72	16.27	33.62	-44.87	124.66	-1,546.06	1,602.86	1,570.15	32.71	49.005		
4,600.00	4,595.84	4,194.90	3,830.34	16.64	34.51	-44.92	126.41	-1,587.88	1,646.53	1,613.05	33.48	49.184		
4,700.00	4,695.74	4,284.85	3,909.96	17.00	35.41	-44.97	128.16	-1,629.69	1,690.20	1,655.95	34.25	49.355		
4,800.00	4,795.64	4,374.80	3,989.58	17.37	36.30	-45.01	129.90	-1,671.51	1,733.87	1,698.86	35.02	49.517		
4,900.00	4,895.54	4,464.75	4,069.19	17.73	37.19	-45.06	131.65	-1,713.33	1,777.55	1,741.76	35.79	49.672		
5,000.00	4,995.43	4,554.70	4,148.81	18.10	38.09	-45.10	133.39	-1,755.15	1,821.22	1,784.66	36.56	49.819		
5,100.00	5,095.33	4,644.65	4,228.43	18.46	38.98	-45.14	135.14	-1,796.97	1,864.90	1,827.57	37.33	49.961		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
5,200.00	5,195.23	4,734.60	4,308.05	18.83	39.87	-45.18	136.89	-1,838.79	1,908.57	1,870.47	38.10	50.096		
5,300.00	5,295.13	4,824.55	4,387.67	19.19	40.77	-45.21	138.63	-1,880.60	1,952.25	1,913.38	38.87	50.225		
5,400.00	5,395.03	4,914.50	4,467.29	19.56	41.66	-45.25	140.38	-1,922.42	1,995.93	1,956.29	39.64	50.349		
5,500.00	5,494.93	5,004.45	4,546.91	19.92	42.55	-45.28	142.13	-1,964.24	2,039.60	1,999.19	40.41	50.468		
5,600.00	5,594.56	5,094.23	4,626.38	20.29	43.45	-74.73	143.87	-2,005.98	2,083.22	2,042.02	41.19	50.570		
5,700.00	5,691.64	5,182.00	4,704.07	20.69	44.32	-77.04	145.57	-2,046.78	2,126.07	2,084.07	42.01	50.611		
5,800.00	5,783.21	5,265.11	4,777.64	21.10	45.14	-75.46	147.18	-2,085.42	2,167.36	2,124.49	42.86	50.565		
5,900.00	5,866.49	5,341.03	4,844.84	21.55	45.90	-73.38	148.66	-2,120.72	2,206.60	2,162.82	43.78	50.404		
6,000.00	5,938.95	5,407.46	4,903.64	22.06	46.56	-71.31	149.95	-2,151.60	2,243.58	2,198.80	44.78	50.102		
6,100.00	5,998.39	5,462.38	4,952.24	22.64	47.11	-69.28	151.01	-2,177.13	2,278.23	2,232.34	45.89	49.644		
6,200.00	6,043.00	5,504.11	4,989.18	23.31	47.52	-67.23	151.82	-2,196.53	2,310.49	2,263.37	47.12	49.033		
6,300.00	6,071.42	5,531.39	5,013.33	24.06	47.79	-65.11	152.35	-2,209.22	2,340.23	2,291.77	48.46	48.296		
6,400.00	6,082.79	5,543.39	5,023.96	24.89	47.91	-62.90	152.59	-2,214.80	2,367.16	2,317.30	49.86	47.474		
6,500.00	6,083.00	5,545.36	5,025.70	25.78	47.93	-62.59	152.62	-2,215.71	2,393.48	2,342.15	51.33	46.627		
6,600.00	6,083.00	5,547.15	5,027.28	26.77	47.95	-62.63	152.66	-2,216.54	2,423.56	2,370.67	52.89	45.820		
6,700.00	6,083.00	5,548.93	5,028.86	27.83	47.97	-62.68	152.69	-2,217.37	2,457.34	2,402.83	54.51	45.080		
6,800.00	6,083.00	5,550.71	5,030.44	28.96	47.98	-62.72	152.73	-2,218.20	2,494.68	2,438.52	56.16	44.421		
6,900.00	6,083.00	5,552.50	5,032.01	30.15	48.00	-62.77	152.76	-2,219.03	2,535.40	2,477.59	57.82	43.853		
7,000.00	6,083.00	5,554.28	5,033.59	31.40	48.02	-62.81	152.80	-2,219.86	2,579.37	2,519.91	59.46	43.380		
7,100.00	6,083.00	7,757.03	6,083.00	32.70	63.04	-90.00	1,428.85	-2,766.82	2,594.08	2,524.63	69.45	37.352		
7,200.00	6,083.00	7,857.03	6,083.00	34.04	63.58	-90.00	1,528.85	-2,766.49	2,594.08	2,522.11	71.97	36.044		
7,300.00	6,083.00	7,957.03	6,083.00	35.42	64.16	-90.00	1,628.85	-2,766.15	2,594.08	2,519.51	74.57	34.785		
7,400.00	6,083.00	8,057.03	6,083.00	36.83	64.77	-90.00	1,728.85	-2,765.82	2,594.09	2,516.83	77.25	33.579		
7,500.00	6,083.00	8,157.03	6,083.00	38.27	65.43	-90.00	1,828.84	-2,765.48	2,594.09	2,514.09	80.00	32.426		
7,600.00	6,083.00	8,257.03	6,083.00	39.74	66.13	-90.00	1,928.84	-2,765.14	2,594.10	2,511.29	82.81	31.327		
7,700.00	6,083.00	8,357.03	6,083.00	41.23	66.86	-90.00	2,028.84	-2,764.81	2,594.10	2,508.43	85.67	30.281		
7,800.00	6,083.00	8,457.03	6,083.00	42.75	67.63	-90.00	2,128.84	-2,764.47	2,594.10	2,505.53	88.58	29.287		
7,900.00	6,083.00	8,557.03	6,083.00	44.28	68.44	-90.00	2,228.84	-2,764.14	2,594.11	2,502.58	91.53	28.341		
8,000.00	6,083.00	8,657.03	6,083.00	45.83	69.29	-90.00	2,328.84	-2,763.80	2,594.11	2,499.59	94.53	27.443		
8,100.00	6,083.00	8,757.03	6,083.00	47.40	70.18	-90.00	2,428.84	-2,763.46	2,594.12	2,496.56	97.56	26.590		
8,200.00	6,083.00	8,857.03	6,083.00	48.98	71.10	-90.00	2,528.84	-2,763.13	2,594.12	2,493.50	100.62	25.780		
8,300.00	6,083.00	8,957.03	6,083.00	50.57	72.05	-90.00	2,628.84	-2,762.79	2,594.12	2,490.40	103.72	25.011		
8,400.00	6,083.00	9,057.03	6,083.00	52.18	73.05	-90.00	2,728.84	-2,762.46	2,594.13	2,487.28	106.84	24.280		
8,500.00	6,083.00	9,157.03	6,083.00	53.79	74.07	-90.00	2,828.84	-2,762.12	2,594.13	2,484.14	109.99	23.584		
8,600.00	6,083.00	9,257.03	6,083.00	55.42	75.12	-90.00	2,928.84	-2,761.79	2,594.14	2,480.97	113.17	22.923		
8,700.00	6,083.00	9,357.03	6,083.00	57.05	76.21	-90.00	3,028.84	-2,761.45	2,594.14	2,477.78	116.36	22.294		
8,800.00	6,083.00	9,457.03	6,083.00	58.70	77.33	-90.00	3,128.84	-2,761.11	2,594.14	2,474.57	119.57	21.695		
8,900.00	6,083.00	9,557.03	6,083.00	60.35	78.47	-90.00	3,228.84	-2,760.78	2,594.15	2,471.34	122.81	21.124		
9,000.00	6,083.00	9,657.03	6,083.00	62.00	79.64	-90.00	3,328.84	-2,760.44	2,594.15	2,468.10	126.06	20.579		
9,100.00	6,083.00	9,757.03	6,083.00	63.66	80.84	-90.00	3,428.84	-2,760.11	2,594.16	2,464.84	129.32	20.060		
9,200.00	6,083.00	9,857.03	6,083.00	65.33	82.06	-90.00	3,528.83	-2,759.77	2,594.16	2,461.56	132.60	19.564		
9,300.00	6,083.00	9,957.03	6,083.00	67.01	83.30	-90.00	3,628.83	-2,759.43	2,594.16	2,458.27	135.89	19.090		
9,400.00	6,083.00	10,057.03	6,083.00	68.69	84.57	-90.00	3,728.83	-2,759.10	2,594.17	2,454.97	139.20	18.636		
9,500.00	6,083.00	10,157.03	6,083.00	70.37	85.86	-90.00	3,828.83	-2,758.76	2,594.17	2,451.66	142.52	18.203		
9,600.00	6,083.00	10,257.03	6,083.00	72.06	87.17	-90.00	3,928.83	-2,758.43	2,594.18	2,448.33	145.84	17.787		
9,700.00	6,083.00	10,357.03	6,083.00	73.75	88.50	-90.00	4,028.83	-2,758.09	2,594.18	2,445.00	149.18	17.389		
9,800.00	6,083.00	10,457.03	6,083.00	75.45	89.85	-90.00	4,128.83	-2,757.75	2,594.18	2,441.66	152.53	17.008		
9,900.00	6,083.00	10,557.03	6,083.00	77.15	91.21	-90.00	4,228.83	-2,757.42	2,594.19	2,438.30	155.88	16.642		
10,000.00	6,083.00	10,657.03	6,083.00	78.85	92.59	-90.00	4,328.83	-2,757.08	2,594.19	2,434.94	159.25	16.290		
10,100.00	6,083.00	10,757.03	6,083.00	80.56	93.99	-90.00	4,428.83	-2,756.75	2,594.20	2,431.58	162.62	15.952		
10,200.00	6,083.00	10,857.03	6,083.00	82.26	95.40	-90.00	4,528.83	-2,756.41	2,594.20	2,428.20	166.00	15.628		
10,300.00	6,083.00	10,957.03	6,083.00	83.98	96.82	-90.00	4,628.83	-2,756.07	2,594.21	2,424.82	169.39	15.315		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,400.00	6,083.00	11,057.03	6,083.00	85.69	98.26	-90.00	4,728.83	-2,755.74	2,594.21	2,421.43	172.78	15.015		
10,500.00	6,083.00	11,157.03	6,083.00	87.41	99.71	-90.00	4,828.83	-2,755.40	2,594.21	2,418.03	176.18	14.725		
10,600.00	6,083.00	11,257.03	6,083.00	89.12	101.18	-90.00	4,928.83	-2,755.07	2,594.22	2,414.63	179.58	14.446		
10,700.00	6,083.00	11,357.03	6,083.00	90.85	102.65	-90.00	5,028.83	-2,754.73	2,594.22	2,411.23	182.99	14.177		
10,800.00	6,083.00	11,457.03	6,083.00	92.57	104.14	-90.00	5,128.83	-2,754.40	2,594.23	2,407.82	186.41	13.917		
10,900.00	6,083.00	11,557.03	6,083.00	94.29	105.64	-90.00	5,228.83	-2,754.06	2,594.23	2,404.40	189.83	13.666		
11,000.00	6,083.00	11,657.03	6,083.00	96.02	107.14	-90.00	5,328.82	-2,753.72	2,594.23	2,400.98	193.25	13.424		
11,100.00	6,083.00	11,757.03	6,083.00	97.75	108.66	-90.00	5,428.82	-2,753.39	2,594.24	2,397.56	196.68	13.190		
11,200.00	6,083.00	11,857.03	6,083.00	99.48	110.18	-90.00	5,528.82	-2,753.05	2,594.24	2,394.13	200.11	12.964		
11,300.00	6,083.00	11,957.03	6,083.00	101.21	111.72	-90.00	5,628.82	-2,752.72	2,594.25	2,390.69	203.55	12.745		
11,400.00	6,083.00	12,057.03	6,083.00	102.94	113.26	-90.00	5,728.82	-2,752.38	2,594.25	2,387.26	206.99	12.533		
11,500.00	6,083.00	12,157.03	6,083.00	104.67	114.81	-90.00	5,828.82	-2,752.04	2,594.25	2,383.82	210.44	12.328		
11,600.00	6,083.00	12,257.03	6,083.00	106.41	116.36	-90.00	5,928.82	-2,751.71	2,594.26	2,380.37	213.88	12.129		
11,700.00	6,083.00	12,357.03	6,083.00	108.15	117.93	-90.00	6,028.82	-2,751.37	2,594.26	2,376.93	217.34	11.937		
11,800.00	6,083.00	12,457.03	6,083.00	109.88	119.50	-90.00	6,128.82	-2,751.04	2,594.27	2,373.48	220.79	11.750		
11,900.00	6,083.00	12,557.03	6,083.00	111.62	121.07	-90.00	6,228.82	-2,750.70	2,594.27	2,370.02	224.25	11.569		
12,000.00	6,083.00	12,657.03	6,083.00	113.36	122.66	-90.00	6,328.82	-2,750.36	2,594.27	2,366.57	227.71	11.393		
12,100.00	6,083.00	12,757.03	6,083.00	115.10	124.25	-90.00	6,428.82	-2,750.03	2,594.28	2,363.11	231.17	11.222		
12,200.00	6,083.00	12,857.03	6,083.00	116.85	125.84	-90.00	6,528.82	-2,749.69	2,594.28	2,359.65	234.63	11.057		
12,300.00	6,083.00	12,957.03	6,083.00	118.59	127.44	-90.00	6,628.82	-2,749.36	2,594.29	2,356.19	238.10	10.896		
12,400.00	6,083.00	13,057.03	6,083.00	120.33	129.04	-90.00	6,728.82	-2,749.02	2,594.29	2,352.72	241.57	10.739		
12,408.25	6,083.00	13,065.28	6,083.00	120.48	129.18	-90.00	6,737.07	-2,748.99	2,594.29	2,352.43	241.86	10.727		
12,500.00	6,083.00	13,152.35	6,083.00	122.08	130.58	-90.00	6,824.14	-2,748.70	2,594.30	2,349.26	245.04	10.587		
12,600.00	6,083.00	13,152.35	6,083.00	123.82	130.58	-90.00	6,824.14	-2,748.70	2,596.41	2,348.11	248.30	10.457		
12,700.00	6,083.00	13,152.35	6,083.00	125.57	130.58	-90.00	6,824.14	-2,748.70	2,602.36	2,351.16	251.20	10.360		
12,800.00	6,083.00	13,152.35	6,083.00	127.32	130.58	-90.00	6,824.14	-2,748.70	2,612.14	2,358.38	253.76	10.294		
12,900.00	6,083.00	13,152.35	6,083.00	129.07	130.58	-90.00	6,824.14	-2,748.70	2,625.68	2,369.73	255.95	10.259		
13,000.00	6,083.00	13,152.35	6,083.00	130.81	130.58	-90.00	6,824.14	-2,748.70	2,642.95	2,385.16	257.78	10.253 SF		
13,100.00	6,083.00	13,152.35	6,083.00	132.56	130.58	-90.00	6,824.14	-2,748.70	2,663.86	2,404.59	259.26	10.275		
13,200.00	6,083.00	13,152.35	6,083.00	134.31	130.58	-90.00	6,824.14	-2,748.70	2,688.32	2,427.93	260.40	10.324		
13,300.00	6,083.00	13,152.35	6,083.00	136.06	130.58	-90.00	6,824.14	-2,748.70	2,716.25	2,455.05	261.20	10.399		
13,400.00	6,083.00	13,152.35	6,083.00	137.81	130.58	-90.00	6,824.14	-2,748.70	2,747.54	2,485.86	261.69	10.499		
13,500.00	6,083.00	13,152.35	6,083.00	139.57	130.58	-90.00	6,824.14	-2,748.70	2,782.08	2,520.20	261.88	10.623		
13,600.00	6,083.00	13,152.35	6,083.00	141.32	130.58	-90.00	6,824.14	-2,748.70	2,819.74	2,557.94	261.80	10.771		
13,700.00	6,083.00	13,152.35	6,083.00	143.07	130.58	-90.00	6,824.14	-2,748.70	2,860.40	2,598.93	261.46	10.940		
13,800.00	6,083.00	13,152.35	6,083.00	144.82	130.58	-90.00	6,824.14	-2,748.70	2,903.93	2,643.04	260.90	11.131		
13,900.00	6,083.00	13,152.35	6,083.00	146.58	130.58	-90.00	6,824.14	-2,748.70	2,950.22	2,690.10	260.12	11.342		
14,000.00	6,083.00	13,152.35	6,083.00	148.33	130.58	-90.00	6,824.14	-2,748.70	2,999.12	2,739.96	259.16	11.572		
14,100.00	6,083.00	13,152.35	6,083.00	150.09	130.58	-90.00	6,824.14	-2,748.70	3,050.52	2,792.49	258.03	11.822		
14,200.00	6,083.00	13,152.35	6,083.00	151.84	130.58	-90.00	6,824.14	-2,748.70	3,104.30	2,847.53	256.76	12.090		
14,300.00	6,083.00	13,152.35	6,083.00	153.60	130.58	-90.00	6,824.14	-2,748.70	3,160.32	2,904.95	255.37	12.376		
14,400.00	6,083.00	13,152.35	6,083.00	155.35	130.58	-90.00	6,824.14	-2,748.70	3,218.47	2,964.61	253.87	12.678		
14,500.00	6,083.00	13,152.35	6,083.00	157.11	130.58	-90.00	6,824.14	-2,748.70	3,278.65	3,026.37	252.28	12.996		
14,600.00	6,083.00	13,152.35	6,083.00	158.87	130.58	-90.00	6,824.14	-2,748.70	3,340.73	3,090.12	250.61	13.330		
14,700.00	6,083.00	13,152.35	6,083.00	160.62	130.58	-90.00	6,824.14	-2,748.70	3,404.62	3,155.73	248.89	13.679		
14,800.00	6,083.00	13,152.35	6,083.00	162.38	130.58	-90.00	6,824.14	-2,748.70	3,470.22	3,223.10	247.12	14.043		
14,900.00	6,083.00	13,152.35	6,083.00	164.14	130.58	-90.00	6,824.14	-2,748.70	3,537.42	3,292.11	245.31	14.420		
15,000.00	6,083.00	13,152.35	6,083.00	165.90	130.58	-90.00	6,824.14	-2,748.70	3,606.15	3,362.67	243.48	14.811		
15,100.00	6,083.00	13,152.35	6,083.00	167.66	130.58	-90.00	6,824.14	-2,748.70	3,676.31	3,434.68	241.63	15.215		
15,200.00	6,083.00	13,152.35	6,083.00	169.42	130.58	-90.00	6,824.14	-2,748.70	3,747.83	3,508.05	239.78	15.631		
15,300.00	6,083.00	13,152.35	6,083.00	171.17	130.58	-90.00	6,824.14	-2,748.70	3,820.63	3,582.71	237.92	16.058		
15,400.00	6,083.00	13,152.35	6,083.00	172.93	130.58	-90.00	6,824.14	-2,748.70	3,894.63	3,658.56	236.07	16.498		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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-12-01 - 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	6,083.00	13,152.35	6,083.00	174.69	130.58	-90.00	6,824.14	-2,748.70	3,969.77	3,735.55	234.23	16.949	
15,600.00	6,083.00	13,152.35	6,083.00	176.45	130.58	-90.00	6,824.14	-2,748.70	4,045.99	3,813.59	232.40	17.410	
15,700.00	6,083.00	13,152.35	6,083.00	178.21	130.58	-90.00	6,824.14	-2,748.70	4,123.23	3,892.64	230.59	17.881	
15,800.00	6,083.00	13,152.35	6,083.00	179.98	130.58	-90.00	6,824.14	-2,748.70	4,201.42	3,972.62	228.80	18.363	
15,900.00	6,083.00	13,152.35	6,083.00	181.74	130.58	-90.00	6,824.14	-2,748.70	4,280.53	4,053.49	227.04	18.854	
16,000.00	6,083.00	13,152.35	6,083.00	183.50	130.58	-90.00	6,824.14	-2,748.70	4,360.49	4,135.19	225.30	19.354	
16,013.13	6,083.00	13,152.35	6,083.00	183.73	130.58	-90.00	6,824.14	-2,748.70	4,371.05	4,145.31	225.74	19.363	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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	
0.00	0.00	1.00	1.00	0.00	0.00	0.35	45.90	0.28	45.90				
100.00	100.00	101.38	101.38	0.27	0.15	-0.17	45.48	-0.14	45.48	45.06	0.42	108.628	
200.00	200.00	201.50	201.49	0.63	0.43	-1.50	44.40	-1.17	44.42	43.36	1.06	41.947	
260.20	260.20	261.22	261.20	0.84	0.64	-2.34	43.91	-1.79	43.94	42.46	1.49	29.559 CC	
300.00	300.00	300.44	300.41	0.99	0.78	-3.12	44.14	-2.40	44.21	42.44	1.77	25.003 ES	
400.00	400.00	398.85	398.76	1.34	1.13	-5.41	46.98	-4.45	47.24	44.77	2.47	19.098	
500.00	499.98	496.87	496.53	1.70	1.48	37.42	53.16	-7.51	52.48	49.31	3.17	16.536	
600.00	599.88	595.98	595.15	2.06	1.84	36.08	61.62	-12.53	58.14	54.26	3.88	14.980	
700.00	699.78	695.13	693.52	2.42	2.23	32.78	71.14	-20.35	65.28	60.68	4.60	14.190	
800.00	799.68	796.01	793.28	2.78	2.64	26.00	78.81	-33.08	72.04	66.70	5.34	13.488	
900.00	899.58	895.37	891.00	3.14	3.07	16.16	82.80	-50.57	78.65	72.58	6.07	12.961	
1,000.00	999.48	992.50	985.69	3.50	3.51	5.21	84.95	-72.03	88.62	81.84	6.78	13.074	
1,100.00	1,099.38	1,087.39	1,077.26	3.87	3.99	-5.07	86.01	-96.86	103.65	96.20	7.46	13.901	
1,200.00	1,199.28	1,180.48	1,166.18	4.23	4.50	-13.37	87.05	-124.39	124.24	116.13	8.11	15.324	
1,300.00	1,299.18	1,273.61	1,254.23	4.59	5.06	-19.94	87.77	-154.71	149.38	140.61	8.77	17.031	
1,400.00	1,399.08	1,368.33	1,343.47	4.96	5.66	-24.83	88.51	-186.48	176.87	167.40	9.47	18.683	
1,500.00	1,498.97	1,463.37	1,432.93	5.32	6.29	-28.46	89.16	-218.53	205.42	195.24	10.18	20.185	
1,600.00	1,598.87	1,559.49	1,523.55	5.69	6.92	-30.96	90.85	-250.55	234.37	223.46	10.91	21.485	
1,700.00	1,698.77	1,656.72	1,615.43	6.05	7.57	-32.83	92.84	-282.28	263.03	251.37	11.66	22.563	
1,800.00	1,798.67	1,750.26	1,703.90	6.42	8.20	-34.29	94.65	-312.60	291.65	279.28	12.37	23.584	
1,900.00	1,898.57	1,842.14	1,790.32	6.78	8.83	-35.55	96.23	-343.76	321.87	308.81	13.06	24.641	
2,000.00	1,998.47	1,937.16	1,879.63	7.15	9.50	-36.65	97.83	-376.17	352.42	338.62	13.80	25.539	
2,100.00	2,098.37	2,032.18	1,968.94	7.51	10.17	-37.57	99.44	-408.58	383.07	368.53	14.54	26.348	
2,200.00	2,198.27	2,127.20	2,058.25	7.87	10.85	-38.35	101.05	-440.99	413.79	398.51	15.28	27.080	
2,300.00	2,298.17	2,222.22	2,147.56	8.24	11.52	-39.03	102.65	-473.39	444.57	428.55	16.02	27.745	
2,400.00	2,398.06	2,317.25	2,236.87	8.60	12.20	-39.62	104.26	-505.80	475.41	458.64	16.77	28.351	
2,500.00	2,497.96	2,412.27	2,326.18	8.97	12.88	-40.14	105.87	-538.21	506.28	488.76	17.52	28.905	
2,600.00	2,597.86	2,507.29	2,415.49	9.33	13.56	-40.59	107.47	-570.62	537.18	518.92	18.26	29.414	
2,700.00	2,697.76	2,602.31	2,504.80	9.70	14.24	-41.00	109.08	-603.02	568.12	549.11	19.01	29.882	
2,800.00	2,797.66	2,697.33	2,594.11	10.06	14.93	-41.37	110.69	-635.43	599.07	579.31	19.76	30.315	
2,900.00	2,897.56	2,792.35	2,683.42	10.43	15.61	-41.70	112.29	-667.84	630.05	609.54	20.51	30.716	
3,000.00	2,997.46	2,887.37	2,772.73	10.79	16.30	-42.00	113.90	-700.25	661.05	639.78	21.26	31.088	
3,100.00	3,097.36	2,982.40	2,862.04	11.16	16.98	-42.27	115.51	-732.66	692.05	670.04	22.02	31.435	
3,200.00	3,197.25	3,077.42	2,951.34	11.52	17.67	-42.52	117.11	-765.06	723.08	700.31	22.77	31.758	
3,300.00	3,297.15	3,172.44	3,040.65	11.89	18.36	-42.75	118.72	-797.47	754.11	730.59	23.52	32.061	
3,400.00	3,397.05	3,267.46	3,129.96	12.25	19.04	-42.96	120.33	-829.88	785.15	760.88	24.28	32.344	
3,500.00	3,496.95	3,362.48	3,219.27	12.62	19.73	-43.15	121.93	-862.29	816.21	791.18	25.03	32.610	
3,600.00	3,596.85	3,457.50	3,308.58	12.98	20.42	-43.34	123.54	-894.70	847.27	821.48	25.78	32.860	
3,700.00	3,696.75	3,552.52	3,397.89	13.35	21.11	-43.50	125.15	-927.10	878.33	851.79	26.54	33.096	
3,800.00	3,796.65	3,647.55	3,487.20	13.72	21.80	-43.66	126.75	-959.51	909.41	882.11	27.29	33.318	
3,900.00	3,896.55	3,742.57	3,576.51	14.08	22.49	-43.80	128.36	-991.92	940.49	912.44	28.05	33.529	
4,000.00	3,996.45	3,837.59	3,665.82	14.45	23.18	-43.94	129.97	-1,024.33	971.57	942.76	28.81	33.728	
4,100.00	4,096.34	3,932.61	3,755.13	14.81	23.87	-44.07	131.57	-1,056.74	1,002.66	973.10	29.56	33.916	
4,200.00	4,196.24	4,027.63	3,844.44	15.18	24.56	-44.19	133.18	-1,089.14	1,033.75	1,003.43	30.32	34.095	
4,300.00	4,296.14	4,122.65	3,933.75	15.54	25.25	-44.30	134.79	-1,121.55	1,064.85	1,033.77	31.08	34.265	
4,400.00	4,396.04	4,217.67	4,023.06	15.91	25.94	-44.41	136.40	-1,153.96	1,095.95	1,064.12	31.83	34.427	
4,500.00	4,495.94	4,312.70	4,112.37	16.27	26.63	-44.51	138.00	-1,186.37	1,127.05	1,094.46	32.59	34.581	
4,600.00	4,595.84	4,407.72	4,201.68	16.64	27.32	-44.61	139.61	-1,218.77	1,158.16	1,124.81	33.35	34.728	
4,700.00	4,695.74	4,502.74	4,290.99	17.00	28.01	-44.70	141.22	-1,251.18	1,189.27	1,155.16	34.11	34.868	
4,800.00	4,795.64	4,597.76	4,380.30	17.37	28.70	-44.78	142.82	-1,283.59	1,220.38	1,185.52	34.87	35.002	
4,900.00	4,895.54	4,692.78	4,469.61	17.73	29.39	-44.86	144.43	-1,316.00	1,251.50	1,215.87	35.62	35.131	
5,000.00	4,995.43	4,787.80	4,558.92	18.10	30.09	-44.94	146.04	-1,348.41	1,282.61	1,246.23	36.38	35.253	

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
5,100.00	5,095.33	4,882.82	4,648.23	18.46	30.78	-45.02	147.64	-1,380.81	1,313.73	1,276.59	37.14	35.371		
5,200.00	5,195.23	4,977.85	4,737.54	18.83	31.47	-45.09	149.25	-1,413.22	1,344.85	1,306.95	37.90	35.483		
5,300.00	5,295.13	5,072.87	4,826.85	19.19	32.16	-45.15	150.86	-1,445.63	1,375.98	1,337.32	38.66	35.591		
5,400.00	5,395.03	5,167.89	4,916.16	19.56	32.85	-45.22	152.46	-1,478.04	1,407.10	1,367.68	39.42	35.695		
5,500.00	5,494.93	5,262.91	5,005.47	19.92	33.55	-45.28	154.07	-1,510.45	1,438.23	1,398.05	40.18	35.795		
5,600.00	5,594.56	5,357.74	5,094.59	20.29	34.24	-75.84	155.67	-1,542.79	1,469.31	1,428.36	40.95	35.882		
5,700.00	5,691.64	5,450.40	5,181.68	20.69	34.91	-79.88	157.24	-1,574.39	1,499.96	1,458.21	41.76	35.922		
5,800.00	5,783.21	5,538.08	5,264.09	21.10	35.55	-80.01	158.72	-1,604.29	1,529.95	1,487.34	42.61	35.904		
5,900.00	5,866.49	5,618.12	5,339.32	21.55	36.13	-79.52	160.08	-1,631.59	1,559.47	1,515.94	43.54	35.818		
6,000.00	5,938.95	5,688.09	5,405.09	22.06	36.64	-78.75	161.26	-1,655.46	1,589.02	1,544.46	44.56	35.657		
6,100.00	5,998.39	5,745.85	5,459.38	22.64	37.06	-77.65	162.24	-1,675.16	1,619.15	1,573.44	45.71	35.424		
6,200.00	6,043.00	5,789.67	5,500.56	23.31	37.38	-76.04	162.98	-1,690.10	1,650.28	1,603.32	46.97	35.137		
6,300.00	6,071.42	5,818.20	5,527.37	24.06	37.59	-73.80	163.46	-1,699.83	1,682.59	1,634.27	48.31	34.826		
6,400.00	6,082.79	5,830.57	5,539.01	24.89	37.68	-70.88	163.67	-1,704.05	1,715.82	1,666.12	49.70	34.525		
6,500.00	6,083.00	6,824.85	6,083.00	25.78	43.28	-89.97	825.98	-1,899.24	1,724.45	1,670.44	54.00	31.932		
6,600.00	6,083.00	6,924.85	6,083.00	26.77	43.75	-89.97	925.98	-1,898.90	1,724.45	1,668.57	55.88	30.863		
6,700.00	6,083.00	7,024.85	6,083.00	27.83	44.28	-89.97	1,025.98	-1,898.56	1,724.45	1,666.55	57.90	29.781		
6,800.00	6,083.00	7,124.85	6,083.00	28.96	44.87	-89.97	1,125.98	-1,898.22	1,724.45	1,664.38	60.07	28.706		
6,900.00	6,083.00	7,224.85	6,083.00	30.15	45.51	-89.97	1,225.98	-1,897.89	1,724.45	1,662.09	62.37	27.650		
7,000.00	6,083.00	7,324.85	6,083.00	31.40	46.22	-89.97	1,325.97	-1,897.55	1,724.45	1,659.68	64.78	26.622		
7,100.00	6,083.00	7,424.85	6,083.00	32.70	46.99	-89.97	1,425.97	-1,897.21	1,724.46	1,657.17	67.29	25.629		
7,200.00	6,083.00	7,524.85	6,083.00	34.04	47.81	-89.97	1,525.97	-1,896.87	1,724.46	1,654.57	69.88	24.676		
7,300.00	6,083.00	7,624.85	6,083.00	35.42	48.68	-89.97	1,625.97	-1,896.53	1,724.46	1,651.89	72.56	23.765		
7,400.00	6,083.00	7,724.85	6,083.00	36.83	49.61	-89.97	1,725.97	-1,896.19	1,724.46	1,649.15	75.31	22.897		
7,500.00	6,083.00	7,824.85	6,083.00	38.27	50.58	-89.97	1,825.97	-1,895.85	1,724.46	1,646.33	78.13	22.072		
7,600.00	6,083.00	7,924.85	6,083.00	39.74	51.61	-89.97	1,925.97	-1,895.51	1,724.46	1,643.46	81.00	21.289		
7,700.00	6,083.00	8,024.85	6,083.00	41.23	52.67	-89.97	2,025.97	-1,895.18	1,724.46	1,640.54	83.93	20.548		
7,800.00	6,083.00	8,124.85	6,083.00	42.75	53.78	-89.97	2,125.97	-1,894.84	1,724.46	1,637.57	86.90	19.845		
7,900.00	6,083.00	8,224.85	6,083.00	44.28	54.93	-89.97	2,225.97	-1,894.50	1,724.47	1,634.56	89.91	19.180		
8,000.00	6,083.00	8,324.85	6,083.00	45.83	56.12	-89.97	2,325.97	-1,894.16	1,724.47	1,631.51	92.96	18.551		
8,100.00	6,083.00	8,424.85	6,083.00	47.40	57.34	-89.97	2,425.97	-1,893.82	1,724.47	1,628.43	96.04	17.955		
8,200.00	6,083.00	8,524.85	6,083.00	48.98	58.59	-89.97	2,525.97	-1,893.48	1,724.47	1,625.31	99.16	17.391		
8,300.00	6,083.00	8,624.85	6,083.00	50.57	59.88	-89.97	2,625.97	-1,893.14	1,724.47	1,622.17	102.30	16.857		
8,400.00	6,083.00	8,724.85	6,083.00	52.18	61.19	-89.97	2,725.97	-1,892.80	1,724.47	1,619.00	105.47	16.351		
8,500.00	6,083.00	8,824.85	6,083.00	53.79	62.53	-89.97	2,825.97	-1,892.47	1,724.47	1,615.81	108.66	15.870		
8,600.00	6,083.00	8,924.85	6,083.00	55.42	63.89	-89.97	2,925.97	-1,892.13	1,724.47	1,612.60	111.87	15.414		
8,700.00	6,083.00	9,024.85	6,083.00	57.05	65.27	-89.97	3,025.97	-1,891.79	1,724.48	1,609.37	115.11	14.982		
8,800.00	6,083.00	9,124.85	6,083.00	58.70	66.67	-89.97	3,125.96	-1,891.45	1,724.48	1,606.12	118.36	14.570		
8,900.00	6,083.00	9,224.85	6,083.00	60.35	68.10	-89.97	3,225.96	-1,891.11	1,724.48	1,602.85	121.63	14.179		
9,000.00	6,083.00	9,324.85	6,083.00	62.00	69.54	-89.97	3,325.96	-1,890.77	1,724.48	1,599.57	124.91	13.806		
9,100.00	6,083.00	9,424.85	6,083.00	63.66	70.99	-89.97	3,425.96	-1,890.43	1,724.48	1,596.28	128.21	13.451		
9,200.00	6,083.00	9,524.85	6,083.00	65.33	72.47	-89.97	3,525.96	-1,890.09	1,724.48	1,592.97	131.52	13.112		
9,300.00	6,083.00	9,624.85	6,083.00	67.01	73.96	-89.97	3,625.96	-1,889.76	1,724.48	1,589.65	134.84	12.789		
9,400.00	6,083.00	9,724.85	6,083.00	68.69	75.46	-89.97	3,725.96	-1,889.42	1,724.48	1,586.31	138.17	12.481		
9,500.00	6,083.00	9,824.85	6,083.00	70.37	76.97	-89.97	3,825.96	-1,889.08	1,724.49	1,582.97	141.51	12.186		
9,600.00	6,083.00	9,924.85	6,083.00	72.06	78.50	-89.97	3,925.96	-1,888.74	1,724.49	1,579.62	144.87	11.904		
9,700.00	6,083.00	10,024.85	6,083.00	73.75	80.04	-89.97	4,025.96	-1,888.40	1,724.49	1,576.26	148.23	11.634		
9,800.00	6,083.00	10,124.85	6,083.00	75.45	81.58	-89.97	4,125.96	-1,888.06	1,724.49	1,572.89	151.60	11.375		
9,900.00	6,083.00	10,224.85	6,083.00	77.15	83.14	-89.97	4,225.96	-1,887.72	1,724.49	1,569.51	154.98	11.127		
10,000.00	6,083.00	10,324.85	6,083.00	78.85	84.71	-89.97	4,325.96	-1,887.39	1,724.49	1,566.13	158.37	10.889		
10,100.00	6,083.00	10,424.85	6,083.00	80.56	86.28	-89.97	4,425.96	-1,887.05	1,724.49	1,562.73	161.76	10.661		
10,200.00	6,083.00	10,524.85	6,083.00	82.26	87.87	-89.97	4,525.96	-1,886.71	1,724.49	1,559.34	165.16	10.441		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,300.00	6,083.00	10,624.85	6,083.00	83.98	89.46	-89.97	4,625.96	-1,886.37	1,724.50	1,555.93	168.56	10.231		
10,400.00	6,083.00	10,724.85	6,083.00	85.69	91.06	-89.97	4,725.96	-1,886.03	1,724.50	1,552.52	171.98	10.028		
10,500.00	6,083.00	10,824.85	6,083.00	87.41	92.66	-89.97	4,825.95	-1,885.69	1,724.50	1,549.11	175.39	9.832		
10,600.00	6,083.00	10,924.85	6,083.00	89.12	94.27	-89.97	4,925.95	-1,885.35	1,724.50	1,545.68	178.81	9.644		
10,700.00	6,083.00	11,024.85	6,083.00	90.85	95.89	-89.97	5,025.95	-1,885.01	1,724.50	1,542.26	182.24	9.463		
10,800.00	6,083.00	11,124.85	6,083.00	92.57	97.51	-89.97	5,125.95	-1,884.68	1,724.50	1,538.83	185.67	9.288		
10,900.00	6,083.00	11,224.85	6,083.00	94.29	99.14	-89.97	5,225.95	-1,884.34	1,724.50	1,535.39	189.11	9.119		
11,000.00	6,083.00	11,324.85	6,083.00	96.02	100.78	-89.97	5,325.95	-1,884.00	1,724.50	1,531.96	192.55	8.956		
11,100.00	6,083.00	11,424.85	6,083.00	97.75	102.42	-89.97	5,425.95	-1,883.66	1,724.50	1,528.51	195.99	8.799		
11,200.00	6,083.00	11,524.85	6,083.00	99.48	104.06	-89.97	5,525.95	-1,883.32	1,724.51	1,525.07	199.44	8.647		
11,300.00	6,083.00	11,624.85	6,083.00	101.21	105.71	-89.97	5,625.95	-1,882.98	1,724.51	1,521.62	202.89	8.500		
11,400.00	6,083.00	11,724.85	6,083.00	102.94	107.36	-89.97	5,725.95	-1,882.64	1,724.51	1,518.17	206.34	8.358		
11,500.00	6,083.00	11,824.85	6,083.00	104.67	109.02	-89.97	5,825.95	-1,882.30	1,724.51	1,514.71	209.80	8.220		
11,600.00	6,083.00	11,924.85	6,083.00	106.41	110.68	-89.97	5,925.95	-1,881.97	1,724.51	1,511.25	213.26	8.086		
11,700.00	6,083.00	12,024.85	6,083.00	108.15	112.34	-89.97	6,025.95	-1,881.63	1,724.51	1,507.79	216.72	7.957		
11,800.00	6,083.00	12,124.85	6,083.00	109.88	114.01	-89.97	6,125.95	-1,881.29	1,724.51	1,504.33	220.19	7.832		
11,900.00	6,083.00	12,224.85	6,083.00	111.62	115.68	-89.97	6,225.95	-1,880.95	1,724.51	1,500.86	223.66	7.711		
12,000.00	6,083.00	12,324.85	6,083.00	113.36	117.35	-89.97	6,325.95	-1,880.61	1,724.52	1,497.39	227.13	7.593		
12,100.00	6,083.00	12,424.85	6,083.00	115.10	119.03	-89.97	6,425.95	-1,880.27	1,724.52	1,493.92	230.60	7.478		
12,200.00	6,083.00	12,524.85	6,083.00	116.85	120.71	-89.97	6,525.95	-1,879.93	1,724.52	1,490.44	234.07	7.367		
12,300.00	6,083.00	12,624.85	6,083.00	118.59	122.39	-89.97	6,625.94	-1,879.59	1,724.52	1,486.97	237.55	7.260		
12,400.00	6,083.00	12,724.85	6,083.00	120.33	124.08	-89.97	6,725.94	-1,879.26	1,724.52	1,483.49	241.03	7.155		
12,500.00	6,083.00	12,824.85	6,083.00	122.08	125.76	-89.97	6,825.94	-1,878.92	1,724.52	1,480.01	244.51	7.053		
12,600.00	6,083.00	12,924.85	6,083.00	123.82	127.45	-89.97	6,925.94	-1,878.58	1,724.52	1,476.53	248.00	6.954		
12,700.00	6,083.00	13,024.85	6,083.00	125.57	129.15	-89.97	7,025.94	-1,878.24	1,724.52	1,473.04	251.48	6.857		
12,800.00	6,083.00	13,124.85	6,083.00	127.32	130.84	-89.97	7,125.94	-1,877.90	1,724.53	1,469.56	254.97	6.764		
12,900.00	6,083.00	13,224.85	6,083.00	129.07	132.54	-89.97	7,225.94	-1,877.56	1,724.53	1,466.07	258.46	6.672		
13,000.00	6,083.00	13,324.85	6,083.00	130.81	134.24	-89.97	7,325.94	-1,877.22	1,724.53	1,462.58	261.95	6.584		
13,100.00	6,083.00	13,424.85	6,083.00	132.56	135.94	-89.97	7,425.94	-1,876.88	1,724.53	1,459.09	265.44	6.497		
13,200.00	6,083.00	13,524.85	6,083.00	134.31	137.64	-89.97	7,525.94	-1,876.55	1,724.53	1,455.60	268.93	6.413		
13,300.00	6,083.00	13,624.85	6,083.00	136.06	139.35	-89.97	7,625.94	-1,876.21	1,724.53	1,452.11	272.42	6.330		
13,400.00	6,083.00	13,724.85	6,083.00	137.81	141.05	-89.97	7,725.94	-1,875.87	1,724.53	1,448.61	275.92	6.250		
13,500.00	6,083.00	13,824.85	6,083.00	139.57	142.76	-89.97	7,825.94	-1,875.53	1,724.53	1,445.12	279.42	6.172		
13,600.00	6,083.00	13,924.85	6,083.00	141.32	144.47	-89.97	7,925.94	-1,875.19	1,724.54	1,441.62	282.92	6.096		
13,700.00	6,083.00	14,024.85	6,083.00	143.07	146.18	-89.97	8,025.94	-1,874.85	1,724.54	1,438.12	286.42	6.021		
13,800.00	6,083.00	14,124.85	6,083.00	144.82	147.89	-89.97	8,125.94	-1,874.51	1,724.54	1,434.62	289.92	5.948		
13,900.00	6,083.00	14,224.85	6,083.00	146.58	149.61	-89.97	8,225.94	-1,874.18	1,724.54	1,431.12	293.42	5.877		
14,000.00	6,083.00	14,324.85	6,083.00	148.33	151.32	-89.97	8,325.93	-1,873.84	1,724.54	1,427.62	296.92	5.808		
14,100.00	6,083.00	14,424.85	6,083.00	150.09	153.04	-89.97	8,425.93	-1,873.50	1,724.54	1,424.12	300.42	5.740		
14,200.00	6,083.00	14,524.85	6,083.00	151.84	154.76	-89.97	8,525.93	-1,873.16	1,724.54	1,420.61	303.93	5.674		
14,300.00	6,083.00	14,624.85	6,083.00	153.60	156.48	-89.97	8,625.93	-1,872.82	1,724.54	1,417.11	307.44	5.609		
14,400.00	6,083.00	14,724.85	6,083.00	155.35	158.20	-89.97	8,725.93	-1,872.48	1,724.55	1,413.60	310.94	5.546		
14,500.00	6,083.00	14,824.85	6,083.00	157.11	159.92	-89.97	8,825.93	-1,872.14	1,724.55	1,410.10	314.45	5.484		
14,600.00	6,083.00	14,924.85	6,083.00	158.87	161.64	-89.97	8,925.93	-1,871.80	1,724.55	1,406.59	317.96	5.424		
14,700.00	6,083.00	15,024.85	6,083.00	160.62	163.37	-89.97	9,025.93	-1,871.47	1,724.55	1,403.08	321.47	5.365		
14,800.00	6,083.00	15,124.85	6,083.00	162.38	165.09	-89.97	9,125.93	-1,871.13	1,724.55	1,399.57	324.98	5.307		
14,900.00	6,083.00	15,224.85	6,083.00	164.14	166.82	-89.97	9,225.93	-1,870.79	1,724.55	1,396.06	328.49	5.250		
15,000.00	6,083.00	15,324.85	6,083.00	165.90	168.55	-89.97	9,325.93	-1,870.45	1,724.55	1,392.55	332.00	5.194		
15,100.00	6,083.00	15,424.85	6,083.00	167.66	170.27	-89.97	9,425.93	-1,870.11	1,724.55	1,389.04	335.51	5.140		
15,200.00	6,083.00	15,524.85	6,083.00	169.42	172.00	-89.97	9,525.93	-1,869.77	1,724.55	1,385.53	339.03	5.087		
15,300.00	6,083.00	15,624.85	6,083.00	171.17	173.73	-89.97	9,625.93	-1,869.43	1,724.56	1,382.01	342.54	5.035		
15,400.00	6,083.00	15,724.85	6,083.00	172.93	175.47	-89.97	9,725.93	-1,869.09	1,724.56	1,378.50	346.06	4.983		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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 2												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 138-MWD OWSG, 1665-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	6,083.00	15,824.85	6,083.00	174.69	177.20	-89.97	9,825.93	-1,868.76	1,724.56	1,374.99	349.57	4.933	
15,600.00	6,083.00	15,924.85	6,083.00	176.45	178.93	-89.97	9,925.93	-1,868.42	1,724.56	1,371.47	353.09	4.884	
15,700.00	6,083.00	16,024.85	6,083.00	178.21	180.66	-89.97	10,025.93	-1,868.08	1,724.56	1,367.96	356.61	4.836	
15,800.00	6,083.00	16,124.85	6,083.00	179.98	182.40	-89.97	10,125.92	-1,867.74	1,724.56	1,364.44	360.12	4.789	
15,900.00	6,083.00	16,224.85	6,083.00	181.74	184.13	-89.97	10,225.92	-1,867.40	1,724.56	1,360.92	363.64	4.742	
15,908.83	6,083.00	16,233.68	6,083.00	181.89	184.29	-89.97	10,234.76	-1,867.37	1,724.56	1,360.61	363.95	4.738	
16,000.00	6,083.00	16,318.96	6,083.00	183.50	185.77	-89.97	10,320.03	-1,867.08	1,724.57	1,357.42	367.16	4.697	
16,013.13	6,083.00	16,318.96	6,083.00	183.73	185.77	-89.97	10,320.03	-1,867.08	1,724.67	1,357.07	367.60	4.692 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.10	0.10	0.00	0.00	0.51	31.33	0.28	31.33					
100.00	100.00	100.20	100.20	0.27	0.15	0.03	31.17	0.02	31.17	30.75	0.42	74.939		
200.00	200.00	200.18	200.18	0.63	0.43	-1.36	30.80	-0.73	30.81	29.75	1.05	29.207		
300.00	300.00	300.26	300.25	0.99	0.78	-2.82	30.47	-1.50	30.51	28.74	1.77	17.244		
400.00	400.00	400.46	400.44	1.34	1.14	-3.74	29.62	-1.94	29.69	27.21	2.48	11.953		
500.00	499.98	499.83	499.79	1.70	1.50	38.84	29.27	-3.96	28.16	24.96	3.19	8.815		
590.16	590.07	589.26	589.12	2.02	1.81	35.50	30.96	-7.95	27.53	23.69	3.83	7.181		
600.00	599.88	599.07	598.90	2.06	1.85	35.42	31.26	-8.51	27.26	23.36	3.90	6.984	CC, ES	
700.00	699.78	698.50	698.06	2.42	2.21	29.17	35.04	-14.87	28.53	23.91	4.61	6.181		
800.00	799.68	797.64	796.65	2.78	2.57	20.60	40.43	-23.60	32.54	27.22	5.33	6.109		
900.00	899.58	896.70	894.79	3.14	2.96	9.87	46.15	-35.80	39.32	33.28	6.04	6.513		
1,000.00	999.48	995.03	991.72	3.50	3.37	-1.51	50.88	-51.63	49.04	42.31	6.74	7.281		
1,100.00	1,099.38	1,092.75	1,087.64	3.87	3.80	-9.64	56.22	-69.50	62.23	54.80	7.43	8.377		
1,200.00	1,199.28	1,191.72	1,184.57	4.23	4.25	-15.63	61.32	-88.83	77.16	69.02	8.15	9.473		
1,300.00	1,299.18	1,290.90	1,281.69	4.59	4.71	-20.92	64.40	-108.66	92.21	83.35	8.87	10.397		
1,400.00	1,399.08	1,391.04	1,379.99	4.96	5.17	-25.86	64.97	-127.76	106.09	96.48	9.61	11.044		
1,500.00	1,498.97	1,487.77	1,474.75	5.32	5.63	-28.89	67.11	-147.03	121.80	111.50	10.31	11.820		
1,600.00	1,598.87	1,587.43	1,572.52	5.69	6.10	-30.65	70.68	-166.03	137.28	126.24	11.04	12.432		
1,700.00	1,698.77	1,685.52	1,668.71	6.05	6.57	-31.44	75.76	-184.52	153.04	141.28	11.76	13.009		
1,800.00	1,798.67	1,782.17	1,763.41	6.42	7.03	-31.99	81.08	-203.11	169.28	156.81	12.47	13.574		
1,900.00	1,898.57	1,876.06	1,854.97	6.78	7.51	-33.00	84.93	-223.49	187.65	174.51	13.15	14.272		
2,000.00	1,998.47	1,970.00	1,946.03	7.15	8.01	-34.39	87.31	-246.44	208.46	194.63	13.83	15.074		
2,100.00	2,098.37	2,067.49	2,040.35	7.51	8.54	-35.72	89.31	-271.07	230.12	215.56	14.56	15.804		
2,200.00	2,198.27	2,164.99	2,134.66	7.87	9.07	-36.82	91.32	-295.70	251.88	236.59	15.29	16.469		
2,300.00	2,298.17	2,262.49	2,228.98	8.24	9.61	-37.75	93.33	-320.32	273.72	257.69	16.03	17.076		
2,400.00	2,398.06	2,359.99	2,323.29	8.60	10.15	-38.54	95.33	-344.95	295.61	278.84	16.77	17.632		
2,500.00	2,497.96	2,457.49	2,417.61	8.97	10.70	-39.22	97.34	-369.58	317.55	300.05	17.50	18.143		
2,600.00	2,597.86	2,554.99	2,511.93	9.33	11.24	-39.82	99.34	-394.20	339.53	321.28	18.24	18.614		
2,700.00	2,697.76	2,652.49	2,606.24	9.70	11.79	-40.34	101.35	-418.83	361.53	342.55	18.98	19.048		
2,800.00	2,797.66	2,749.98	2,700.56	10.06	12.34	-40.80	103.35	-443.45	383.57	363.85	19.72	19.451		
2,900.00	2,897.56	2,847.48	2,794.87	10.43	12.89	-41.21	105.36	-468.08	405.62	385.16	20.46	19.825		
3,000.00	2,997.46	2,944.98	2,889.19	10.79	13.44	-41.58	107.37	-492.71	427.69	406.49	21.20	20.173		
3,100.00	3,097.36	3,042.48	2,983.51	11.16	13.99	-41.91	109.37	-517.33	449.78	427.83	21.94	20.498		
3,200.00	3,197.25	3,139.98	3,077.82	11.52	14.54	-42.21	111.38	-541.96	471.88	449.19	22.68	20.802		
3,300.00	3,297.15	3,237.48	3,172.14	11.89	15.09	-42.49	113.38	-566.59	493.99	470.56	23.43	21.087		
3,400.00	3,397.05	3,334.98	3,266.45	12.25	15.65	-42.74	115.39	-591.21	516.11	491.94	24.17	21.354		
3,500.00	3,496.95	3,432.48	3,360.77	12.62	16.20	-42.97	117.39	-615.84	538.24	513.33	24.91	21.605		
3,600.00	3,596.85	3,529.97	3,455.09	12.98	16.76	-43.18	119.40	-640.47	560.38	534.72	25.66	21.842		
3,700.00	3,696.75	3,627.47	3,549.40	13.35	17.31	-43.38	121.41	-665.09	582.52	556.12	26.40	22.066		
3,800.00	3,796.65	3,724.97	3,643.72	13.72	17.87	-43.56	123.41	-689.72	604.67	577.53	27.14	22.277		
3,900.00	3,896.55	3,822.47	3,738.03	14.08	18.42	-43.73	125.42	-714.35	626.83	598.94	27.89	22.477		
4,000.00	3,996.45	3,919.97	3,832.35	14.45	18.98	-43.89	127.42	-738.97	648.99	620.35	28.63	22.666		
4,100.00	4,096.34	4,017.47	3,926.67	14.81	19.54	-44.04	129.43	-763.60	671.15	641.77	29.38	22.846		
4,200.00	4,196.24	4,114.97	4,020.98	15.18	20.10	-44.17	131.43	-788.22	693.32	663.20	30.12	23.017		
4,300.00	4,296.14	4,212.47	4,115.30	15.54	20.65	-44.30	133.44	-812.85	715.49	684.62	30.87	23.180		
4,400.00	4,396.04	4,309.96	4,209.61	15.91	21.21	-44.42	135.44	-837.48	737.67	706.05	31.61	23.335		
4,500.00	4,495.94	4,407.46	4,303.93	16.27	21.77	-44.54	137.45	-862.10	759.85	727.49	32.36	23.483		
4,600.00	4,595.84	4,504.96	4,398.25	16.64	22.33	-44.65	139.46	-886.73	782.03	748.92	33.10	23.624		
4,700.00	4,695.74	4,602.46	4,492.56	17.00	22.89	-44.75	141.46	-911.36	804.21	770.36	33.85	23.759		
4,800.00	4,795.64	4,699.96	4,586.88	17.37	23.45	-44.84	143.47	-935.98	826.40	791.80	34.60	23.888		
4,900.00	4,895.54	4,797.46	4,681.19	17.73	24.01	-44.94	145.47	-960.61	848.58	813.24	35.34	24.011		
5,000.00	4,995.43	4,894.96	4,775.51	18.10	24.57	-45.02	147.48	-985.24	870.77	834.69	36.09	24.130		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)					
5,100.00	5,095.33	4,992.45	4,869.83	18.46	25.13	-45.10	149.48	-1,009.86	892.97	856.13	36.83	24.243				
5,200.00	5,195.23	5,089.95	4,964.14	18.83	25.68	-45.18	151.49	-1,034.49	915.16	877.58	37.58	24.352				
5,300.00	5,295.13	5,187.45	5,058.46	19.19	26.24	-45.26	153.50	-1,059.12	937.35	899.03	38.33	24.457				
5,400.00	5,395.03	5,284.95	5,152.77	19.56	26.80	-45.33	155.50	-1,083.74	959.55	920.48	39.07	24.557				
5,500.00	5,494.93	5,382.45	5,247.09	19.92	27.36	-45.40	157.51	-1,108.37	981.75	941.93	39.82	24.654				
5,600.00	5,594.56	5,479.76	5,341.22	20.29	27.92	-76.68	159.51	-1,132.95	1,003.93	963.35	40.58	24.740				
5,700.00	5,691.64	5,574.91	5,433.27	20.69	28.47	-82.03	161.47	-1,156.98	1,025.98	984.59	41.38	24.792				
5,800.00	5,783.21	5,665.01	5,520.42	21.10	28.99	-83.58	163.32	-1,179.74	1,048.22	1,005.98	42.25	24.811				
5,900.00	5,866.49	5,764.32	5,616.14	21.55	29.56	-84.80	170.87	-1,204.71	1,071.11	1,027.78	43.33	24.718				
6,000.00	5,938.95	5,879.64	5,723.81	22.06	30.22	-85.93	200.46	-1,232.73	1,093.57	1,048.91	44.67	24.482				
6,100.00	5,998.39	6,012.78	5,838.06	22.64	30.95	-87.13	261.43	-1,262.36	1,114.41	1,068.24	46.18	24.134				
6,200.00	6,043.00	6,168.51	5,950.19	23.31	31.76	-88.40	364.84	-1,291.30	1,132.03	1,084.27	47.76	23.704				
6,300.00	6,071.42	6,348.71	6,040.88	24.06	32.67	-89.49	517.95	-1,314.47	1,144.41	1,095.09	49.32	23.203				
6,400.00	6,082.79	6,547.11	6,082.41	24.89	33.71	-89.99	710.67	-1,324.66	1,149.56	1,098.67	50.89	22.589				
6,500.00	6,083.00	6,660.48	6,083.00	25.78	34.35	-90.00	824.04	-1,324.43	1,149.63	1,096.99	52.64	21.840				
6,600.00	6,083.00	6,760.48	6,083.00	26.77	35.00	-90.00	924.03	-1,324.09	1,149.63	1,095.07	54.56	21.071				
6,700.00	6,083.00	6,860.48	6,083.00	27.83	35.73	-90.00	1,024.03	-1,323.75	1,149.63	1,093.00	56.64	20.298				
6,800.00	6,083.00	6,960.48	6,083.00	28.96	36.54	-90.00	1,124.03	-1,323.41	1,149.64	1,090.78	58.86	19.532				
6,900.00	6,083.00	7,060.48	6,083.00	30.15	37.42	-90.00	1,224.03	-1,323.07	1,149.64	1,088.43	61.20	18.784				
7,000.00	6,083.00	7,160.48	6,083.00	31.40	38.36	-90.00	1,324.03	-1,322.73	1,149.64	1,085.98	63.66	18.059				
7,100.00	6,083.00	7,260.48	6,083.00	32.70	39.37	-90.00	1,424.03	-1,322.39	1,149.64	1,083.42	66.21	17.362				
7,200.00	6,083.00	7,360.48	6,083.00	34.04	40.44	-90.00	1,524.03	-1,322.05	1,149.64	1,080.78	68.86	16.696				
7,300.00	6,083.00	7,460.48	6,083.00	35.42	41.56	-90.00	1,624.03	-1,321.72	1,149.64	1,078.06	71.58	16.061				
7,400.00	6,083.00	7,560.48	6,083.00	36.83	42.72	-90.00	1,724.03	-1,321.38	1,149.64	1,075.27	74.37	15.458				
7,500.00	6,083.00	7,660.48	6,083.00	38.27	43.94	-90.00	1,824.03	-1,321.04	1,149.64	1,072.42	77.22	14.887				
7,600.00	6,083.00	7,760.48	6,083.00	39.74	45.19	-90.00	1,924.03	-1,320.70	1,149.64	1,069.51	80.13	14.347				
7,700.00	6,083.00	7,860.48	6,083.00	41.23	46.48	-90.00	2,024.03	-1,320.36	1,149.64	1,066.55	83.09	13.836				
7,800.00	6,083.00	7,960.48	6,083.00	42.75	47.80	-90.00	2,124.03	-1,320.02	1,149.64	1,063.55	86.09	13.353				
7,900.00	6,083.00	8,060.48	6,083.00	44.28	49.16	-90.00	2,224.03	-1,319.68	1,149.64	1,060.51	89.14	12.898				
8,000.00	6,083.00	8,160.48	6,083.00	45.83	50.54	-90.00	2,324.03	-1,319.34	1,149.65	1,057.43	92.22	12.467				
8,100.00	6,083.00	8,260.48	6,083.00	47.40	51.95	-90.00	2,424.03	-1,319.00	1,149.65	1,054.32	95.33	12.060				
8,200.00	6,083.00	8,360.48	6,083.00	48.98	53.38	-90.00	2,524.03	-1,318.66	1,149.65	1,051.18	98.47	11.675				
8,300.00	6,083.00	8,460.48	6,083.00	50.57	54.83	-90.00	2,624.03	-1,318.32	1,149.65	1,048.01	101.64	11.311				
8,400.00	6,083.00	8,560.48	6,083.00	52.18	56.30	-90.00	2,724.02	-1,317.98	1,149.65	1,044.82	104.83	10.967				
8,500.00	6,083.00	8,660.48	6,083.00	53.79	57.79	-90.00	2,824.02	-1,317.65	1,149.65	1,041.61	108.04	10.641				
8,600.00	6,083.00	8,760.48	6,083.00	55.42	59.29	-90.00	2,924.02	-1,317.31	1,149.65	1,038.37	111.28	10.331				
8,700.00	6,083.00	8,860.48	6,083.00	57.05	60.81	-90.00	3,024.02	-1,316.97	1,149.65	1,035.12	114.53	10.038				
8,800.00	6,083.00	8,960.48	6,083.00	58.70	62.35	-90.00	3,124.02	-1,316.63	1,149.65	1,031.85	117.80	9.759				
8,900.00	6,083.00	9,060.48	6,083.00	60.35	63.90	-90.00	3,224.02	-1,316.29	1,149.65	1,028.57	121.09	9.494				
9,000.00	6,083.00	9,160.48	6,083.00	62.00	65.46	-90.00	3,324.02	-1,315.95	1,149.65	1,025.27	124.39	9.243				
9,100.00	6,083.00	9,260.48	6,083.00	63.66	67.03	-90.00	3,424.02	-1,315.61	1,149.65	1,021.95	127.70	9.003				
9,200.00	6,083.00	9,360.48	6,083.00	65.33	68.61	-90.00	3,524.02	-1,315.27	1,149.65	1,018.63	131.03	8.774				
9,300.00	6,083.00	9,460.48	6,083.00	67.01	70.20	-90.00	3,624.02	-1,314.93	1,149.66	1,015.29	134.36	8.556				
9,400.00	6,083.00	9,560.48	6,083.00	68.69	71.80	-90.00	3,724.02	-1,314.59	1,149.66	1,011.95	137.71	8.348				
9,500.00	6,083.00	9,660.48	6,083.00	70.37	73.40	-90.00	3,824.02	-1,314.25	1,149.66	1,008.59	141.07	8.150				
9,600.00	6,083.00	9,760.48	6,083.00	72.06	75.02	-90.00	3,924.02	-1,313.92	1,149.66	1,005.22	144.43	7.960				
9,700.00	6,083.00	9,860.48	6,083.00	73.75	76.64	-90.00	4,024.02	-1,313.58	1,149.66	1,001.85	147.81	7.778				
9,800.00	6,083.00	9,960.48	6,083.00	75.45	78.27	-90.00	4,124.02	-1,313.24	1,149.66	998.47	151.19	7.604				
9,900.00	6,083.00	10,060.48	6,083.00	77.15	79.90	-90.00	4,224.02	-1,312.90	1,149.66	995.08	154.58	7.437				
10,000.00	6,083.00	10,160.48	6,083.00	78.85	81.55	-90.00	4,324.02	-1,312.56	1,149.66	991.68	157.98	7.277				
10,100.00	6,083.00	10,260.48	6,083.00	80.56	83.19	-90.00	4,424.01	-1,312.22	1,149.66	988.28	161.38	7.124				
10,200.00	6,083.00	10,360.48	6,083.00	82.26	84.85	-90.00	4,524.01	-1,311.88	1,149.66	984.87	164.79	6.976				

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,300.00	6,083.00	10,460.48	6,083.00	83.98	86.50	-90.00	4,624.01	-1,311.54	1,149.66	981.46	168.21	6.835		
10,400.00	6,083.00	10,560.48	6,083.00	85.69	88.16	-90.00	4,724.01	-1,311.20	1,149.66	978.04	171.63	6.699		
10,500.00	6,083.00	10,660.48	6,083.00	87.41	89.83	-90.00	4,824.01	-1,310.86	1,149.67	974.61	175.06	6.567		
10,600.00	6,083.00	10,760.48	6,083.00	89.12	91.50	-90.00	4,924.01	-1,310.52	1,149.67	971.18	178.49	6.441		
10,700.00	6,083.00	10,860.48	6,083.00	90.85	93.17	-90.00	5,024.01	-1,310.18	1,149.67	967.75	181.92	6.320		
10,800.00	6,083.00	10,960.48	6,083.00	92.57	94.85	-90.00	5,124.01	-1,309.85	1,149.67	964.31	185.36	6.202		
10,900.00	6,083.00	11,060.48	6,083.00	94.29	96.53	-90.00	5,224.01	-1,309.51	1,149.67	960.87	188.80	6.089		
11,000.00	6,083.00	11,160.48	6,083.00	96.02	98.22	-90.00	5,324.01	-1,309.17	1,149.67	957.42	192.25	5.980		
11,100.00	6,083.00	11,260.48	6,083.00	97.75	99.90	-90.00	5,424.01	-1,308.83	1,149.67	953.97	195.70	5.875		
11,200.00	6,083.00	11,360.48	6,083.00	99.48	101.60	-90.00	5,524.01	-1,308.49	1,149.67	950.52	199.16	5.773		
11,300.00	6,083.00	11,460.48	6,083.00	101.21	103.29	-90.00	5,624.01	-1,308.15	1,149.67	947.06	202.61	5.674		
11,400.00	6,083.00	11,560.48	6,083.00	102.94	104.98	-90.00	5,724.01	-1,307.81	1,149.67	943.60	206.07	5.579		
11,500.00	6,083.00	11,660.48	6,083.00	104.67	106.68	-90.00	5,824.01	-1,307.47	1,149.67	940.14	209.54	5.487		
11,600.00	6,083.00	11,760.48	6,083.00	106.41	108.38	-90.00	5,924.01	-1,307.13	1,149.67	936.67	213.00	5.397		
11,700.00	6,083.00	11,860.48	6,083.00	108.15	110.09	-90.00	6,024.01	-1,306.79	1,149.68	933.20	216.47	5.311		
11,800.00	6,083.00	11,960.48	6,083.00	109.88	111.79	-90.00	6,124.01	-1,306.45	1,149.68	929.73	219.94	5.227		
11,900.00	6,083.00	12,060.48	6,083.00	111.62	113.50	-90.00	6,224.00	-1,306.12	1,149.68	926.26	223.42	5.146		
12,000.00	6,083.00	12,160.48	6,083.00	113.36	115.21	-90.00	6,324.00	-1,305.78	1,149.68	922.78	226.89	5.067		
12,100.00	6,083.00	12,260.48	6,083.00	115.10	116.92	-90.00	6,424.00	-1,305.44	1,149.68	919.31	230.37	4.991		
12,200.00	6,083.00	12,360.48	6,083.00	116.85	118.64	-90.00	6,524.00	-1,305.10	1,149.68	915.83	233.85	4.916		
12,300.00	6,083.00	12,460.48	6,083.00	118.59	120.35	-90.00	6,624.00	-1,304.76	1,149.68	912.35	237.33	4.844		
12,400.00	6,083.00	12,560.48	6,083.00	120.33	122.07	-90.00	6,724.00	-1,304.42	1,149.68	908.86	240.82	4.774		
12,500.00	6,083.00	12,660.48	6,083.00	122.08	123.79	-90.00	6,824.00	-1,304.08	1,149.68	905.38	244.30	4.706		
12,600.00	6,083.00	12,760.48	6,083.00	123.82	125.51	-90.00	6,924.00	-1,303.74	1,149.68	901.89	247.79	4.640		
12,700.00	6,083.00	12,860.48	6,083.00	125.57	127.23	-90.00	7,024.00	-1,303.40	1,149.68	898.40	251.28	4.575		
12,800.00	6,083.00	12,960.48	6,083.00	127.32	128.95	-90.00	7,124.00	-1,303.06	1,149.68	894.91	254.77	4.513		
12,900.00	6,083.00	13,060.48	6,083.00	129.07	130.68	-90.00	7,224.00	-1,302.72	1,149.68	891.42	258.26	4.452		
13,000.00	6,083.00	13,160.48	6,083.00	130.81	132.40	-90.00	7,324.00	-1,302.38	1,149.69	887.93	261.76	4.392		
13,100.00	6,083.00	13,260.48	6,083.00	132.56	134.13	-90.00	7,424.00	-1,302.05	1,149.69	884.43	265.25	4.334		
13,200.00	6,083.00	13,360.48	6,083.00	134.31	135.86	-90.00	7,524.00	-1,301.71	1,149.69	880.94	268.75	4.278		
13,300.00	6,083.00	13,460.48	6,083.00	136.06	137.59	-90.00	7,624.00	-1,301.37	1,149.69	877.44	272.25	4.223		
13,400.00	6,083.00	13,560.48	6,083.00	137.81	139.32	-90.00	7,724.00	-1,301.03	1,149.69	873.94	275.75	4.169		
13,500.00	6,083.00	13,660.48	6,083.00	139.57	141.05	-90.00	7,824.00	-1,300.69	1,149.69	870.44	279.25	4.117		
13,600.00	6,083.00	13,760.48	6,083.00	141.32	142.78	-90.00	7,923.99	-1,300.35	1,149.69	866.94	282.75	4.066		
13,700.00	6,083.00	13,860.48	6,083.00	143.07	144.52	-90.00	8,023.99	-1,300.01	1,149.69	863.44	286.25	4.016		
13,800.00	6,083.00	13,960.48	6,083.00	144.82	146.25	-90.00	8,123.99	-1,299.67	1,149.69	859.93	289.76	3.968		
13,900.00	6,083.00	14,060.48	6,083.00	146.58	147.99	-90.00	8,223.99	-1,299.33	1,149.69	856.43	293.26	3.920		
14,000.00	6,083.00	14,160.48	6,083.00	148.33	149.72	-90.00	8,323.99	-1,298.99	1,149.69	852.92	296.77	3.874		
14,100.00	6,083.00	14,260.48	6,083.00	150.09	151.46	-90.00	8,423.99	-1,298.65	1,149.69	849.42	300.28	3.829		
14,200.00	6,083.00	14,360.48	6,083.00	151.84	153.20	-90.00	8,523.99	-1,298.32	1,149.70	845.91	303.78	3.785		
14,300.00	6,083.00	14,460.48	6,083.00	153.60	154.94	-90.00	8,623.99	-1,297.98	1,149.70	842.40	307.29	3.741		
14,400.00	6,083.00	14,560.48	6,083.00	155.35	156.68	-90.00	8,723.99	-1,297.64	1,149.70	838.89	310.80	3.699		
14,500.00	6,083.00	14,660.48	6,083.00	157.11	158.42	-90.00	8,823.99	-1,297.30	1,149.70	835.38	314.31	3.658		
14,600.00	6,083.00	14,760.48	6,083.00	158.87	160.16	-90.00	8,923.99	-1,296.96	1,149.70	831.87	317.83	3.617		
14,700.00	6,083.00	14,860.48	6,083.00	160.62	161.90	-90.00	9,023.99	-1,296.62	1,149.70	828.36	321.34	3.578		
14,800.00	6,083.00	14,960.48	6,083.00	162.38	163.64	-90.00	9,123.99	-1,296.28	1,149.70	824.85	324.85	3.539		
14,900.00	6,083.00	15,060.48	6,083.00	164.14	165.39	-90.00	9,223.99	-1,295.94	1,149.70	821.34	328.36	3.501		
15,000.00	6,083.00	15,160.48	6,083.00	165.90	167.13	-90.00	9,323.99	-1,295.60	1,149.70	817.82	331.88	3.464		
15,100.00	6,083.00	15,260.48	6,083.00	167.66	168.88	-90.00	9,423.99	-1,295.26	1,149.70	814.31	335.39	3.428		
15,200.00	6,083.00	15,360.48	6,083.00	169.42	170.62	-90.00	9,523.99	-1,294.92	1,149.70	810.79	338.91	3.392		
15,300.00	6,083.00	15,460.48	6,083.00	171.17	172.37	-90.00	9,623.98	-1,294.58	1,149.70	807.28	342.43	3.358		
15,400.00	6,083.00	15,560.48	6,083.00	172.93	174.11	-90.00	9,723.98	-1,294.25	1,149.71	803.76	345.94	3.323		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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-20-03 - OWB - PROPOSAL 2												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 137-MWD OWSG, 1672-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	6,083.00	15,660.48	6,083.00	174.69	175.86	-90.00	9,823.98	-1,293.91	1,149.71	800.24	349.46	3.290	
15,600.00	6,083.00	15,760.48	6,083.00	176.45	177.61	-90.00	9,923.98	-1,293.57	1,149.71	796.73	352.98	3.257	
15,700.00	6,083.00	15,860.48	6,083.00	178.21	179.36	-90.00	10,023.98	-1,293.23	1,149.71	793.21	356.50	3.225	
15,800.00	6,083.00	15,960.48	6,083.00	179.98	181.10	-90.00	10,123.98	-1,292.89	1,149.71	789.69	360.02	3.193	
15,900.00	6,083.00	16,060.48	6,083.00	181.74	182.85	-90.00	10,223.98	-1,292.55	1,149.71	786.17	363.54	3.163	
16,000.00	6,083.00	16,160.48	6,083.00	183.50	184.60	-90.00	10,323.98	-1,292.21	1,149.71	782.65	367.06	3.132	
16,013.13	6,083.00	16,161.74	6,083.00	183.73	184.65	-90.00	10,325.23	-1,292.21	1,149.77	782.26	367.51	3.129 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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				
0.00	0.00	0.00	0.00	0.00	0.00	1.04	15.30	0.28	15.30							
100.00	100.00	100.09	100.09	0.27	0.15	1.78	14.99	0.47	14.99	14.58	0.42	35.851				
200.00	200.00	200.12	200.12	0.63	0.41	3.12	14.17	0.77	14.20	13.16	1.03	13.728				
300.00	300.00	300.13	300.12	0.99	0.76	0.85	13.39	0.20	13.39	11.64	1.75	7.665				
400.00	400.00	400.26	400.24	1.34	1.12	-0.31	12.07	-0.07	12.07	9.61	2.46	4.899				
500.00	499.98	500.09	500.06	1.70	1.48	51.87	10.40	-0.03	9.23	6.05	3.18	2.905				
600.00	599.88	599.88	599.85	2.06	1.82	77.81	10.54	-0.19	7.41	3.53	3.88	1.910				
700.00	699.78	699.91	699.84	2.42	2.16	93.64	12.20	-2.04	7.10	2.52	4.58	1.552				
800.00	799.68	799.93	799.74	2.78	2.51	91.90	15.05	-5.91	6.31	1.03	5.28	1.195 Level 2				
885.95	885.54	885.84	885.50	3.09	2.81	81.41	18.29	-9.68	5.95	0.05	5.90	1.009 Level 2, CC				
900.00	899.58	899.88	899.52	3.14	2.86	79.16	18.89	-10.31	5.96	-0.04	6.00	0.994 Level 1, ES, SF				
1,000.00	999.48	999.78	999.19	3.50	3.21	59.75	23.85	-15.02	6.90	0.19	6.71	1.029 Level 2				
1,100.00	1,099.38	1,099.78	1,098.89	3.87	3.57	45.73	29.80	-19.77	9.39	1.97	7.42	1.265 Level 3				
1,200.00	1,199.28	1,199.74	1,198.66	4.23	3.93	44.89	35.03	-23.04	11.42	3.28	8.14	1.402 Level 3				
1,300.00	1,299.18	1,300.03	1,298.75	4.59	4.30	36.33	39.00	-28.01	12.29	3.43	8.86	1.387 Level 3				
1,307.71	1,306.88	1,307.73	1,306.43	4.62	4.33	35.35	39.21	-28.46	12.28	3.37	8.91	1.378 Level 3				
1,400.00	1,399.08	1,399.88	1,398.37	4.96	4.67	24.49	42.14	-33.81	12.87	3.30	9.57	1.345 Level 3				
1,500.00	1,498.97	1,499.72	1,497.84	5.32	5.04	8.87	45.81	-41.54	15.45	5.19	10.26	1.506				
1,600.00	1,598.87	1,600.36	1,598.27	5.69	5.41	1.28	48.79	-47.27	16.89	5.90	10.98	1.537				
1,700.00	1,698.77	1,700.64	1,698.52	6.05	5.77	-2.24	49.54	-49.32	14.36	2.66	11.70	1.227 Level 2				
1,784.74	1,783.43	1,785.01	1,782.84	6.36	6.07	-9.03	50.23	-52.09	13.14	0.84	12.30	1.068 Level 2				
1,800.00	1,798.67	1,800.00	1,797.81	6.42	6.12	-10.85	50.40	-52.84	13.19	0.78	12.41	1.063 Level 2				
1,900.00	1,898.57	1,899.64	1,897.20	6.78	6.49	-24.14	51.83	-59.78	15.75	2.63	13.12	1.201 Level 2				
2,000.00	1,998.47	1,998.73	1,995.72	7.15	6.87	-33.72	53.83	-70.06	22.37	8.55	13.81	1.619				
2,100.00	2,098.37	2,097.22	2,093.24	7.51	7.26	-38.53	56.39	-83.59	32.76	18.27	14.50	2.260				
2,200.00	2,198.27	2,195.95	2,190.60	7.87	7.66	-40.73	59.38	-99.72	45.90	30.70	15.20	3.020				
2,300.00	2,298.17	2,295.05	2,288.29	8.24	8.07	-41.94	62.42	-116.09	59.26	43.34	15.92	3.721				
2,400.00	2,398.06	2,394.14	2,385.98	8.60	8.49	-42.70	65.45	-132.45	72.64	55.99	16.65	4.363				
2,500.00	2,497.96	2,493.24	2,483.67	8.97	8.91	-43.23	68.49	-148.82	86.02	68.65	17.37	4.951				
2,600.00	2,597.86	2,592.34	2,581.36	9.33	9.33	-43.61	71.52	-165.18	99.41	81.31	18.10	5.492				
2,700.00	2,697.76	2,691.44	2,679.05	9.70	9.76	-43.90	74.56	-181.55	112.80	93.98	18.83	5.992				
2,800.00	2,797.66	2,790.53	2,776.74	10.06	10.19	-44.13	77.59	-197.92	126.20	106.64	19.55	6.454				
2,900.00	2,897.56	2,889.63	2,874.43	10.43	10.62	-44.32	80.63	-214.28	139.59	119.31	20.28	6.883				
3,000.00	2,997.46	2,988.73	2,972.12	10.79	11.05	-44.48	83.66	-230.65	152.99	131.98	21.01	7.282				
3,100.00	3,097.36	3,087.83	3,069.81	11.16	11.48	-44.60	86.70	-247.01	166.39	144.65	21.74	7.654				
3,200.00	3,197.25	3,186.92	3,167.50	11.52	11.92	-44.71	89.73	-263.38	179.79	157.32	22.47	8.002				
3,300.00	3,297.15	3,286.02	3,265.19	11.89	12.36	-44.81	92.77	-279.74	193.19	169.99	23.20	8.328				
3,400.00	3,397.05	3,385.12	3,362.88	12.25	12.80	-44.89	95.81	-296.11	206.59	182.66	23.93	8.634				
3,500.00	3,496.95	3,484.22	3,460.56	12.62	13.24	-44.96	98.84	-312.47	219.99	195.33	24.66	8.922				
3,600.00	3,596.85	3,583.32	3,558.25	12.98	13.68	-45.03	101.88	-328.84	233.39	208.00	25.39	9.193				
3,700.00	3,696.75	3,682.41	3,655.94	13.35	14.12	-45.08	104.91	-345.20	246.79	220.67	26.12	9.449				
3,800.00	3,796.65	3,781.51	3,753.63	13.72	14.57	-45.13	107.95	-361.57	260.19	233.34	26.85	9.690				
3,900.00	3,896.55	3,880.61	3,851.32	14.08	15.01	-45.18	110.98	-377.93	273.59	246.01	27.58	9.919				
4,000.00	3,996.45	3,979.71	3,949.01	14.45	15.46	-45.22	114.02	-394.30	286.99	258.68	28.31	10.136				
4,100.00	4,096.34	4,078.80	4,046.70	14.81	15.90	-45.26	117.05	-410.67	300.40	271.35	29.05	10.342				
4,200.00	4,196.24	4,177.90	4,144.39	15.18	16.35	-45.30	120.09	-427.03	313.80	284.02	29.78	10.538				
4,300.00	4,296.14	4,277.00	4,242.08	15.54	16.80	-45.33	123.12	-443.40	327.20	296.69	30.51	10.724				
4,400.00	4,396.04	4,376.10	4,339.77	15.91	17.24	-45.36	126.16	-459.76	340.60	309.36	31.24	10.902				
4,500.00	4,495.94	4,475.19	4,437.46	16.27	17.69	-45.38	129.19	-476.13	354.00	322.03	31.97	11.071				
4,600.00	4,595.84	4,574.29	4,535.15	16.64	18.14	-45.41	132.23	-492.49	367.41	334.70	32.71	11.233				
4,700.00	4,695.74	4,673.39	4,632.84	17.00	18.59	-45.43	135.26	-508.86	380.81	347.37	33.44	11.388				
4,800.00	4,795.64	4,772.49	4,730.53	17.37	19.04	-45.46	138.30	-525.22	394.21	360.04	34.17	11.536				

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
4,900.00	4,895.54	4,871.59	4,828.22	17.73	19.49	-45.48	141.33	-541.59	407.61	372.71	34.91	11.677		
5,000.00	4,995.43	4,970.68	4,925.91	18.10	19.94	-45.49	144.37	-557.95	421.02	385.38	35.64	11.813		
5,100.00	5,095.33	5,069.78	5,023.60	18.46	20.39	-45.51	147.40	-574.32	434.42	398.05	36.37	11.943		
5,200.00	5,195.23	5,168.88	5,121.29	18.83	20.84	-45.53	150.44	-590.69	447.82	410.71	37.11	12.068		
5,300.00	5,295.13	5,267.98	5,218.98	19.19	21.29	-45.55	153.48	-607.05	461.22	423.38	37.84	12.189		
5,400.00	5,395.03	5,367.07	5,316.67	19.56	21.74	-45.56	156.51	-623.42	474.63	436.05	38.57	12.304		
5,500.00	5,494.93	5,466.17	5,414.36	19.92	22.19	-45.57	159.55	-639.78	488.03	448.72	39.31	12.415		
5,600.00	5,594.56	5,565.12	5,511.90	20.29	22.64	-77.64	162.58	-656.12	501.44	461.38	40.06	12.518		
5,700.00	5,691.64	5,665.37	5,610.35	20.69	23.10	-84.43	170.79	-672.60	514.93	474.04	40.89	12.592		
5,800.00	5,783.21	5,769.01	5,709.14	21.10	23.59	-86.73	196.93	-689.07	528.13	486.29	41.84	12.623		
5,900.00	5,866.49	5,875.95	5,804.48	21.55	24.09	-87.97	242.32	-704.90	540.54	497.66	42.89	12.604		
6,000.00	5,938.95	5,986.25	5,892.37	22.06	24.62	-88.78	307.08	-719.41	551.69	507.66	44.04	12.528		
6,100.00	5,998.39	6,099.77	5,968.34	22.64	25.18	-89.34	390.25	-731.86	561.09	515.80	45.29	12.389		
6,200.00	6,043.00	6,216.10	6,027.90	23.31	25.82	-89.71	489.48	-741.51	568.29	521.62	46.67	12.178		
6,300.00	6,071.42	6,334.55	6,067.00	24.06	26.56	-89.93	600.90	-747.68	572.94	524.78	48.16	11.896		
6,400.00	6,082.79	6,454.20	6,082.75	24.89	27.40	-90.00	719.27	-749.92	574.79	525.01	49.77	11.548		
6,500.00	6,083.00	6,557.02	6,083.00	25.78	28.21	-90.00	822.09	-749.62	574.82	523.25	51.57	11.147		
6,600.00	6,083.00	6,657.02	6,083.00	26.77	29.09	-90.00	922.09	-749.28	574.82	521.28	53.54	10.737		
6,700.00	6,083.00	6,757.02	6,083.00	27.83	30.05	-90.00	1,022.09	-748.94	574.82	519.15	55.66	10.327		
6,800.00	6,083.00	6,857.02	6,083.00	28.96	31.09	-90.00	1,122.09	-748.60	574.82	516.89	57.93	9.923		
6,900.00	6,083.00	6,957.02	6,083.00	30.15	32.19	-90.00	1,222.09	-748.26	574.82	514.50	60.32	9.530		
7,000.00	6,083.00	7,057.02	6,083.00	31.40	33.36	-90.00	1,322.09	-747.92	574.82	512.00	62.82	9.151		
7,100.00	6,083.00	7,157.02	6,083.00	32.70	34.58	-90.00	1,422.08	-747.58	574.82	509.41	65.41	8.788		
7,200.00	6,083.00	7,257.02	6,083.00	34.04	35.84	-90.00	1,522.08	-747.24	574.82	506.73	68.09	8.442		
7,300.00	6,083.00	7,357.02	6,083.00	35.42	37.15	-90.00	1,622.08	-746.90	574.82	503.97	70.85	8.113		
7,400.00	6,083.00	7,457.02	6,083.00	36.83	38.50	-90.00	1,722.08	-746.56	574.82	501.14	73.68	7.802		
7,500.00	6,083.00	7,557.02	6,083.00	38.27	39.88	-90.00	1,822.08	-746.22	574.82	498.26	76.56	7.508		
7,600.00	6,083.00	7,657.02	6,083.00	39.74	41.29	-90.00	1,922.08	-745.88	574.82	495.32	79.50	7.230		
7,700.00	6,083.00	7,757.02	6,083.00	41.23	42.73	-90.00	2,022.08	-745.54	574.82	492.33	82.49	6.969		
7,800.00	6,083.00	7,857.02	6,083.00	42.75	44.20	-90.00	2,122.08	-745.20	574.82	489.30	85.52	6.722		
7,900.00	6,083.00	7,957.02	6,083.00	44.28	45.68	-90.00	2,222.08	-744.86	574.82	486.24	88.59	6.489		
8,000.00	6,083.00	8,057.02	6,083.00	45.83	47.19	-90.00	2,322.08	-744.52	574.82	483.13	91.69	6.269		
8,100.00	6,083.00	8,157.02	6,083.00	47.40	48.71	-90.00	2,422.08	-744.18	574.82	480.00	94.82	6.062		
8,200.00	6,083.00	8,257.02	6,083.00	48.98	50.25	-90.00	2,522.08	-743.84	574.82	476.84	97.99	5.866		
8,300.00	6,083.00	8,357.02	6,083.00	50.57	51.81	-90.00	2,622.08	-743.50	574.82	473.65	101.17	5.682		
8,400.00	6,083.00	8,457.02	6,083.00	52.18	53.38	-90.00	2,722.08	-743.16	574.82	470.44	104.39	5.507		
8,500.00	6,083.00	8,557.02	6,083.00	53.79	54.96	-90.00	2,822.08	-742.82	574.82	467.21	107.62	5.341		
8,600.00	6,083.00	8,657.02	6,083.00	55.42	56.55	-90.00	2,922.08	-742.48	574.82	463.96	110.87	5.185		
8,700.00	6,083.00	8,757.02	6,083.00	57.05	58.16	-90.00	3,022.08	-742.15	574.83	460.69	114.14	5.036		
8,800.00	6,083.00	8,857.02	6,083.00	58.70	59.77	-90.00	3,122.08	-741.81	574.83	457.40	117.42	4.895		
8,900.00	6,083.00	8,957.02	6,083.00	60.35	61.39	-90.00	3,222.07	-741.47	574.83	454.10	120.72	4.761		
9,000.00	6,083.00	9,057.02	6,083.00	62.00	63.02	-90.00	3,322.07	-741.13	574.83	450.79	124.04	4.634		
9,100.00	6,083.00	9,157.02	6,083.00	63.66	64.66	-90.00	3,422.07	-740.79	574.83	447.46	127.36	4.513		
9,200.00	6,083.00	9,257.02	6,083.00	65.33	66.31	-90.00	3,522.07	-740.45	574.83	444.12	130.70	4.398		
9,300.00	6,083.00	9,357.02	6,083.00	67.01	67.96	-90.00	3,622.07	-740.11	574.83	440.78	134.05	4.288		
9,400.00	6,083.00	9,457.02	6,083.00	68.69	69.62	-90.00	3,722.07	-739.77	574.83	437.42	137.41	4.183		
9,500.00	6,083.00	9,557.02	6,083.00	70.37	71.28	-90.00	3,822.07	-739.43	574.83	434.05	140.78	4.083		
9,600.00	6,083.00	9,657.02	6,083.00	72.06	72.95	-90.00	3,922.07	-739.09	574.83	430.67	144.16	3.988		
9,700.00	6,083.00	9,757.02	6,083.00	73.75	74.62	-90.00	4,022.07	-738.75	574.83	427.29	147.54	3.896		
9,800.00	6,083.00	9,857.02	6,083.00	75.45	76.30	-90.00	4,122.07	-738.41	574.83	423.90	150.93	3.809		
9,900.00	6,083.00	9,957.02	6,083.00	77.15	77.98	-90.00	4,222.07	-738.07	574.83	420.50	154.33	3.725		
10,000.00	6,083.00	10,057.02	6,083.00	78.85	79.67	-90.00	4,322.07	-737.73	574.83	417.09	157.74	3.644		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,100.00	6,083.00	10,157.02	6,083.00	80.56	81.36	-90.00	4,422.07	-737.39	574.83	413.68	161.15	3.567		
10,200.00	6,083.00	10,257.02	6,083.00	82.26	83.05	-90.00	4,522.07	-737.05	574.83	410.26	164.57	3.493		
10,300.00	6,083.00	10,357.02	6,083.00	83.98	84.75	-90.00	4,622.07	-736.71	574.83	406.84	167.99	3.422		
10,400.00	6,083.00	10,457.02	6,083.00	85.69	86.45	-90.00	4,722.07	-736.37	574.83	403.41	171.42	3.353		
10,500.00	6,083.00	10,557.02	6,083.00	87.41	88.15	-90.00	4,822.07	-736.03	574.83	399.98	174.85	3.288		
10,600.00	6,083.00	10,657.02	6,083.00	89.12	89.86	-90.00	4,922.06	-735.69	574.83	396.54	178.29	3.224		
10,700.00	6,083.00	10,757.02	6,083.00	90.85	91.56	-90.00	5,022.06	-735.35	574.83	393.10	181.73	3.163		
10,800.00	6,083.00	10,857.02	6,083.00	92.57	93.27	-90.00	5,122.06	-735.02	574.83	389.66	185.18	3.104		
10,900.00	6,083.00	10,957.02	6,083.00	94.29	94.99	-90.00	5,222.06	-734.68	574.83	386.21	188.63	3.047		
11,000.00	6,083.00	11,057.02	6,083.00	96.02	96.70	-90.00	5,322.06	-734.34	574.83	382.75	192.08	2.993		
11,100.00	6,083.00	11,157.02	6,083.00	97.75	98.42	-90.00	5,422.06	-734.00	574.84	379.30	195.54	2.940		
11,200.00	6,083.00	11,257.02	6,083.00	99.48	100.14	-90.00	5,522.06	-733.66	574.84	375.84	199.00	2.889		
11,300.00	6,083.00	11,357.02	6,083.00	101.21	101.86	-90.00	5,622.06	-733.32	574.84	372.38	202.46	2.839		
11,400.00	6,083.00	11,457.02	6,083.00	102.94	103.58	-90.00	5,722.06	-732.98	574.84	368.91	205.92	2.791		
11,500.00	6,083.00	11,557.02	6,083.00	104.67	105.31	-90.00	5,822.06	-732.64	574.84	365.44	209.39	2.745		
11,600.00	6,083.00	11,657.02	6,083.00	106.41	107.03	-90.00	5,922.06	-732.30	574.84	361.97	212.86	2.700		
11,700.00	6,083.00	11,757.02	6,083.00	108.15	108.76	-90.00	6,022.06	-731.96	574.84	358.50	216.34	2.657		
11,800.00	6,083.00	11,857.02	6,083.00	109.88	110.49	-90.00	6,122.06	-731.62	574.84	355.03	219.81	2.615		
11,900.00	6,083.00	11,957.02	6,083.00	111.62	112.22	-90.00	6,222.06	-731.28	574.84	351.55	223.29	2.574		
12,000.00	6,083.00	12,057.02	6,083.00	113.36	113.95	-90.00	6,322.06	-730.94	574.84	348.07	226.77	2.535		
12,100.00	6,083.00	12,157.02	6,083.00	115.10	115.68	-90.00	6,422.06	-730.60	574.84	344.59	230.25	2.497		
12,200.00	6,083.00	12,257.02	6,083.00	116.85	117.42	-90.00	6,522.06	-730.26	574.84	341.10	233.74	2.459		
12,300.00	6,083.00	12,357.02	6,083.00	118.59	119.15	-90.00	6,622.06	-729.92	574.84	337.62	237.22	2.423		
12,400.00	6,083.00	12,457.02	6,083.00	120.33	120.89	-90.00	6,722.05	-729.58	574.84	334.13	240.71	2.388		
12,500.00	6,083.00	12,557.02	6,083.00	122.08	122.63	-90.00	6,822.05	-729.24	574.84	330.64	244.20	2.354		
12,600.00	6,083.00	12,657.02	6,083.00	123.82	124.37	-90.00	6,922.05	-728.90	574.84	327.15	247.69	2.321		
12,700.00	6,083.00	12,757.02	6,083.00	125.57	126.11	-90.00	7,022.05	-728.56	574.84	323.66	251.19	2.289		
12,800.00	6,083.00	12,857.02	6,083.00	127.32	127.85	-90.00	7,122.05	-728.22	574.84	320.16	254.68	2.257		
12,900.00	6,083.00	12,957.02	6,083.00	129.07	129.59	-90.00	7,222.05	-727.88	574.84	316.67	258.18	2.227		
13,000.00	6,083.00	13,057.02	6,083.00	130.81	131.33	-90.00	7,322.05	-727.55	574.84	313.17	261.67	2.197		
13,100.00	6,083.00	13,157.02	6,083.00	132.56	133.07	-90.00	7,422.05	-727.21	574.84	309.67	265.17	2.168		
13,200.00	6,083.00	13,257.02	6,083.00	134.31	134.82	-90.00	7,522.05	-726.87	574.84	306.17	268.67	2.140		
13,300.00	6,083.00	13,357.02	6,083.00	136.06	136.56	-90.00	7,622.05	-726.53	574.84	302.67	272.17	2.112		
13,400.00	6,083.00	13,457.02	6,083.00	137.81	138.31	-90.00	7,722.05	-726.19	574.84	299.17	275.68	2.085		
13,500.00	6,083.00	13,557.02	6,083.00	139.57	140.05	-90.00	7,822.05	-725.85	574.84	295.67	279.18	2.059		
13,600.00	6,083.00	13,657.02	6,083.00	141.32	141.80	-90.00	7,922.05	-725.51	574.85	292.16	282.68	2.034		
13,700.00	6,083.00	13,757.02	6,083.00	143.07	143.55	-90.00	8,022.05	-725.17	574.85	288.66	286.19	2.009		
13,800.00	6,083.00	13,857.02	6,083.00	144.82	145.30	-90.00	8,122.05	-724.83	574.85	285.15	289.70	1.984		
13,900.00	6,083.00	13,957.02	6,083.00	146.58	147.05	-90.00	8,222.05	-724.49	574.85	281.64	293.20	1.961		
14,000.00	6,083.00	14,057.02	6,083.00	148.33	148.80	-90.00	8,322.05	-724.15	574.85	278.13	296.71	1.937		
14,100.00	6,083.00	14,157.02	6,083.00	150.09	150.55	-90.00	8,422.04	-723.81	574.85	274.63	300.22	1.915		
14,200.00	6,083.00	14,257.02	6,083.00	151.84	152.30	-90.00	8,522.04	-723.47	574.85	271.12	303.73	1.893		
14,300.00	6,083.00	14,357.02	6,083.00	153.60	154.05	-90.00	8,622.04	-723.13	574.85	267.60	307.24	1.871		
14,400.00	6,083.00	14,457.02	6,083.00	155.35	155.80	-90.00	8,722.04	-722.79	574.85	264.09	310.76	1.850		
14,500.00	6,083.00	14,557.02	6,083.00	157.11	157.55	-90.00	8,822.04	-722.45	574.85	260.58	314.27	1.829		
14,600.00	6,083.00	14,657.02	6,083.00	158.87	159.30	-90.00	8,922.04	-722.11	574.85	257.07	317.78	1.809		
14,700.00	6,083.00	14,757.02	6,083.00	160.62	161.06	-90.00	9,022.04	-721.77	574.85	253.55	321.30	1.789		
14,800.00	6,083.00	14,857.02	6,083.00	162.38	162.81	-90.00	9,122.04	-721.43	574.85	250.04	324.81	1.770		
14,900.00	6,083.00	14,957.02	6,083.00	164.14	164.56	-90.00	9,222.04	-721.09	574.85	246.52	328.33	1.751		
15,000.00	6,083.00	15,057.02	6,083.00	165.90	166.32	-90.00	9,322.04	-720.75	574.85	243.01	331.84	1.732		
15,100.00	6,083.00	15,157.02	6,083.00	167.66	168.07	-90.00	9,422.04	-720.41	574.85	239.49	335.36	1.714		
15,200.00	6,083.00	15,257.02	6,083.00	169.42	169.83	-90.00	9,522.04	-720.08	574.85	235.97	338.88	1.696		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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-20-04 - OWB - PROPOSAL 2												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 147-MWD OWSG, 1635-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	6,083.00	15,357.02	6,083.00	171.17	171.58	-90.00	9,622.04	-719.74	574.85	232.45	342.40	1.679	
15,400.00	6,083.00	15,457.02	6,083.00	172.93	173.34	-90.00	9,722.04	-719.40	574.85	228.94	345.92	1.662	
15,500.00	6,083.00	15,557.02	6,083.00	174.69	175.10	-90.00	9,822.04	-719.06	574.85	225.42	349.44	1.645	
15,600.00	6,083.00	15,657.02	6,083.00	176.45	176.85	-90.00	9,922.04	-718.72	574.85	221.90	352.96	1.629	
15,700.00	6,083.00	15,757.02	6,083.00	178.21	178.61	-90.00	10,022.04	-718.38	574.85	218.38	356.48	1.613	
15,800.00	6,083.00	15,857.02	6,083.00	179.98	180.37	-90.00	10,122.03	-718.04	574.85	214.86	360.00	1.597	
15,900.00	6,083.00	15,957.02	6,083.00	181.74	182.12	-90.00	10,222.03	-717.70	574.85	211.33	363.52	1.581	
16,000.00	6,083.00	16,057.02	6,083.00	183.50	183.88	-90.00	10,322.03	-717.36	574.85	207.81	367.04	1.566	
16,000.59	6,083.00	16,057.61	6,083.00	183.51	183.89	-90.00	10,322.62	-717.36	574.85	207.79	367.06	1.566	
16,013.13	6,083.00	16,063.34	6,083.00	183.73	183.99	-90.00	10,328.35	-717.34	574.90	207.38	367.51	1.564	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-14.95	0.00	14.95					
100.00	100.00	100.00	100.00	0.27	0.27	-180.00	-14.95	0.00	14.95	14.41	0.54	27.794		
200.00	200.00	200.00	200.00	0.63	0.63	-180.00	-14.95	0.00	14.95	13.69	1.25	11.912		
300.00	300.00	300.19	300.17	0.99	0.98	173.67	-14.17	1.57	14.26	12.29	1.97	7.240		
394.50	394.50	394.65	394.50	1.32	1.32	153.75	-12.02	5.93	13.40	10.76	2.65	5.066 CC		
400.00	400.00	400.14	399.97	1.34	1.34	152.13	-11.85	6.27	13.41	10.72	2.69	4.994 ES		
500.00	499.98	499.78	499.33	1.70	1.71	168.71	-8.50	13.06	17.30	13.90	3.41	5.081		
600.00	599.88	599.28	598.54	2.06	2.08	155.76	-5.13	19.90	25.99	21.87	4.12	6.304		
700.00	699.78	698.78	697.75	2.42	2.45	149.57	-1.75	26.74	35.46	30.62	4.84	7.331		
800.00	799.68	798.28	796.95	2.78	2.82	146.01	1.62	33.58	45.16	39.61	5.55	8.134		
900.00	899.58	897.78	896.15	3.14	3.20	143.72	5.00	40.42	54.98	48.71	6.27	8.769		
1,000.00	999.48	997.27	995.36	3.50	3.57	142.12	8.38	47.27	64.86	57.87	6.99	9.281		
1,100.00	1,099.38	1,096.77	1,094.56	3.87	3.95	140.94	11.75	54.11	74.77	67.06	7.71	9.701		
1,200.00	1,199.28	1,196.27	1,193.77	4.23	4.33	140.05	15.13	60.95	84.70	76.28	8.43	10.052		
1,300.00	1,299.18	1,295.77	1,292.97	4.59	4.70	139.33	18.50	67.79	94.66	85.51	9.15	10.348		
1,400.00	1,399.08	1,395.26	1,392.18	4.96	5.08	138.76	21.88	74.63	104.62	94.75	9.87	10.602		
1,500.00	1,498.97	1,494.76	1,491.38	5.32	5.45	138.28	25.25	81.47	114.59	104.00	10.59	10.822		
1,600.00	1,598.87	1,594.26	1,590.59	5.69	5.83	137.89	28.63	88.32	124.57	113.26	11.31	11.014		
1,700.00	1,698.77	1,693.76	1,689.79	6.05	6.21	137.55	32.00	95.16	134.56	122.53	12.03	11.183		
1,800.00	1,798.67	1,793.25	1,788.99	6.42	6.59	137.25	35.38	102.00	144.55	131.79	12.75	11.333		
1,900.00	1,898.57	1,892.75	1,888.20	6.78	6.96	137.00	38.76	108.84	154.54	141.06	13.48	11.468		
2,000.00	1,998.47	1,992.25	1,987.40	7.15	7.34	136.77	42.13	115.68	164.53	150.33	14.20	11.588		
2,100.00	2,098.37	2,091.75	2,086.61	7.51	7.72	136.57	45.51	122.52	174.53	159.61	14.92	11.697		
2,200.00	2,198.27	2,191.24	2,185.81	7.87	8.09	136.40	48.88	129.37	184.53	168.89	15.64	11.797		
2,300.00	2,298.17	2,290.74	2,285.02	8.24	8.47	136.24	52.26	136.21	194.53	178.16	16.36	11.887		
2,400.00	2,398.06	2,390.24	2,384.22	8.60	8.85	136.10	55.63	143.05	204.53	187.44	17.09	11.970		
2,500.00	2,497.96	2,489.73	2,483.43	8.97	9.23	135.97	59.01	149.89	214.53	196.72	17.81	12.046		
2,600.00	2,597.86	2,589.23	2,582.63	9.33	9.60	135.85	62.39	156.73	224.54	206.00	18.53	12.116		
2,700.00	2,697.76	2,688.73	2,681.83	9.70	9.98	135.74	65.76	163.57	234.54	215.29	19.25	12.181		
2,800.00	2,797.66	2,788.23	2,781.04	10.06	10.36	135.64	69.14	170.42	244.55	224.57	19.98	12.241		
2,900.00	2,897.56	2,887.72	2,880.24	10.43	10.73	135.55	72.51	177.26	254.55	233.85	20.70	12.297		
3,000.00	2,997.46	2,987.22	2,979.45	10.79	11.11	135.46	75.89	184.10	264.56	243.14	21.42	12.349		
3,100.00	3,097.36	3,086.72	3,078.65	11.16	11.49	135.39	79.26	190.94	274.57	252.42	22.15	12.398		
3,200.00	3,197.25	3,186.22	3,177.86	11.52	11.87	135.31	82.64	197.78	284.57	261.70	22.87	12.444		
3,300.00	3,297.15	3,285.71	3,277.06	11.89	12.24	135.24	86.01	204.62	294.58	270.99	23.59	12.487		
3,400.00	3,397.05	3,385.21	3,376.27	12.25	12.62	135.18	89.39	211.47	304.59	280.27	24.31	12.527		
3,500.00	3,496.95	3,484.71	3,475.47	12.62	13.00	135.12	92.77	218.31	314.60	289.56	25.04	12.565		
3,600.00	3,596.85	3,584.21	3,574.67	12.98	13.38	135.07	96.14	225.15	324.61	298.85	25.76	12.601		
3,700.00	3,696.75	3,683.70	3,673.88	13.35	13.75	135.01	99.52	231.99	334.62	308.13	26.48	12.635		
3,800.00	3,796.65	3,783.20	3,773.08	13.72	14.13	134.96	102.89	238.83	344.63	317.42	27.21	12.667		
3,900.00	3,896.55	3,882.70	3,872.29	14.08	14.51	134.92	106.27	245.67	354.64	326.71	27.93	12.698		
4,000.00	3,996.45	3,982.19	3,971.49	14.45	14.89	134.87	109.64	252.52	364.65	335.99	28.65	12.727		
4,100.00	4,096.34	4,081.69	4,070.70	14.81	15.26	134.83	113.02	259.36	374.66	345.28	29.38	12.754		
4,200.00	4,196.24	4,181.19	4,169.90	15.18	15.64	134.79	116.39	266.20	384.67	354.57	30.10	12.780		
4,300.00	4,296.14	4,280.69	4,269.11	15.54	16.02	134.75	119.77	273.04	394.68	363.86	30.82	12.805		
4,400.00	4,396.04	4,380.18	4,368.31	15.91	16.40	134.72	123.15	279.88	404.69	373.14	31.54	12.829		
4,500.00	4,495.94	4,479.68	4,467.51	16.27	16.77	134.69	126.52	286.72	414.70	382.43	32.27	12.852		
4,600.00	4,595.84	4,579.18	4,566.72	16.64	17.15	134.65	129.90	293.57	424.71	391.72	32.99	12.874		
4,700.00	4,695.74	4,678.68	4,665.92	17.00	17.53	134.62	133.27	300.41	434.72	401.01	33.71	12.894		
4,800.00	4,795.64	4,778.17	4,765.13	17.37	17.91	134.59	136.65	307.25	444.73	410.29	34.44	12.914		
4,900.00	4,895.54	4,877.67	4,864.33	17.73	18.28	134.56	140.02	314.09	454.74	419.58	35.16	12.933		
5,000.00	4,995.43	4,977.17	4,963.54	18.10	18.66	134.54	143.40	320.93	464.75	428.87	35.88	12.952		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
5,100.00	5,095.33	5,076.67	5,062.74	18.46	19.04	134.51	146.78	327.77	474.77	438.16	36.61	12.969		
5,200.00	5,195.23	5,176.16	5,161.95	18.83	19.42	134.49	150.15	334.62	484.78	447.45	37.33	12.986		
5,300.00	5,295.13	5,275.66	5,261.15	19.19	19.79	134.46	153.53	341.46	494.79	456.74	38.05	13.003		
5,400.00	5,395.03	5,375.16	5,360.35	19.56	20.17	134.44	156.90	348.30	504.80	466.02	38.78	13.018		
5,500.00	5,494.93	5,474.66	5,459.56	19.92	20.55	134.42	160.28	355.14	514.81	475.31	39.50	13.033		
5,600.00	5,594.56	5,574.16	5,558.73	20.29	20.93	101.57	164.33	361.98	524.80	484.57	40.23	13.044		
5,700.00	5,691.64	5,674.51	5,657.27	20.69	21.33	94.87	181.31	368.83	534.61	493.58	41.02	13.032		
5,800.00	5,783.21	5,776.09	5,752.46	21.10	21.75	92.70	215.76	375.50	543.93	502.04	41.89	12.986		
5,900.00	5,866.49	5,878.92	5,841.11	21.55	22.20	91.59	267.22	381.77	552.48	509.64	42.84	12.897		
6,000.00	5,938.95	5,982.98	5,920.02	22.06	22.69	90.91	334.59	387.43	559.97	516.07	43.91	12.754		
6,100.00	5,998.39	6,088.15	5,986.11	22.64	23.26	90.46	416.07	392.26	566.17	521.05	45.12	12.548		
6,200.00	6,043.00	6,194.27	6,036.63	23.31	23.92	90.19	509.15	396.05	570.85	524.35	46.50	12.276		
6,300.00	6,071.42	6,301.12	6,069.33	24.06	24.69	90.04	610.67	398.64	573.85	525.80	48.05	11.943		
6,400.00	6,082.79	6,408.39	6,082.71	24.89	25.56	90.00	716.94	399.92	575.07	525.32	49.75	11.559		
6,500.00	6,083.00	6,509.65	6,083.00	25.78	26.46	90.00	818.20	400.29	575.09	523.53	51.56	11.154		
6,600.00	6,083.00	6,609.65	6,083.00	26.77	27.43	90.00	918.20	400.62	575.09	521.55	53.54	10.742		
6,700.00	6,083.00	6,709.65	6,083.00	27.83	28.48	90.00	1,018.19	400.96	575.09	519.41	55.67	10.330		
6,800.00	6,083.00	6,809.65	6,083.00	28.96	29.60	90.00	1,118.19	401.30	575.08	517.14	57.94	9.925		
6,900.00	6,083.00	6,909.65	6,083.00	30.15	30.78	90.00	1,218.19	401.64	575.08	514.74	60.34	9.531		
7,000.00	6,083.00	7,009.65	6,083.00	31.40	32.01	90.00	1,318.19	401.97	575.08	512.23	62.84	9.151		
7,100.00	6,083.00	7,109.65	6,083.00	32.70	33.29	90.00	1,418.19	402.31	575.08	509.63	65.45	8.787		
7,200.00	6,083.00	7,209.65	6,083.00	34.04	34.62	90.00	1,518.19	402.65	575.07	506.94	68.13	8.441		
7,300.00	6,083.00	7,309.65	6,083.00	35.42	35.99	90.00	1,618.19	402.99	575.07	504.18	70.89	8.112		
7,400.00	6,083.00	7,409.65	6,083.00	36.83	37.38	90.00	1,718.19	403.32	575.07	501.34	73.72	7.800		
7,500.00	6,083.00	7,509.65	6,083.00	38.27	38.81	90.00	1,818.19	403.66	575.07	498.45	76.61	7.506		
7,600.00	6,083.00	7,609.65	6,083.00	39.74	40.27	90.00	1,918.19	404.00	575.06	495.51	79.56	7.228		
7,700.00	6,083.00	7,709.65	6,083.00	41.23	41.75	90.00	2,018.19	404.34	575.06	492.51	82.55	6.967		
7,800.00	6,083.00	7,809.65	6,083.00	42.75	43.26	90.00	2,118.19	404.67	575.06	489.48	85.58	6.720		
7,900.00	6,083.00	7,909.65	6,083.00	44.28	44.78	90.00	2,218.19	405.01	575.06	486.41	88.65	6.487		
8,000.00	6,083.00	8,009.65	6,083.00	45.83	46.32	90.00	2,318.19	405.35	575.05	483.30	91.76	6.267		
8,100.00	6,083.00	8,109.65	6,083.00	47.40	47.88	90.00	2,418.19	405.69	575.05	480.16	94.89	6.060		
8,200.00	6,083.00	8,209.65	6,083.00	48.98	49.45	90.00	2,518.19	406.02	575.05	476.99	98.06	5.864		
8,300.00	6,083.00	8,309.65	6,083.00	50.57	51.04	90.00	2,618.19	406.36	575.05	473.80	101.25	5.680		
8,400.00	6,083.00	8,409.65	6,083.00	52.18	52.63	90.00	2,718.19	406.70	575.04	470.58	104.46	5.505		
8,500.00	6,083.00	8,509.65	6,083.00	53.79	54.24	90.00	2,818.18	407.03	575.04	467.35	107.69	5.340		
8,600.00	6,083.00	8,609.65	6,083.00	55.42	55.86	90.00	2,918.18	407.37	575.04	464.09	110.95	5.183		
8,700.00	6,083.00	8,709.65	6,083.00	57.05	57.49	90.00	3,018.18	407.71	575.04	460.82	114.22	5.035		
8,800.00	6,083.00	8,809.65	6,083.00	58.70	59.12	90.00	3,118.18	408.05	575.03	457.53	117.51	4.894		
8,900.00	6,083.00	8,909.65	6,083.00	60.35	60.77	90.00	3,218.18	408.38	575.03	454.22	120.81	4.760		
9,000.00	6,083.00	9,009.65	6,083.00	62.00	62.42	90.00	3,318.18	408.72	575.03	450.91	124.12	4.633		
9,100.00	6,083.00	9,109.65	6,083.00	63.66	64.07	90.00	3,418.18	409.06	575.03	447.58	127.45	4.512		
9,200.00	6,083.00	9,209.65	6,083.00	65.33	65.74	90.00	3,518.18	409.40	575.02	444.23	130.79	4.397		
9,300.00	6,083.00	9,309.65	6,083.00	67.01	67.41	90.00	3,618.18	409.73	575.02	440.88	134.14	4.287		
9,400.00	6,083.00	9,409.65	6,083.00	68.69	69.08	90.00	3,718.18	410.07	575.02	437.52	137.50	4.182		
9,500.00	6,083.00	9,509.65	6,083.00	70.37	70.76	90.00	3,818.18	410.41	575.02	434.15	140.87	4.082		
9,600.00	6,083.00	9,609.65	6,083.00	72.06	72.44	90.00	3,918.18	410.75	575.01	430.77	144.25	3.986		
9,700.00	6,083.00	9,709.65	6,083.00	73.75	74.13	90.00	4,018.18	411.08	575.01	427.38	147.63	3.895		
9,800.00	6,083.00	9,809.65	6,083.00	75.45	75.82	90.00	4,118.18	411.42	575.01	423.98	151.02	3.807		
9,900.00	6,083.00	9,909.65	6,083.00	77.15	77.52	90.00	4,218.18	411.76	575.01	420.58	154.42	3.724		
10,000.00	6,083.00	10,009.65	6,083.00	78.85	79.22	90.00	4,318.18	412.10	575.00	417.17	157.83	3.643		
10,100.00	6,083.00	10,109.65	6,083.00	80.56	80.92	90.00	4,418.18	412.43	575.00	413.76	161.24	3.566		
10,200.00	6,083.00	10,209.65	6,083.00	82.26	82.62	90.00	4,518.18	412.77	575.00	410.34	164.66	3.492		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,300.00	6,083.00	10,309.65	6,083.00	83.98	84.33	90.00	4,618.17	413.11	575.00	406.91	168.09	3.421		
10,400.00	6,083.00	10,409.65	6,083.00	85.69	86.04	90.00	4,718.17	413.45	574.99	403.48	171.52	3.352		
10,500.00	6,083.00	10,509.65	6,083.00	87.41	87.75	90.00	4,818.17	413.78	574.99	400.04	174.95	3.287		
10,600.00	6,083.00	10,609.65	6,083.00	89.12	89.47	90.00	4,918.17	414.12	574.99	396.60	178.39	3.223		
10,700.00	6,083.00	10,709.65	6,083.00	90.85	91.19	90.00	5,018.17	414.46	574.99	393.16	181.83	3.162		
10,800.00	6,083.00	10,809.65	6,083.00	92.57	92.91	90.00	5,118.17	414.80	574.98	389.71	185.27	3.103		
10,900.00	6,083.00	10,909.65	6,083.00	94.29	94.63	90.00	5,218.17	415.13	574.98	386.26	188.72	3.047		
11,000.00	6,083.00	11,009.65	6,083.00	96.02	96.35	90.00	5,318.17	415.47	574.98	382.80	192.18	2.992		
11,100.00	6,083.00	11,109.65	6,083.00	97.75	98.08	90.00	5,418.17	415.81	574.98	379.34	195.64	2.939		
11,200.00	6,083.00	11,209.65	6,083.00	99.48	99.80	90.00	5,518.17	416.15	574.97	375.88	199.10	2.888		
11,300.00	6,083.00	11,309.65	6,083.00	101.21	101.53	90.00	5,618.17	416.48	574.97	372.41	202.56	2.839		
11,400.00	6,083.00	11,409.65	6,083.00	102.94	103.26	90.00	5,718.17	416.82	574.97	368.94	206.02	2.791		
11,500.00	6,083.00	11,509.65	6,083.00	104.67	105.00	90.00	5,818.17	417.16	574.97	365.47	209.49	2.745		
11,600.00	6,083.00	11,609.65	6,083.00	106.41	106.73	90.00	5,918.17	417.50	574.96	362.00	212.96	2.700		
11,700.00	6,083.00	11,709.65	6,083.00	108.15	108.46	90.00	6,018.17	417.83	574.96	358.52	216.44	2.656		
11,800.00	6,083.00	11,809.65	6,083.00	109.88	110.20	90.00	6,118.17	418.17	574.96	355.04	219.91	2.614		
11,900.00	6,083.00	11,909.65	6,083.00	111.62	111.94	90.00	6,218.17	418.51	574.96	351.56	223.39	2.574		
12,000.00	6,083.00	12,009.65	6,083.00	113.36	113.67	90.00	6,318.16	418.85	574.95	348.08	226.87	2.534		
12,100.00	6,083.00	12,109.65	6,083.00	115.10	115.41	90.00	6,418.16	419.18	574.95	344.60	230.36	2.496		
12,200.00	6,083.00	12,209.65	6,083.00	116.85	117.15	90.00	6,518.16	419.52	574.95	341.11	233.84	2.459		
12,300.00	6,083.00	12,309.65	6,083.00	118.59	118.89	90.00	6,618.16	419.86	574.95	337.62	237.33	2.423		
12,400.00	6,083.00	12,409.65	6,083.00	120.33	120.64	90.00	6,718.16	420.20	574.94	334.13	240.82	2.387		
12,500.00	6,083.00	12,509.65	6,083.00	122.08	122.38	90.00	6,818.16	420.53	574.94	330.64	244.30	2.353		
12,600.00	6,083.00	12,609.65	6,083.00	123.82	124.12	90.00	6,918.16	420.87	574.94	327.14	247.80	2.320		
12,700.00	6,083.00	12,709.65	6,083.00	125.57	125.87	90.00	7,018.16	421.21	574.94	323.65	251.29	2.288		
12,800.00	6,083.00	12,809.65	6,083.00	127.32	127.61	90.00	7,118.16	421.54	574.93	320.15	254.78	2.257		
12,900.00	6,083.00	12,909.65	6,083.00	129.07	129.36	90.00	7,218.16	421.88	574.93	316.65	258.28	2.226		
13,000.00	6,083.00	13,009.65	6,083.00	130.81	131.11	90.00	7,318.16	422.22	574.93	313.15	261.78	2.196		
13,100.00	6,083.00	13,109.65	6,083.00	132.56	132.85	90.00	7,418.16	422.56	574.93	309.65	265.28	2.167		
13,200.00	6,083.00	13,209.65	6,083.00	134.31	134.60	90.00	7,518.16	422.89	574.92	306.15	268.78	2.139		
13,300.00	6,083.00	13,309.65	6,083.00	136.06	136.35	90.00	7,618.16	423.23	574.92	302.64	272.28	2.112		
13,400.00	6,083.00	13,409.65	6,083.00	137.81	138.10	90.00	7,718.16	423.57	574.92	299.14	275.78	2.085		
13,500.00	6,083.00	13,509.65	6,083.00	139.57	139.85	90.00	7,818.16	423.91	574.92	295.63	279.28	2.059		
13,600.00	6,083.00	13,609.65	6,083.00	141.32	141.60	90.00	7,918.16	424.24	574.91	292.12	282.79	2.033		
13,700.00	6,083.00	13,709.65	6,083.00	143.07	143.35	90.00	8,018.16	424.58	574.91	288.62	286.30	2.008		
13,800.00	6,083.00	13,809.65	6,083.00	144.82	145.11	90.00	8,118.15	424.92	574.91	285.11	289.80	1.984		
13,900.00	6,083.00	13,909.65	6,083.00	146.58	146.86	90.00	8,218.15	425.26	574.91	281.60	293.31	1.960		
14,000.00	6,083.00	14,009.65	6,083.00	148.33	148.61	90.00	8,318.15	425.59	574.90	278.09	296.82	1.937		
14,100.00	6,083.00	14,109.65	6,083.00	150.09	150.36	90.00	8,418.15	425.93	574.90	274.57	300.33	1.914		
14,200.00	6,083.00	14,209.65	6,083.00	151.84	152.12	90.00	8,518.15	426.27	574.90	271.06	303.84	1.892		
14,300.00	6,083.00	14,309.65	6,083.00	153.60	153.87	90.00	8,618.15	426.61	574.90	267.55	307.35	1.870		
14,400.00	6,083.00	14,409.65	6,083.00	155.35	155.63	90.00	8,718.15	426.94	574.89	264.03	310.86	1.849		
14,500.00	6,083.00	14,509.65	6,083.00	157.11	157.38	90.00	8,818.15	427.28	574.89	260.52	314.38	1.829		
14,600.00	6,083.00	14,609.65	6,083.00	158.87	159.14	90.00	8,918.15	427.62	574.89	257.00	317.89	1.808		
14,700.00	6,083.00	14,709.65	6,083.00	160.62	160.90	90.00	9,018.15	427.96	574.89	253.48	321.40	1.789		
14,800.00	6,083.00	14,809.65	6,083.00	162.38	162.65	90.00	9,118.15	428.29	574.88	249.96	324.92	1.769		
14,900.00	6,083.00	14,909.65	6,083.00	164.14	164.41	90.00	9,218.15	428.63	574.88	246.45	328.44	1.750		
15,000.00	6,083.00	15,009.65	6,083.00	165.90	166.17	90.00	9,318.15	428.97	574.88	242.93	331.95	1.732		
15,100.00	6,083.00	15,109.65	6,083.00	167.66	167.92	90.00	9,418.15	429.31	574.88	239.41	335.47	1.714		
15,200.00	6,083.00	15,209.65	6,083.00	169.42	169.68	90.00	9,518.15	429.64	574.87	235.89	338.99	1.696		
15,300.00	6,083.00	15,309.65	6,083.00	171.17	171.44	90.00	9,618.15	429.98	574.87	232.37	342.51	1.678		
15,400.00	6,083.00	15,409.65	6,083.00	172.93	173.20	90.00	9,718.15	430.32	574.87	228.84	346.02	1.661		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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-20-06 - 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	6,083.00	15,509.65	6,083.00	174.69	174.96	90.00	9,818.14	430.66	574.87	225.32	349.54	1.645	
15,600.00	6,083.00	15,609.65	6,083.00	176.45	176.72	90.00	9,918.14	430.99	574.86	221.80	353.06	1.628	
15,700.00	6,083.00	15,709.65	6,083.00	178.21	178.48	90.00	10,018.14	431.33	574.86	218.28	356.59	1.612	
15,800.00	6,083.00	15,809.65	6,083.00	179.98	180.24	90.00	10,118.14	431.67	574.86	214.75	360.11	1.596	
15,900.00	6,083.00	15,909.65	6,083.00	181.74	182.00	90.00	10,218.14	432.01	574.86	211.23	363.63	1.581	
16,000.00	6,083.00	16,009.65	6,083.00	183.50	183.76	90.00	10,318.14	432.34	574.85	207.70	367.15	1.566	
16,013.13	6,083.00	16,022.79	6,083.00	183.73	183.99	90.00	10,331.28	432.39	574.85	207.24	367.61	1.564 SF	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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-20-07 - 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		
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-29.87	0.00	29.87					
100.00	100.00	100.00	100.00	0.27	0.27	-180.00	-29.87	0.00	29.87	29.34	0.54	55.558		
200.00	200.00	200.18	200.16	0.63	0.63	176.68	-29.50	1.71	29.55	28.30	1.25	23.614		
290.81	290.81	290.95	290.81	0.95	0.95	167.70	-28.52	6.22	29.19	27.28	1.90	15.330 CC		
300.00	300.00	300.12	299.96	0.99	0.99	166.48	-28.38	6.83	29.19	27.22	1.97	14.820 ES		
400.00	400.00	399.57	399.03	1.34	1.36	150.05	-26.54	15.29	30.64	27.94	2.70	11.350		
500.00	499.98	498.16	496.88	1.70	1.75	176.21	-23.99	26.99	37.98	34.54	3.43	11.059		
600.00	599.88	595.47	593.01	2.06	2.16	162.92	-20.77	41.76	52.88	48.72	4.16	12.709		
700.00	699.78	693.49	689.58	2.42	2.59	154.92	-17.19	58.14	70.81	65.94	4.87	14.529		
800.00	799.68	791.51	786.15	2.78	3.03	150.19	-13.62	74.52	89.53	83.95	5.59	16.025		
900.00	899.58	889.53	882.73	3.14	3.47	147.10	-10.05	90.90	108.65	102.34	6.30	17.238		
1,000.00	999.48	987.55	979.30	3.50	3.91	144.94	-6.47	107.28	127.97	120.95	7.02	18.226		
1,100.00	1,099.38	1,085.56	1,075.87	3.87	4.36	143.35	-2.90	123.66	147.42	139.68	7.74	19.043		
1,200.00	1,199.28	1,183.58	1,172.45	4.23	4.80	142.13	0.67	140.04	166.96	158.50	8.46	19.728		
1,300.00	1,299.18	1,281.60	1,269.02	4.59	5.25	141.17	4.25	156.42	186.56	177.37	9.19	20.310		
1,400.00	1,399.08	1,379.62	1,365.59	4.96	5.70	140.38	7.82	172.80	206.20	196.29	9.91	20.809		
1,500.00	1,498.97	1,477.63	1,462.17	5.32	6.15	139.74	11.39	189.18	225.86	215.23	10.63	21.241		
1,600.00	1,598.87	1,575.65	1,558.74	5.69	6.60	139.20	14.97	205.56	245.55	234.20	11.36	21.619		
1,700.00	1,698.77	1,673.67	1,655.31	6.05	7.05	138.73	18.54	221.94	265.26	253.18	12.08	21.953		
1,800.00	1,798.67	1,771.69	1,751.89	6.42	7.50	138.34	22.11	238.32	284.99	272.18	12.81	22.249		
1,900.00	1,898.57	1,869.71	1,848.46	6.78	7.95	137.99	25.69	254.70	304.72	291.19	13.53	22.514		
2,000.00	1,998.47	1,967.72	1,945.03	7.15	8.40	137.69	29.26	271.08	324.46	310.20	14.26	22.752		
2,100.00	2,098.37	2,065.74	2,041.61	7.51	8.86	137.42	32.83	287.47	344.22	329.23	14.99	22.967		
2,200.00	2,198.27	2,163.76	2,138.18	7.87	9.31	137.18	36.41	303.85	363.97	348.26	15.71	23.162		
2,300.00	2,298.17	2,261.78	2,234.75	8.24	9.76	136.96	39.98	320.23	383.74	367.30	16.44	23.340		
2,400.00	2,398.06	2,359.80	2,331.33	8.60	10.21	136.77	43.55	336.61	403.51	386.34	17.17	23.503		
2,500.00	2,497.96	2,457.81	2,427.90	8.97	10.66	136.59	47.13	352.99	423.28	405.38	17.90	23.653		
2,600.00	2,597.86	2,555.83	2,524.47	9.33	11.11	136.43	50.70	369.37	443.05	424.43	18.62	23.791		
2,700.00	2,697.76	2,653.85	2,621.05	9.70	11.57	136.28	54.27	385.75	462.83	443.48	19.35	23.918		
2,800.00	2,797.66	2,751.87	2,717.62	10.06	12.02	136.15	57.84	402.13	482.62	462.54	20.08	24.037		
2,900.00	2,897.56	2,849.88	2,814.19	10.43	12.47	136.02	61.42	418.51	502.40	481.59	20.81	24.147		
3,000.00	2,997.46	2,947.90	2,910.77	10.79	12.92	135.91	64.99	434.89	522.19	500.65	21.53	24.250		
3,100.00	3,097.36	3,045.92	3,007.34	11.16	13.38	135.80	68.56	451.27	541.97	519.71	22.26	24.345		
3,200.00	3,197.25	3,143.94	3,103.91	11.52	13.83	135.70	72.14	467.65	561.76	538.77	22.99	24.435		
3,300.00	3,297.15	3,241.96	3,200.49	11.89	14.28	135.61	75.71	484.03	581.55	557.84	23.72	24.520		
3,400.00	3,397.05	3,339.97	3,297.06	12.25	14.73	135.53	79.28	500.41	601.35	576.90	24.45	24.599		
3,500.00	3,496.95	3,437.99	3,393.63	12.62	15.19	135.45	82.86	516.79	621.14	595.97	25.17	24.674		
3,600.00	3,596.85	3,536.01	3,490.21	12.98	15.64	135.37	86.43	533.17	640.94	615.03	25.90	24.744		
3,700.00	3,696.75	3,634.03	3,586.78	13.35	16.09	135.30	90.00	549.55	660.73	634.10	26.63	24.811		
3,800.00	3,796.65	3,732.05	3,683.35	13.72	16.54	135.23	93.58	565.93	680.53	653.17	27.36	24.874		
3,900.00	3,896.55	3,830.06	3,779.93	14.08	17.00	135.17	97.15	582.32	700.33	672.24	28.09	24.933		
4,000.00	3,996.45	3,928.08	3,876.50	14.45	17.45	135.11	100.72	598.70	720.12	691.31	28.82	24.990		
4,100.00	4,096.34	4,026.10	3,973.07	14.81	17.90	135.05	104.30	615.08	739.92	710.38	29.55	25.044		
4,200.00	4,196.24	4,124.12	4,069.65	15.18	18.35	135.00	107.87	631.46	759.72	729.45	30.27	25.095		
4,300.00	4,296.14	4,222.13	4,166.22	15.54	18.81	134.95	111.44	647.84	779.52	748.52	31.00	25.144		
4,400.00	4,396.04	4,320.15	4,262.79	15.91	19.26	134.90	115.02	664.22	799.32	767.59	31.73	25.190		
4,500.00	4,495.94	4,418.17	4,359.37	16.27	19.71	134.85	118.59	680.60	819.13	786.67	32.46	25.235		
4,600.00	4,595.84	4,516.19	4,455.94	16.64	20.16	134.81	122.16	696.98	838.93	805.74	33.19	25.277		
4,700.00	4,695.74	4,614.21	4,552.51	17.00	20.62	134.77	125.73	713.36	858.73	824.81	33.92	25.318		
4,800.00	4,795.64	4,712.22	4,649.09	17.37	21.07	134.73	129.31	729.74	878.53	843.89	34.65	25.357		
4,900.00	4,895.54	4,810.24	4,745.66	17.73	21.52	134.69	132.88	746.12	898.34	862.96	35.38	25.394		
5,000.00	4,995.43	4,908.26	4,842.23	18.10	21.98	134.65	136.45	762.50	918.14	882.03	36.11	25.429		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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-20-07 - 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				
5,100.00	5,095.33	5,006.28	4,938.81	18.46	22.43	134.62	140.03	778.88	937.94	901.11	36.83	25.464				
5,200.00	5,195.23	5,104.29	5,035.38	18.83	22.88	134.59	143.60	795.26	957.75	920.18	37.56	25.497				
5,300.00	5,295.13	5,202.31	5,131.95	19.19	23.33	134.55	147.17	811.64	977.55	939.26	38.29	25.528				
5,400.00	5,395.03	5,300.33	5,228.53	19.56	23.79	134.52	150.75	828.02	997.36	958.33	39.02	25.559				
5,500.00	5,494.93	5,398.35	5,325.10	19.92	24.24	134.49	154.32	844.40	1,017.16	977.41	39.75	25.588				
5,600.00	5,594.56	5,496.24	5,421.55	20.29	24.69	100.84	157.89	860.76	1,036.93	996.44	40.49	25.609				
5,700.00	5,691.64	5,592.24	5,516.14	20.69	25.14	93.48	161.39	876.81	1,056.50	1,015.23	41.27	25.600				
5,800.00	5,783.21	5,691.49	5,613.52	21.10	25.60	91.32	170.03	893.34	1,075.93	1,033.79	42.15	25.528				
5,900.00	5,866.49	5,798.89	5,715.60	21.55	26.11	90.34	197.90	910.74	1,094.62	1,051.45	43.17	25.356				
6,000.00	5,938.95	5,914.62	5,817.77	22.06	26.67	89.89	248.94	928.23	1,111.84	1,067.49	44.34	25.074				
6,100.00	5,998.39	6,039.74	5,914.39	22.64	27.27	89.74	326.27	944.87	1,126.79	1,081.13	45.66	24.676				
6,200.00	6,043.00	6,174.54	5,997.32	23.31	27.94	89.79	431.16	959.28	1,138.62	1,091.49	47.14	24.155				
6,300.00	6,071.42	6,317.88	6,056.45	24.06	28.72	89.90	560.91	969.74	1,146.52	1,097.74	48.78	23.505				
6,400.00	6,082.79	6,466.82	6,082.35	24.89	29.65	89.99	707.07	974.62	1,149.83	1,099.25	50.58	22.731				
6,500.00	6,083.00	6,576.01	6,083.00	25.78	30.42	90.00	816.25	975.10	1,149.91	1,097.51	52.40	21.944				
6,600.00	6,083.00	6,676.01	6,083.00	26.77	31.22	90.00	916.25	975.44	1,149.91	1,095.55	54.35	21.156				
6,700.00	6,083.00	6,776.01	6,083.00	27.83	32.10	90.00	1,016.25	975.77	1,149.90	1,093.44	56.46	20.366				
6,800.00	6,083.00	6,876.01	6,083.00	28.96	33.06	90.00	1,116.25	976.11	1,149.90	1,091.19	58.71	19.587				
6,900.00	6,083.00	6,976.01	6,083.00	30.15	34.09	90.00	1,216.25	976.45	1,149.90	1,088.82	61.08	18.827				
7,000.00	6,083.00	7,076.01	6,083.00	31.40	35.18	90.00	1,316.25	976.79	1,149.90	1,086.34	63.56	18.092				
7,100.00	6,083.00	7,176.01	6,083.00	32.70	36.34	90.00	1,416.25	977.13	1,149.90	1,083.76	66.13	17.387				
7,200.00	6,083.00	7,276.01	6,083.00	34.04	37.54	90.00	1,516.25	977.46	1,149.89	1,081.09	68.80	16.714				
7,300.00	6,083.00	7,376.01	6,083.00	35.42	38.79	90.00	1,616.25	977.80	1,149.89	1,078.35	71.54	16.074				
7,400.00	6,083.00	7,476.01	6,083.00	36.83	40.08	90.00	1,716.25	978.14	1,149.89	1,075.54	74.35	15.466				
7,500.00	6,083.00	7,576.01	6,083.00	38.27	41.41	90.00	1,816.25	978.48	1,149.89	1,072.67	77.22	14.892				
7,600.00	6,083.00	7,676.01	6,083.00	39.74	42.77	90.00	1,916.25	978.82	1,149.88	1,069.74	80.14	14.348				
7,700.00	6,083.00	7,776.01	6,083.00	41.23	44.16	90.00	2,016.24	979.15	1,149.88	1,066.77	83.11	13.835				
7,800.00	6,083.00	7,876.01	6,083.00	42.75	45.58	90.00	2,116.24	979.49	1,149.88	1,063.75	86.13	13.351				
7,900.00	6,083.00	7,976.01	6,083.00	44.28	47.03	90.00	2,216.24	979.83	1,149.88	1,060.69	89.18	12.893				
8,000.00	6,083.00	8,076.01	6,083.00	45.83	48.49	90.00	2,316.24	980.17	1,149.88	1,057.60	92.28	12.461				
8,100.00	6,083.00	8,176.01	6,083.00	47.40	49.98	90.00	2,416.24	980.50	1,149.87	1,054.48	95.40	12.053				
8,200.00	6,083.00	8,276.01	6,083.00	48.98	51.49	90.00	2,516.24	980.84	1,149.87	1,051.32	98.55	11.668				
8,300.00	6,083.00	8,376.01	6,083.00	50.57	53.01	90.00	2,616.24	981.18	1,149.87	1,048.14	101.73	11.304				
8,400.00	6,083.00	8,476.01	6,083.00	52.18	54.55	90.00	2,716.24	981.52	1,149.87	1,044.94	104.93	10.959				
8,500.00	6,083.00	8,576.01	6,083.00	53.79	56.10	90.00	2,816.24	981.86	1,149.87	1,041.72	108.15	10.632				
8,600.00	6,083.00	8,676.01	6,083.00	55.42	57.67	90.00	2,916.24	982.19	1,149.86	1,038.47	111.39	10.323				
8,700.00	6,083.00	8,776.01	6,083.00	57.05	59.25	90.00	3,016.24	982.53	1,149.86	1,035.21	114.65	10.029				
8,800.00	6,083.00	8,876.01	6,083.00	58.70	60.83	90.00	3,116.24	982.87	1,149.86	1,031.93	117.93	9.750				
8,900.00	6,083.00	8,976.01	6,083.00	60.35	62.43	90.00	3,216.24	983.21	1,149.86	1,028.64	121.22	9.486				
9,000.00	6,083.00	9,076.01	6,083.00	62.00	64.04	90.00	3,316.24	983.55	1,149.86	1,025.33	124.53	9.234				
9,100.00	6,083.00	9,176.01	6,083.00	63.66	65.66	90.00	3,416.24	983.88	1,149.85	1,022.01	127.85	8.994				
9,200.00	6,083.00	9,276.01	6,083.00	65.33	67.28	90.00	3,516.24	984.22	1,149.85	1,018.67	131.18	8.766				
9,300.00	6,083.00	9,376.01	6,083.00	67.01	68.92	90.00	3,616.24	984.56	1,149.85	1,015.33	134.52	8.548				
9,400.00	6,083.00	9,476.01	6,083.00	68.69	70.55	90.00	3,716.24	984.90	1,149.85	1,011.97	137.87	8.340				
9,500.00	6,083.00	9,576.01	6,083.00	70.37	72.20	90.00	3,816.23	985.23	1,149.84	1,008.61	141.24	8.141				
9,600.00	6,083.00	9,676.01	6,083.00	72.06	73.85	90.00	3,916.23	985.57	1,149.84	1,005.24	144.61	7.952				
9,700.00	6,083.00	9,776.01	6,083.00	73.75	75.51	90.00	4,016.23	985.91	1,149.84	1,001.86	147.99	7.770				
9,800.00	6,083.00	9,876.01	6,083.00	75.45	77.17	90.00	4,116.23	986.25	1,149.84	998.47	151.37	7.596				
9,900.00	6,083.00	9,976.01	6,083.00	77.15	78.84	90.00	4,216.23	986.59	1,149.84	995.07	154.77	7.429				
10,000.00	6,083.00	10,076.01	6,083.00	78.85	80.51	90.00	4,316.23	986.92	1,149.83	991.67	158.17	7.270				
10,100.00	6,083.00	10,176.01	6,083.00	80.56	82.19	90.00	4,416.23	987.26	1,149.83	988.26	161.57	7.116				
10,200.00	6,083.00	10,276.01	6,083.00	82.26	83.87	90.00	4,516.23	987.60	1,149.83	984.84	164.99	6.969				

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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-20-07 - 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		
10,300.00	6,083.00	10,376.01	6,083.00	83.98	85.55	90.00	4,616.23	987.94	1,149.83	981.42	168.41	6.828		
10,400.00	6,083.00	10,476.01	6,083.00	85.69	87.24	90.00	4,716.23	988.28	1,149.83	978.00	171.83	6.692		
10,500.00	6,083.00	10,576.01	6,083.00	87.41	88.93	90.00	4,816.23	988.61	1,149.82	974.56	175.26	6.561		
10,600.00	6,083.00	10,676.01	6,083.00	89.12	90.62	90.00	4,916.23	988.95	1,149.82	971.13	178.69	6.435		
10,700.00	6,083.00	10,776.01	6,083.00	90.85	92.32	90.00	5,016.23	989.29	1,149.82	967.69	182.13	6.313		
10,800.00	6,083.00	10,876.01	6,083.00	92.57	94.02	90.00	5,116.23	989.63	1,149.82	964.25	185.57	6.196		
10,900.00	6,083.00	10,976.01	6,083.00	94.29	95.72	90.00	5,216.23	989.96	1,149.82	960.80	189.02	6.083		
11,000.00	6,083.00	11,076.01	6,083.00	96.02	97.43	90.00	5,316.23	990.30	1,149.81	957.35	192.47	5.974		
11,100.00	6,083.00	11,176.01	6,083.00	97.75	99.14	90.00	5,416.23	990.64	1,149.81	953.89	195.92	5.869		
11,200.00	6,083.00	11,276.01	6,083.00	99.48	100.85	90.00	5,516.23	990.98	1,149.81	950.43	199.38	5.767		
11,300.00	6,083.00	11,376.01	6,083.00	101.21	102.56	90.00	5,616.22	991.32	1,149.81	946.97	202.84	5.669		
11,400.00	6,083.00	11,476.01	6,083.00	102.94	104.27	90.00	5,716.22	991.65	1,149.80	943.51	206.30	5.573		
11,500.00	6,083.00	11,576.01	6,083.00	104.67	105.99	90.00	5,816.22	991.99	1,149.80	940.04	209.76	5.481		
11,600.00	6,083.00	11,676.01	6,083.00	106.41	107.71	90.00	5,916.22	992.33	1,149.80	936.57	213.23	5.392		
11,700.00	6,083.00	11,776.01	6,083.00	108.15	109.43	90.00	6,016.22	992.67	1,149.80	933.09	216.70	5.306		
11,800.00	6,083.00	11,876.01	6,083.00	109.88	111.15	90.00	6,116.22	993.00	1,149.80	929.62	220.18	5.222		
11,900.00	6,083.00	11,976.01	6,083.00	111.62	112.87	90.00	6,216.22	993.34	1,149.79	926.14	223.65	5.141		
12,000.00	6,083.00	12,076.01	6,083.00	113.36	114.60	90.00	6,316.22	993.68	1,149.79	922.66	227.13	5.062		
12,100.00	6,083.00	12,176.01	6,083.00	115.10	116.32	90.00	6,416.22	994.02	1,149.79	919.18	230.61	4.986		
12,200.00	6,083.00	12,276.01	6,083.00	116.85	118.05	90.00	6,516.22	994.36	1,149.79	915.70	234.09	4.912		
12,300.00	6,083.00	12,376.01	6,083.00	118.59	119.78	90.00	6,616.22	994.69	1,149.79	912.21	237.58	4.840		
12,400.00	6,083.00	12,476.01	6,083.00	120.33	121.51	90.00	6,716.22	995.03	1,149.78	908.72	241.06	4.770		
12,500.00	6,083.00	12,576.01	6,083.00	122.08	123.24	90.00	6,816.22	995.37	1,149.78	905.23	244.55	4.702		
12,600.00	6,083.00	12,676.01	6,083.00	123.82	124.97	90.00	6,916.22	995.71	1,149.78	901.74	248.04	4.635		
12,700.00	6,083.00	12,776.01	6,083.00	125.57	126.71	90.00	7,016.22	996.05	1,149.78	898.25	251.53	4.571		
12,800.00	6,083.00	12,876.01	6,083.00	127.32	128.44	90.00	7,116.22	996.38	1,149.78	894.75	255.02	4.509		
12,900.00	6,083.00	12,976.01	6,083.00	129.07	130.18	90.00	7,216.22	996.72	1,149.77	891.26	258.52	4.448		
13,000.00	6,083.00	13,076.01	6,083.00	130.81	131.92	90.00	7,316.21	997.06	1,149.77	887.76	262.01	4.388		
13,100.00	6,083.00	13,176.01	6,083.00	132.56	133.65	90.00	7,416.21	997.40	1,149.77	884.26	265.51	4.330		
13,200.00	6,083.00	13,276.01	6,083.00	134.31	135.39	90.00	7,516.21	997.73	1,149.77	880.76	269.01	4.274		
13,300.00	6,083.00	13,376.01	6,083.00	136.06	137.13	90.00	7,616.21	998.07	1,149.77	877.26	272.50	4.219		
13,400.00	6,083.00	13,476.01	6,083.00	137.81	138.87	90.00	7,716.21	998.41	1,149.76	873.76	276.01	4.166		
13,500.00	6,083.00	13,576.01	6,083.00	139.57	140.62	90.00	7,816.21	998.75	1,149.76	870.25	279.51	4.114		
13,600.00	6,083.00	13,676.01	6,083.00	141.32	142.36	90.00	7,916.21	999.09	1,149.76	866.75	283.01	4.063		
13,700.00	6,083.00	13,776.01	6,083.00	143.07	144.10	90.00	8,016.21	999.42	1,149.76	863.24	286.51	4.013		
13,800.00	6,083.00	13,876.01	6,083.00	144.82	145.84	90.00	8,116.21	999.76	1,149.75	859.74	290.02	3.964		
13,900.00	6,083.00	13,976.01	6,083.00	146.58	147.59	90.00	8,216.21	1,000.10	1,149.75	856.23	293.53	3.917		
14,000.00	6,083.00	14,076.01	6,083.00	148.33	149.33	90.00	8,316.21	1,000.44	1,149.75	852.72	297.03	3.871		
14,100.00	6,083.00	14,176.01	6,083.00	150.09	151.08	90.00	8,416.21	1,000.78	1,149.75	849.21	300.54	3.826		
14,200.00	6,083.00	14,276.01	6,083.00	151.84	152.83	90.00	8,516.21	1,001.11	1,149.75	845.70	304.05	3.781		
14,300.00	6,083.00	14,376.01	6,083.00	153.60	154.57	90.00	8,616.21	1,001.45	1,149.74	842.18	307.56	3.738		
14,400.00	6,083.00	14,476.01	6,083.00	155.35	156.32	90.00	8,716.21	1,001.79	1,149.74	838.67	311.07	3.696		
14,500.00	6,083.00	14,576.01	6,083.00	157.11	158.07	90.00	8,816.21	1,002.13	1,149.74	835.16	314.58	3.655		
14,600.00	6,083.00	14,676.01	6,083.00	158.87	159.82	90.00	8,916.21	1,002.46	1,149.74	831.64	318.09	3.614		
14,700.00	6,083.00	14,776.01	6,083.00	160.62	161.57	90.00	9,016.21	1,002.80	1,149.74	828.13	321.61	3.575		
14,800.00	6,083.00	14,876.01	6,083.00	162.38	163.32	90.00	9,116.20	1,003.14	1,149.73	824.61	325.12	3.536		
14,900.00	6,083.00	14,976.01	6,083.00	164.14	165.07	90.00	9,216.20	1,003.48	1,149.73	821.10	328.64	3.499		
15,000.00	6,083.00	15,076.01	6,083.00	165.90	166.82	90.00	9,316.20	1,003.82	1,149.73	817.58	332.15	3.461		
15,100.00	6,083.00	15,176.01	6,083.00	167.66	168.57	90.00	9,416.20	1,004.15	1,149.73	814.06	335.67	3.425		
15,200.00	6,083.00	15,276.01	6,083.00	169.42	170.32	90.00	9,516.20	1,004.49	1,149.73	810.54	339.18	3.390		
15,300.00	6,083.00	15,376.01	6,083.00	171.17	172.08	90.00	9,616.20	1,004.83	1,149.72	807.02	342.70	3.355		
15,400.00	6,083.00	15,476.01	6,083.00	172.93	173.83	90.00	9,716.20	1,005.17	1,149.72	803.50	346.22	3.321		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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-20-07 - 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	6,083.00	15,576.01	6,083.00	174.69	175.58	90.00	9,816.20	1,005.51	1,149.72	799.98	349.74	3.287	
15,600.00	6,083.00	15,676.01	6,083.00	176.45	177.34	90.00	9,916.20	1,005.84	1,149.72	796.46	353.26	3.255	
15,700.00	6,083.00	15,776.01	6,083.00	178.21	179.09	90.00	10,016.20	1,006.18	1,149.71	792.94	356.78	3.223	
15,800.00	6,083.00	15,876.01	6,083.00	179.98	180.84	90.00	10,116.20	1,006.52	1,149.71	789.42	360.30	3.191	
15,900.00	6,083.00	15,976.01	6,083.00	181.74	182.60	90.00	10,216.20	1,006.86	1,149.71	785.89	363.82	3.160	
16,000.00	6,083.00	16,076.01	6,083.00	183.50	184.35	90.00	10,316.20	1,007.19	1,149.71	782.37	367.34	3.130	
16,013.13	6,083.00	16,089.14	6,083.00	183.73	184.59	90.00	10,329.33	1,007.24	1,149.71	781.91	367.80	3.126 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-44.81	0.00	44.81					
100.00	100.00	100.00	100.00	0.27	0.27	-180.00	-44.81	0.00	44.81	44.27	0.54	83.336		
200.00	200.00	200.19	200.17	0.63	0.62	177.77	-44.56	1.73	44.59	43.34	1.25	35.646		
293.46	293.46	293.60	293.46	0.96	0.96	171.61	-43.86	6.47	44.33	42.41	1.92	23.061 CC		
300.00	300.00	300.13	299.97	0.99	0.99	171.03	-43.79	6.91	44.33	42.36	1.97	22.512 ES		
400.00	400.00	399.59	399.04	1.34	1.36	159.99	-42.53	15.48	45.27	42.57	2.70	16.766		
500.00	499.98	498.17	496.89	1.70	1.75	-169.75	-40.78	27.33	50.90	47.46	3.44	14.798		
600.00	599.88	595.40	592.94	2.06	2.16	177.08	-38.58	42.27	63.70	59.52	4.18	15.246		
700.00	699.78	691.31	687.12	2.42	2.59	167.08	-35.94	60.16	81.36	76.47	4.89	16.629		
800.00	799.68	785.71	779.18	2.78	3.05	159.76	-32.90	80.80	103.32	97.73	5.59	18.477		
900.00	899.58	878.45	868.91	3.14	3.54	154.38	-29.48	103.99	129.16	122.89	6.28	20.583		
1,000.00	999.48	973.80	960.73	3.50	4.07	150.42	-25.73	129.42	157.29	150.31	6.98	22.534		
1,100.00	1,099.38	1,069.29	1,052.69	3.87	4.61	147.65	-21.97	154.88	185.90	178.20	7.70	24.144		
1,200.00	1,199.28	1,164.78	1,144.64	4.23	5.16	145.62	-18.22	180.34	214.81	206.39	8.42	25.515		
1,300.00	1,299.18	1,260.27	1,236.60	4.59	5.72	144.07	-14.46	205.80	243.91	234.77	9.14	26.683		
1,400.00	1,399.08	1,355.76	1,328.55	4.96	6.27	142.85	-10.71	231.26	273.13	263.27	9.86	27.688		
1,500.00	1,498.97	1,451.25	1,420.51	5.32	6.83	141.87	-6.95	256.73	302.45	291.86	10.59	28.559		
1,600.00	1,598.87	1,546.74	1,512.46	5.69	7.39	141.06	-3.20	282.19	331.84	320.52	11.32	29.321		
1,700.00	1,698.77	1,642.23	1,604.41	6.05	7.95	140.38	0.56	307.65	361.27	349.23	12.05	29.991		
1,800.00	1,798.67	1,737.71	1,696.37	6.42	8.52	139.80	4.31	333.11	390.75	377.97	12.78	30.586		
1,900.00	1,898.57	1,833.20	1,788.32	6.78	9.08	139.31	8.07	358.58	420.26	406.75	13.51	31.116		
2,000.00	1,998.47	1,928.69	1,880.28	7.15	9.65	138.88	11.82	384.04	449.79	435.55	14.24	31.593		
2,100.00	2,098.37	2,024.18	1,972.23	7.51	10.21	138.50	15.58	409.50	479.34	464.37	14.97	32.022		
2,200.00	2,198.27	2,119.67	2,064.19	7.87	10.78	138.17	19.33	434.96	508.91	493.21	15.70	32.412		
2,300.00	2,298.17	2,215.16	2,156.14	8.24	11.35	137.87	23.09	460.43	538.49	522.06	16.43	32.766		
2,400.00	2,398.06	2,310.65	2,248.10	8.60	11.91	137.60	26.84	485.89	568.09	550.92	17.17	33.090		
2,500.00	2,497.96	2,406.14	2,340.05	8.97	12.48	137.36	30.60	511.35	597.69	579.79	17.90	33.388		
2,600.00	2,597.86	2,501.63	2,432.01	9.33	13.05	137.15	34.35	536.81	627.31	608.67	18.64	33.661		
2,700.00	2,697.76	2,597.11	2,523.96	9.70	13.62	136.95	38.11	562.28	656.93	637.56	19.37	33.914		
2,800.00	2,797.66	2,692.60	2,615.92	10.06	14.19	136.77	41.86	587.74	686.55	666.45	20.11	34.148		
2,900.00	2,897.56	2,788.09	2,707.87	10.43	14.76	136.60	45.61	613.20	716.19	695.35	20.84	34.366		
3,000.00	2,997.46	2,883.58	2,799.83	10.79	15.33	136.45	49.37	638.66	745.83	724.25	21.58	34.568		
3,100.00	3,097.36	2,979.07	2,891.78	11.16	15.90	136.31	53.12	664.13	775.47	753.16	22.31	34.757		
3,200.00	3,197.25	3,074.56	2,983.74	11.52	16.47	136.18	56.88	689.59	805.12	782.07	23.05	34.934		
3,300.00	3,297.15	3,170.05	3,075.69	11.89	17.04	136.06	60.63	715.05	834.77	810.98	23.78	35.099		
3,400.00	3,397.05	3,265.54	3,167.65	12.25	17.61	135.94	64.39	740.51	864.42	839.90	24.52	35.255		
3,500.00	3,496.95	3,361.03	3,259.60	12.62	18.18	135.84	68.14	765.98	894.08	868.82	25.26	35.401		
3,600.00	3,596.85	3,456.51	3,351.56	12.98	18.75	135.74	71.90	791.44	923.73	897.74	25.99	35.539		
3,700.00	3,696.75	3,552.00	3,443.51	13.35	19.32	135.65	75.65	816.90	953.40	926.67	26.73	35.669		
3,800.00	3,796.65	3,647.49	3,535.47	13.72	19.89	135.56	79.41	842.36	983.06	955.59	27.47	35.792		
3,900.00	3,896.55	3,742.98	3,627.42	14.08	20.46	135.48	83.16	867.83	1,012.72	984.52	28.20	35.909		
4,000.00	3,996.45	3,838.47	3,719.38	14.45	21.03	135.40	86.92	893.29	1,042.39	1,013.45	28.94	36.019		
4,100.00	4,096.34	3,933.96	3,811.33	14.81	21.60	135.33	90.67	918.75	1,072.06	1,042.38	29.68	36.124		
4,200.00	4,196.24	4,029.45	3,903.29	15.18	22.17	135.26	94.43	944.21	1,101.73	1,071.32	30.41	36.224		
4,300.00	4,296.14	4,124.94	3,995.24	15.54	22.74	135.19	98.18	969.67	1,131.40	1,100.25	31.15	36.318		
4,400.00	4,396.04	4,220.42	4,087.19	15.91	23.31	135.13	101.94	995.14	1,161.07	1,129.18	31.89	36.409		
4,500.00	4,495.94	4,315.91	4,179.15	16.27	23.88	135.07	105.69	1,020.60	1,190.75	1,158.12	32.63	36.495		
4,600.00	4,595.84	4,411.40	4,271.10	16.64	24.45	135.02	109.45	1,046.06	1,220.42	1,187.06	33.37	36.577		
4,700.00	4,695.74	4,506.89	4,363.06	17.00	25.02	134.96	113.20	1,071.52	1,250.10	1,216.00	34.10	36.655		
4,800.00	4,795.64	4,602.38	4,455.01	17.37	25.59	134.91	116.96	1,096.99	1,279.78	1,244.93	34.84	36.731		
4,900.00	4,895.54	4,697.87	4,546.97	17.73	26.17	134.86	120.71	1,122.45	1,309.45	1,273.87	35.58	36.802		
5,000.00	4,995.43	4,793.36	4,638.92	18.10	26.74	134.82	124.47	1,147.91	1,339.13	1,302.81	36.32	36.871		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
5,100.00	5,095.33	4,888.85	4,730.88	18.46	27.31	134.77	128.22	1,173.37	1,368.81	1,331.76	37.06	36.937		
5,200.00	5,195.23	4,984.34	4,822.83	18.83	27.88	134.73	131.98	1,198.84	1,398.49	1,360.70	37.80	37.000		
5,300.00	5,295.13	5,079.82	4,914.79	19.19	28.45	134.69	135.73	1,224.30	1,428.17	1,389.64	38.54	37.061		
5,400.00	5,395.03	5,175.31	5,006.74	19.56	29.02	134.65	139.49	1,249.76	1,457.86	1,418.58	39.27	37.120		
5,500.00	5,494.93	5,270.80	5,098.70	19.92	29.59	134.61	143.24	1,275.22	1,487.54	1,447.52	40.01	37.176		
5,600.00	5,594.56	5,366.19	5,190.55	20.29	30.16	100.17	146.99	1,300.66	1,517.18	1,476.41	40.76	37.218		
5,700.00	5,691.64	5,459.79	5,280.69	20.69	30.72	91.42	150.67	1,325.62	1,546.36	1,504.81	41.56	37.209		
5,800.00	5,783.21	5,548.81	5,366.41	21.10	31.26	87.81	154.17	1,349.35	1,574.82	1,532.43	42.40	37.145		
5,900.00	5,866.49	5,630.52	5,445.10	21.55	31.74	85.64	157.38	1,371.14	1,602.73	1,559.45	43.28	37.028		
6,000.00	5,938.95	5,702.45	5,514.37	22.06	32.17	84.02	160.21	1,390.32	1,630.57	1,586.34	44.23	36.863		
6,100.00	5,998.39	5,779.81	5,588.79	22.64	32.64	83.00	164.46	1,410.94	1,658.81	1,613.42	45.38	36.551		
6,200.00	6,043.00	5,889.49	5,692.12	23.31	33.30	83.04	186.57	1,439.61	1,686.19	1,639.26	46.93	35.929		
6,300.00	6,071.42	6,125.83	5,890.38	24.06	34.65	86.16	299.13	1,494.86	1,710.30	1,661.03	49.27	34.712		
6,400.00	6,082.79	6,484.27	6,067.25	24.89	36.48	89.59	599.91	1,544.83	1,724.23	1,672.53	51.70	33.351		
6,500.00	6,083.00	6,700.04	6,083.00	25.78	37.56	90.00	814.30	1,549.91	1,724.72	1,670.99	53.73	32.100		
6,600.00	6,083.00	6,800.04	6,083.00	26.77	38.14	90.00	914.30	1,550.25	1,724.72	1,669.08	55.64	30.998		
6,700.00	6,083.00	6,900.04	6,083.00	27.83	38.78	90.00	1,014.30	1,550.59	1,724.72	1,667.02	57.70	29.889		
6,800.00	6,083.00	7,000.04	6,083.00	28.96	39.50	90.00	1,114.30	1,550.93	1,724.72	1,664.81	59.91	28.789		
6,900.00	6,083.00	7,100.04	6,083.00	30.15	40.28	90.00	1,214.30	1,551.27	1,724.72	1,662.48	62.24	27.712		
7,000.00	6,083.00	7,200.04	6,083.00	31.40	41.13	90.00	1,314.30	1,551.60	1,724.72	1,660.04	64.68	26.667		
7,100.00	6,083.00	7,300.04	6,083.00	32.70	42.03	90.00	1,414.30	1,551.94	1,724.71	1,657.50	67.21	25.660		
7,200.00	6,083.00	7,400.04	6,083.00	34.04	43.00	90.00	1,514.30	1,552.28	1,724.71	1,654.87	69.84	24.695		
7,300.00	6,083.00	7,500.04	6,083.00	35.42	44.03	90.00	1,614.30	1,552.62	1,724.71	1,652.17	72.54	23.775		
7,400.00	6,083.00	7,600.04	6,083.00	36.83	45.10	90.00	1,714.30	1,552.96	1,724.71	1,649.39	75.32	22.899		
7,500.00	6,083.00	7,700.04	6,083.00	38.27	46.23	90.00	1,814.30	1,553.29	1,724.71	1,646.55	78.15	22.068		
7,600.00	6,083.00	7,800.04	6,083.00	39.74	47.40	90.00	1,914.30	1,553.63	1,724.71	1,643.66	81.05	21.281		
7,700.00	6,083.00	7,900.04	6,083.00	41.23	48.61	90.00	2,014.30	1,553.97	1,724.70	1,640.71	83.99	20.535		
7,800.00	6,083.00	8,000.04	6,083.00	42.75	49.86	90.00	2,114.30	1,554.31	1,724.70	1,637.73	86.98	19.829		
7,900.00	6,083.00	8,100.04	6,083.00	44.28	51.14	90.00	2,214.29	1,554.65	1,724.70	1,634.70	90.00	19.162		
8,000.00	6,083.00	8,200.04	6,083.00	45.83	52.46	90.00	2,314.29	1,554.99	1,724.70	1,631.63	93.07	18.531		
8,100.00	6,083.00	8,300.04	6,083.00	47.40	53.81	90.00	2,414.29	1,555.32	1,724.70	1,628.53	96.17	17.934		
8,200.00	6,083.00	8,400.04	6,083.00	48.98	55.18	90.00	2,514.29	1,555.66	1,724.70	1,625.40	99.30	17.369		
8,300.00	6,083.00	8,500.04	6,083.00	50.57	56.58	90.00	2,614.29	1,556.00	1,724.69	1,622.24	102.45	16.834		
8,400.00	6,083.00	8,600.04	6,083.00	52.18	58.00	90.00	2,714.29	1,556.34	1,724.69	1,619.06	105.63	16.327		
8,500.00	6,083.00	8,700.04	6,083.00	53.79	59.44	90.00	2,814.29	1,556.68	1,724.69	1,615.86	108.84	15.847		
8,600.00	6,083.00	8,800.04	6,083.00	55.42	60.90	90.00	2,914.29	1,557.02	1,724.69	1,612.63	112.06	15.391		
8,700.00	6,083.00	8,900.04	6,083.00	57.05	62.38	90.00	3,014.29	1,557.35	1,724.69	1,609.39	115.30	14.958		
8,800.00	6,083.00	9,000.04	6,083.00	58.70	63.88	90.00	3,114.29	1,557.69	1,724.68	1,606.12	118.56	14.547		
8,900.00	6,083.00	9,100.04	6,083.00	60.35	65.39	90.00	3,214.29	1,558.03	1,724.68	1,602.85	121.84	14.156		
9,000.00	6,083.00	9,200.04	6,083.00	62.00	66.91	90.00	3,314.29	1,558.37	1,724.68	1,599.55	125.13	13.783		
9,100.00	6,083.00	9,300.04	6,083.00	63.66	68.45	90.00	3,414.29	1,558.71	1,724.68	1,596.25	128.43	13.429		
9,200.00	6,083.00	9,400.04	6,083.00	65.33	70.00	90.00	3,514.29	1,559.04	1,724.68	1,592.93	131.75	13.090		
9,300.00	6,083.00	9,500.04	6,083.00	67.01	71.56	90.00	3,614.29	1,559.38	1,724.68	1,589.60	135.08	12.768		
9,400.00	6,083.00	9,600.04	6,083.00	68.69	73.13	90.00	3,714.29	1,559.72	1,724.67	1,586.25	138.42	12.460		
9,500.00	6,083.00	9,700.04	6,083.00	70.37	74.71	90.00	3,814.29	1,560.06	1,724.67	1,582.90	141.77	12.165		
9,600.00	6,083.00	9,800.04	6,083.00	72.06	76.30	90.00	3,914.29	1,560.40	1,724.67	1,579.54	145.13	11.884		
9,700.00	6,083.00	9,900.04	6,083.00	73.75	77.90	90.00	4,014.28	1,560.74	1,724.67	1,576.17	148.50	11.614		
9,800.00	6,083.00	10,000.04	6,083.00	75.45	79.51	90.00	4,114.28	1,561.07	1,724.67	1,572.79	151.87	11.356		
9,900.00	6,083.00	10,100.04	6,083.00	77.15	81.12	90.00	4,214.28	1,561.41	1,724.67	1,569.41	155.26	11.108		
10,000.00	6,083.00	10,200.04	6,083.00	78.85	82.74	90.00	4,314.28	1,561.75	1,724.66	1,566.02	158.65	10.871		
10,100.00	6,083.00	10,300.04	6,083.00	80.56	84.37	90.00	4,414.28	1,562.09	1,724.66	1,562.62	162.05	10.643		
10,200.00	6,083.00	10,400.04	6,083.00	82.26	86.00	90.00	4,514.28	1,562.43	1,724.66	1,559.21	165.45	10.424		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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		
10,300.00	6,083.00	10,500.04	6,083.00	83.98	87.64	90.00	4,614.28	1,562.77	1,724.66	1,555.80	168.86	10.214		
10,400.00	6,083.00	10,600.04	6,083.00	85.69	89.28	90.00	4,714.28	1,563.10	1,724.66	1,552.38	172.28	10.011		
10,500.00	6,083.00	10,700.04	6,083.00	87.41	90.93	90.00	4,814.28	1,563.44	1,724.66	1,548.96	175.70	9.816		
10,600.00	6,083.00	10,800.04	6,083.00	89.12	92.59	90.00	4,914.28	1,563.78	1,724.65	1,545.53	179.12	9.628		
10,700.00	6,083.00	10,900.04	6,083.00	90.85	94.25	90.00	5,014.28	1,564.12	1,724.65	1,542.10	182.55	9.447		
10,800.00	6,083.00	11,000.04	6,083.00	92.57	95.91	90.00	5,114.28	1,564.46	1,724.65	1,538.66	185.99	9.273		
10,900.00	6,083.00	11,100.04	6,083.00	94.29	97.58	90.00	5,214.28	1,564.79	1,724.65	1,535.22	189.43	9.105		
11,000.00	6,083.00	11,200.04	6,083.00	96.02	99.25	90.00	5,314.28	1,565.13	1,724.65	1,531.78	192.87	8.942		
11,100.00	6,083.00	11,300.04	6,083.00	97.75	100.92	90.00	5,414.28	1,565.47	1,724.65	1,528.33	196.32	8.785		
11,200.00	6,083.00	11,400.04	6,083.00	99.48	102.60	90.00	5,514.28	1,565.81	1,724.64	1,524.88	199.77	8.633		
11,300.00	6,083.00	11,500.04	6,083.00	101.21	104.28	90.00	5,614.28	1,566.15	1,724.64	1,521.42	203.22	8.487		
11,400.00	6,083.00	11,600.04	6,083.00	102.94	105.97	90.00	5,714.27	1,566.49	1,724.64	1,517.96	206.68	8.345		
11,500.00	6,083.00	11,700.04	6,083.00	104.67	107.65	90.00	5,814.27	1,566.82	1,724.64	1,514.50	210.14	8.207		
11,600.00	6,083.00	11,800.04	6,083.00	106.41	109.35	90.00	5,914.27	1,567.16	1,724.64	1,511.04	213.60	8.074		
11,700.00	6,083.00	11,900.04	6,083.00	108.15	111.04	90.00	6,014.27	1,567.50	1,724.64	1,507.57	217.06	7.945		
11,800.00	6,083.00	12,000.04	6,083.00	109.88	112.73	90.00	6,114.27	1,567.84	1,724.63	1,504.10	220.53	7.820		
11,900.00	6,083.00	12,100.04	6,083.00	111.62	114.43	90.00	6,214.27	1,568.18	1,724.63	1,500.63	224.00	7.699		
12,000.00	6,083.00	12,200.04	6,083.00	113.36	116.13	90.00	6,314.27	1,568.52	1,724.63	1,497.16	227.48	7.582		
12,100.00	6,083.00	12,300.04	6,083.00	115.10	117.84	90.00	6,414.27	1,568.85	1,724.63	1,493.68	230.95	7.468		
12,200.00	6,083.00	12,400.04	6,083.00	116.85	119.54	90.00	6,514.27	1,569.19	1,724.63	1,490.20	234.43	7.357		
12,300.00	6,083.00	12,500.04	6,083.00	118.59	121.25	90.00	6,614.27	1,569.53	1,724.63	1,486.72	237.91	7.249		
12,400.00	6,083.00	12,600.04	6,083.00	120.33	122.96	90.00	6,714.27	1,569.87	1,724.62	1,483.24	241.39	7.145		
12,500.00	6,083.00	12,700.04	6,083.00	122.08	124.67	90.00	6,814.27	1,570.21	1,724.62	1,479.75	244.87	7.043		
12,600.00	6,083.00	12,800.04	6,083.00	123.82	126.38	90.00	6,914.27	1,570.55	1,724.62	1,476.26	248.36	6.944		
12,700.00	6,083.00	12,900.04	6,083.00	125.57	128.09	90.00	7,014.27	1,570.88	1,724.62	1,472.78	251.84	6.848		
12,800.00	6,083.00	13,000.04	6,083.00	127.32	129.81	90.00	7,114.27	1,571.22	1,724.62	1,469.29	255.33	6.754		
12,900.00	6,083.00	13,100.04	6,083.00	129.07	131.53	90.00	7,214.27	1,571.56	1,724.62	1,465.79	258.82	6.663		
13,000.00	6,083.00	13,200.04	6,083.00	130.81	133.24	90.00	7,314.27	1,571.90	1,724.61	1,462.30	262.31	6.575		
13,100.00	6,083.00	13,300.04	6,083.00	132.56	134.97	90.00	7,414.27	1,572.24	1,724.61	1,458.81	265.81	6.488		
13,200.00	6,083.00	13,400.04	6,083.00	134.31	136.69	90.00	7,514.26	1,572.57	1,724.61	1,455.31	269.30	6.404		
13,300.00	6,083.00	13,500.04	6,083.00	136.06	138.41	90.00	7,614.26	1,572.91	1,724.61	1,451.81	272.80	6.322		
13,400.00	6,083.00	13,600.04	6,083.00	137.81	140.13	90.00	7,714.26	1,573.25	1,724.61	1,448.31	276.29	6.242		
13,500.00	6,083.00	13,700.04	6,083.00	139.57	141.86	90.00	7,814.26	1,573.59	1,724.61	1,444.81	279.79	6.164		
13,600.00	6,083.00	13,800.04	6,083.00	141.32	143.59	90.00	7,914.26	1,573.93	1,724.60	1,441.31	283.29	6.088		
13,700.00	6,083.00	13,900.04	6,083.00	143.07	145.32	90.00	8,014.26	1,574.27	1,724.60	1,437.81	286.79	6.013		
13,800.00	6,083.00	14,000.04	6,083.00	144.82	147.04	90.00	8,114.26	1,574.60	1,724.60	1,434.30	290.30	5.941		
13,900.00	6,083.00	14,100.04	6,083.00	146.58	148.77	90.00	8,214.26	1,574.94	1,724.60	1,430.80	293.80	5.870		
14,000.00	6,083.00	14,200.04	6,083.00	148.33	150.51	90.00	8,314.26	1,575.28	1,724.60	1,427.29	297.30	5.801		
14,100.00	6,083.00	14,300.04	6,083.00	150.09	152.24	90.00	8,414.26	1,575.62	1,724.59	1,423.79	300.81	5.733		
14,200.00	6,083.00	14,400.04	6,083.00	151.84	153.97	90.00	8,514.26	1,575.96	1,724.59	1,420.28	304.31	5.667		
14,300.00	6,083.00	14,500.04	6,083.00	153.60	155.71	90.00	8,614.26	1,576.30	1,724.59	1,416.77	307.82	5.603		
14,400.00	6,083.00	14,600.04	6,083.00	155.35	157.44	90.00	8,714.26	1,576.63	1,724.59	1,413.26	311.33	5.539		
14,500.00	6,083.00	14,700.04	6,083.00	157.11	159.18	90.00	8,814.26	1,576.97	1,724.59	1,409.75	314.84	5.478		
14,600.00	6,083.00	14,800.04	6,083.00	158.87	160.91	90.00	8,914.26	1,577.31	1,724.59	1,406.24	318.35	5.417		
14,700.00	6,083.00	14,900.04	6,083.00	160.62	162.65	90.00	9,014.26	1,577.65	1,724.58	1,402.73	321.86	5.358		
14,800.00	6,083.00	15,000.04	6,083.00	162.38	164.39	90.00	9,114.26	1,577.99	1,724.58	1,399.21	325.37	5.300		
14,900.00	6,083.00	15,100.04	6,083.00	164.14	166.13	90.00	9,214.26	1,578.32	1,724.58	1,395.70	328.88	5.244		
15,000.00	6,083.00	15,200.04	6,083.00	165.90	167.87	90.00	9,314.25	1,578.66	1,724.58	1,392.18	332.40	5.188		
15,100.00	6,083.00	15,300.04	6,083.00	167.66	169.61	90.00	9,414.25	1,579.00	1,724.58	1,388.67	335.91	5.134		
15,200.00	6,083.00	15,400.04	6,083.00	169.42	171.35	90.00	9,514.25	1,579.34	1,724.58	1,385.15	339.42	5.081		
15,300.00	6,083.00	15,500.04	6,083.00	171.17	173.09	90.00	9,614.25	1,579.68	1,724.57	1,381.64	342.94	5.029		
15,400.00	6,083.00	15,600.04	6,083.00	172.93	174.83	90.00	9,714.25	1,580.02	1,724.57	1,378.12	346.46	4.978		

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 PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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-20-08 - 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	6,083.00	15,700.04	6,083.00	174.69	176.58	90.00	9,814.25	1,580.35	1,724.57	1,374.60	349.97	4.928	
15,600.00	6,083.00	15,800.04	6,083.00	176.45	178.32	90.00	9,914.25	1,580.69	1,724.57	1,371.08	353.49	4.879	
15,700.00	6,083.00	15,900.04	6,083.00	178.21	180.07	90.00	10,014.25	1,581.03	1,724.57	1,367.56	357.01	4.831	
15,800.00	6,083.00	16,000.04	6,083.00	179.98	181.81	90.00	10,114.25	1,581.37	1,724.57	1,364.04	360.52	4.783	
15,900.00	6,083.00	16,100.04	6,083.00	181.74	183.56	90.00	10,214.25	1,581.71	1,724.56	1,360.52	364.04	4.737	
16,000.00	6,083.00	16,200.04	6,083.00	183.50	185.30	90.00	10,314.25	1,582.05	1,724.56	1,357.00	367.56	4.692	
16,013.13	6,083.00	16,213.18	6,083.00	183.73	185.53	90.00	10,327.38	1,582.09	1,724.56	1,356.54	368.02	4.686 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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' @ 4684.00usft

Offset Depths are relative to Offset Datum

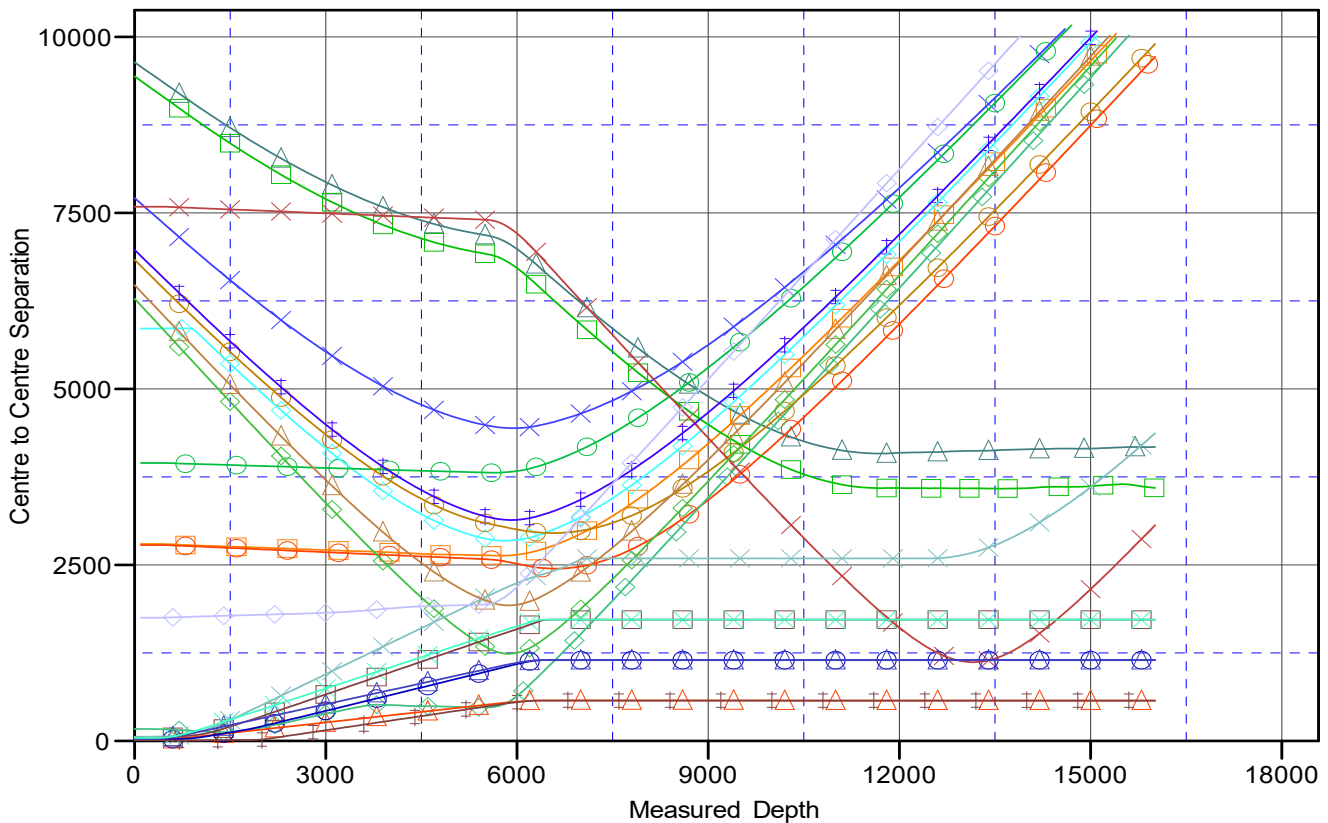
Central Meridian is 105.500000°W

Coordinates are relative to: PRONGHORN K-5 FED 32N-20-05

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.82°

### Ladder Plot



#### LEGEND

- EXIST HZ PRONGHORN T-76XRNB, OMB, FINAL SURVEY V0
- EXIST HZ ROSENBERG 6-6-30-0758BH, OMB, FINAL SURVEY V0
- EXIST HZ PRONGHORN 1144-6HZ, OMB, FINAL SURVEY V0
- ABND VERT BOWMAN 32-1, OMB, Design #1 V0
- EXIST HZ PRONGHORN 1411-4HNB, OMB, FINAL SURVEY V0
- EXIST HZ ROSENBERG 6-6-30-0676BH, OMB, FINAL SURVEY V0
- ABND VERT PRONGHORN 41-6, OMB, Design #1 V0
- EXIST HZ PRONGHORN K-6XRNB, OMB, FINAL SURVEY V0
- EXIST HZ ESTERLING 44-3H, OMB, FINAL SURVEY V0
- ABND VERT FURROW 1, OMB, Design #1 V0
- EXIST HZ PRONGHORN 248-6XRNB, OMB, FINAL SURVEY V0
- PRONGHORN K-5 FED 32N-20-06, OMB, PROPOSAL 1 V0
- EXIST HZ PRONGHORN E-6XRNB, OMB, FINAL SURVEY V0
- PRONGHORN K-5 FED 32N-20-01, OMB, PROPOSAL 1 V0
- EXIST HZ PRONGHORN J-6XRNB, OMB, FINAL SURVEY V0
- ABND VERT PRONGHORN 32-5, OMB, GYRO V0
- PRONGHORN K-5 FED 32N-20-02, OMB, PROPOSAL 2 V0
- PRONGHORN K-5 FED 32N-20-03, OMB, PROPOSAL 2 V0
- PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 2 V0
- PRONGHORN K-5 FED 32N-20-07, OMB, PROPOSAL 1 V0
- PRONGHORN K-5 FED 32N-20-08, OMB, PROPOSAL 1 V0

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

# Civitas Resources

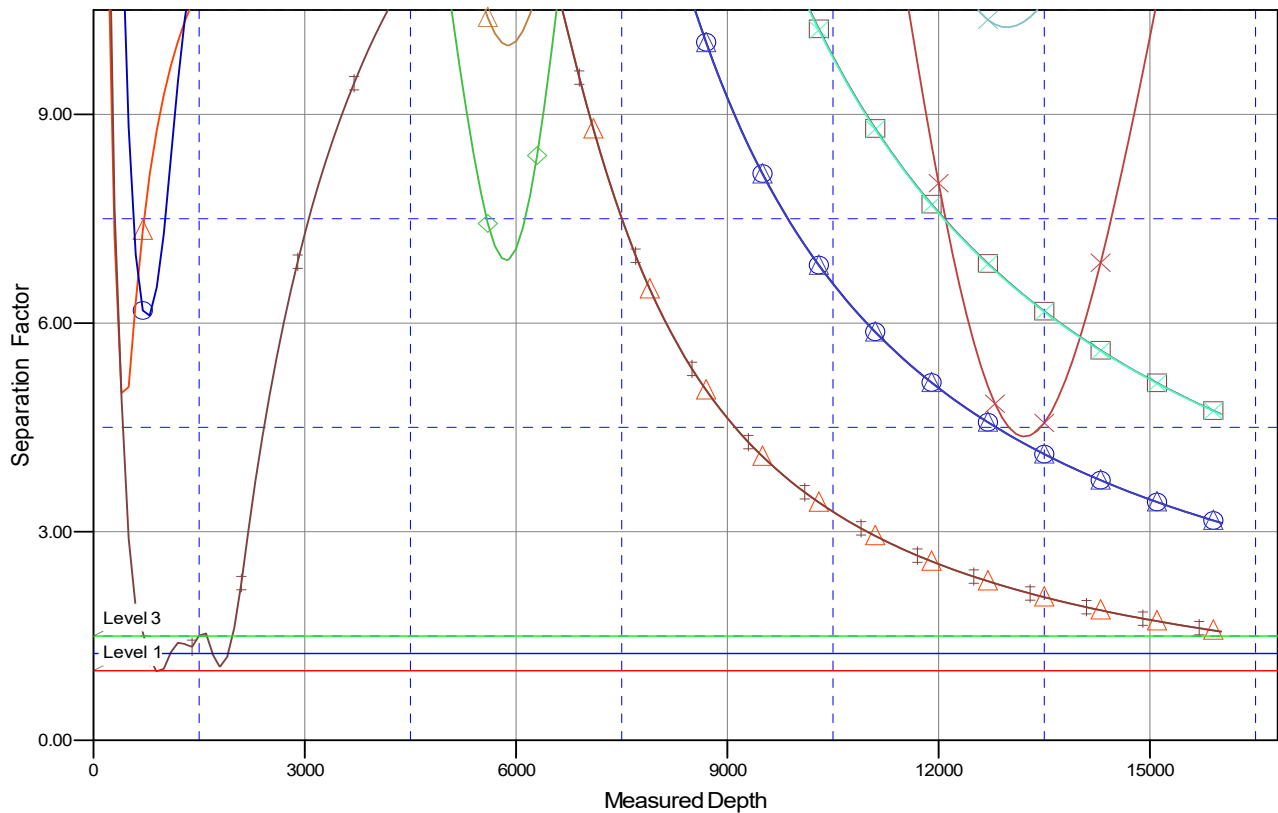
## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-05
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-05	<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' @ 4684.00usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 105.500000°W

Coordinates are relative to: PRONGHORN K-5 FED 32N-20-05  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.82°

### Separation Factor Plot



#### LEGEND

EXIST HZ PRONGHORN T-76XRLNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN K-68XRLNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN J-85XRLNB, OMB, FINAL SURVEY V0
EXIST HZ ROSENBERG 6-8-30-0758BH, OMB, FINAL SURVEY V0	EXIST HZ ESTERLING 44-3H, OMB, FINAL SURVEY V0	ABND VERT PRONGHORN 32-5, OMB, GYRO V0
EXIST HZ PRONGHORN 11-14-5H, OMB, FINAL SURVEY V0	ABND VERT FURROW 1, OMB, Design #1 V0	PRONGHORN K-5 FED 32N-20-02, OMB, PROPOSAL 2 V0
ABND VERT BOWMAN 32-1, OMB, Design #1 V0	EXIST HZ PRONGHORN 248-5XRLNB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-03, OMB, PROPOSAL 2 V0
EXIST HZ PRONGHORN 14-14-8H, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-05, OMB, PROPOSAL 1 V0	PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 2 V0
EXIST HZ ROSENBERG 6-8-30-0758BH, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN E-55XRLNB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-07, OMB, PROPOSAL 1 V0
ABND VERT PRONGHORN 41-5, OMB, Design #1 V0	PRONGHORN K-5 FED 32N-20-01, OMB, PROPOSAL 1 V0	PRONGHORN K-5 FED 32N-20-08, OMB, PROPOSAL 1 V0