

# **CRESTONE PEAK RESOURCES**

**ARAPAHOE COUNTY  
SEC 6-T5S-R64W  
ALAMOSA 5-64 6-1 1BH**

**OWB  
PROPOSAL 1**

## **Anticollision Report**

**29 April, 2022**

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<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>	Maximum center-center distance of 10,000.00 usft	<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>	4/29/2022		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	18,463.70	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 6-T5S-R64W						
ALAMOSA 5-64 5-4-3 1AH - OWB - PROPOSAL 1	8,013.14	8,008.09	101.38	41.66	1.698	CC, ES, SF
ALAMOSA 5-64 5-4-3 1BH - OWB - PROPOSAL 1	200.00	202.42	160.00	159.01	160.315	CC, ES
ALAMOSA 5-64 5-4-3 1BH - OWB - PROPOSAL 1	7,900.00	8,074.96	665.86	606.46	11.209	SF
ALAMOSA 5-64 5-4-3 2AH - OWB - PROPOSAL 1	200.00	202.85	179.96	178.96	180.036	CC, ES
ALAMOSA 5-64 5-4-3 2AH - OWB - PROPOSAL 1	8,800.00	7,500.00	1,486.82	1,423.00	23.298	SF
ALAMOSA 5-64 5-4-3 2BH - OWB - PROPOSAL 1	200.00	203.07	199.81	198.81	199.732	CC, ES
ALAMOSA 5-64 5-4-3 2BH - OWB - PROPOSAL 1	9,500.00	7,422.98	2,351.45	2,274.88	30.713	SF
ALAMOSA 5-64 5-4-3 3AH - OWB - PROPOSAL 1	200.00	203.18	220.10	219.10	219.931	CC, ES
ALAMOSA 5-64 5-4-3 3AH - OWB - PROPOSAL 1	10,100.00	7,238.10	3,285.02	3,197.28	37.442	SF
ALAMOSA 5-64 5-4-3 3BH - OWB - PROPOSAL 1	200.00	196.78	240.06	239.08	245.503	CC, ES
ALAMOSA 5-64 5-4-3 3BH - OWB - PROPOSAL 1	10,800.00	6,958.84	4,124.11	4,022.26	40.493	SF
ALAMOSA 5-64 5-4-3 4AH - OWB - PROPOSAL 1	100.00	96.84	259.91	259.64	969.321	CC, ES
ALAMOSA 5-64 5-4-3 4AH - OWB - PROPOSAL 1	11,400.00	6,614.49	4,911.06	4,799.52	44.029	SF
ALAMOSA 5-64 6-1 2AH - OWB - PROPOSAL 1	200.00	200.10	19.96	18.97	20.167	CC, ES
ALAMOSA 5-64 6-1 2AH - OWB - PROPOSAL 1	18,464.45	18,390.44	610.87	52.96	1.095	Level 2, SF
ALAMOSA 5-64 6-1 2BH - OWB - PROPOSAL 1	200.00	200.24	39.92	38.93	40.314	CC, ES
ALAMOSA 5-64 6-1 2BH - OWB - PROPOSAL 1	18,464.45	18,390.21	1,221.21	661.77	2.183	SF
ALAMOSA 5-64 6-1 3AH - OWB - PROPOSAL 1	200.00	200.52	60.10	59.11	60.630	CC, ES
ALAMOSA 5-64 6-1 3AH - OWB - PROPOSAL 1	18,464.45	18,434.09	1,811.24	1,251.90	3.238	SF
ALAMOSA 5-64 6-1 3BH - OWB - PROPOSAL 1	200.00	200.94	80.06	79.07	80.643	CC, ES
ALAMOSA 5-64 6-1 3BH - OWB - PROPOSAL 1	18,464.45	18,639.84	2,422.43	1,862.80	4.329	SF
ALAMOSA 5-64 6-1 4AH - OWB - PROPOSAL 1	200.00	201.21	99.90	98.91	100.536	CC, ES
ALAMOSA 5-64 6-1 4AH - OWB - PROPOSAL 1	18,464.45	18,931.89	3,033.93	2,473.58	5.414	SF
ALAMOSA 5-64 6-1 4BH - OWB - PROPOSAL 1	200.00	198.31	119.86	118.88	121.897	CC, ES
ALAMOSA 5-64 6-1 4BH - OWB - PROPOSAL 1	18,464.45	19,274.38	3,644.94	3,083.85	6.496	SF
EXIST HZ STATE CHALLENGER 5-65 2-3 3BYH LATER	18,464.45	7,684.80	2,582.10	2,273.43	8.365	CC, ES, SF
EXIST HZ STATE CHALLENGER 5-65 2-3 3BYH LATER	18,464.45	9,110.05	2,256.52	1,981.45	8.203	CC, ES, SF
EXIST HZ STATE ELBERT 1H - OWB - FINAL SURVEY	13,996.71	12,263.00	353.67	101.42	1.402	Level 3, CC
EXIST HZ STATE ELBERT 1H - OWB - FINAL SURVEY	14,000.00	12,263.00	353.68	100.69	1.398	Level 3, ES
EXIST HZ STATE ELBERT 1H - OWB - FINAL SURVEY	14,100.00	12,263.00	368.44	102.96	1.388	Level 3, SF

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<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 1AH - 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	2.07	-2.07	0.00	0.00	-156.18	-128.22	-56.60	140.16					
100.00	100.00	102.07	97.93	0.14	0.14	-156.18	-128.22	-56.60	140.16	139.88	0.28	500.814		
200.00	200.00	202.07	197.93	0.49	0.50	-156.18	-128.22	-56.60	140.16	139.16	1.00	140.607		
300.00	299.98	302.09	297.91	0.85	0.86	144.54	-128.22	-56.60	141.58	139.86	1.71	82.702		
400.00	399.84	402.23	397.77	1.21	1.22	145.69	-128.22	-56.60	145.87	143.44	2.43	59.959		
500.00	499.45	502.62	497.38	1.58	1.58	147.45	-128.22	-56.60	153.15	149.99	3.16	48.447		
600.00	598.75	603.32	596.68	1.97	1.94	149.62	-128.22	-56.60	163.26	159.36	3.90	41.898		
700.00	697.98	695.91	695.91	2.37	2.27	151.67	-128.22	-56.60	174.04	169.44	4.60	37.866		
800.00	797.22	800.02	800.00	2.77	2.65	153.92	-126.49	-56.82	183.75	178.41	5.33	34.446		
900.00	896.46	904.43	904.26	3.17	3.02	156.71	-120.99	-57.52	191.05	184.98	6.07	31.458		
1,000.00	995.69	1,003.97	1,003.53	3.58	3.38	159.58	-113.80	-58.43	197.38	190.58	6.80	29.035		
1,100.00	1,094.93	1,103.30	1,102.59	3.98	3.74	162.26	-106.62	-59.34	204.17	196.65	7.52	27.140		
1,200.00	1,194.16	1,202.62	1,201.66	4.39	4.10	164.76	-99.44	-60.25	211.38	203.13	8.25	25.626		
1,300.00	1,293.40	1,301.95	1,300.72	4.80	4.47	167.10	-92.26	-61.16	218.97	209.99	8.98	24.397		
1,400.00	1,392.64	1,401.27	1,399.78	5.21	4.84	169.27	-85.08	-62.08	226.90	217.19	9.70	23.385		
1,500.00	1,491.87	1,500.60	1,498.84	5.62	5.20	171.30	-77.90	-62.99	235.13	224.70	10.43	22.541		
1,600.00	1,591.11	1,599.92	1,597.90	6.03	5.57	173.19	-70.72	-63.90	243.63	232.47	11.16	21.830		
1,700.00	1,690.34	1,700.75	1,696.96	6.44	5.95	174.95	-63.54	-64.81	252.39	240.49	11.90	21.214		
1,800.00	1,789.58	1,801.43	1,796.02	6.85	6.32	176.59	-56.37	-65.72	261.36	248.73	12.63	20.687		
1,900.00	1,888.82	1,902.11	1,895.08	7.26	6.70	178.13	-49.19	-66.63	270.54	257.16	13.37	20.232		
2,000.00	1,988.05	2,002.78	1,994.14	7.67	7.07	179.56	-42.01	-67.54	279.89	265.78	14.11	19.835		
2,100.00	2,087.29	2,103.46	2,093.20	8.08	7.45	-179.10	-34.83	-68.46	289.41	274.56	14.85	19.487		
2,200.00	2,186.52	2,204.13	2,192.26	8.49	7.82	-177.85	-27.65	-69.37	299.07	283.48	15.59	19.180		
2,300.00	2,285.76	2,304.81	2,291.32	8.90	8.20	-176.68	-20.47	-70.28	308.87	292.54	16.33	18.909		
2,400.00	2,385.00	2,405.48	2,390.39	9.31	8.57	-175.57	-13.29	-71.19	318.79	301.71	17.08	18.667		
2,500.00	2,484.23	2,506.16	2,489.45	9.72	8.95	-174.54	-6.11	-72.10	328.82	311.00	17.82	18.450		
2,600.00	2,583.47	2,606.83	2,588.51	10.13	9.33	-173.57	1.07	-73.01	338.95	320.38	18.57	18.255		
2,700.00	2,682.70	2,707.51	2,687.57	10.54	9.70	-172.65	8.24	-73.92	349.17	329.86	19.31	18.080		
2,800.00	2,781.94	2,808.18	2,786.63	10.95	10.08	-171.78	15.42	-74.84	359.48	339.42	20.06	17.921		
2,900.00	2,881.18	2,908.86	2,885.69	11.36	10.46	-170.97	22.60	-75.75	369.86	349.05	20.81	17.777		
3,000.00	2,980.41	3,009.53	2,984.75	11.77	10.83	-170.19	29.78	-76.66	380.31	358.76	21.55	17.645		
3,100.00	3,079.65	3,089.79	3,083.81	12.19	11.13	-169.46	36.96	-77.57	390.83	368.60	22.23	17.585		
3,200.00	3,178.88	3,189.12	3,182.87	12.60	11.51	-168.77	44.14	-78.48	401.40	378.43	22.97	17.476		
3,300.00	3,278.12	3,288.44	3,281.93	13.01	11.88	-168.11	51.32	-79.39	412.03	388.32	23.71	17.376		
3,400.00	3,377.36	3,387.77	3,380.99	13.42	12.25	-167.49	58.50	-80.30	422.72	398.26	24.46	17.284		
3,500.00	3,476.59	3,487.09	3,480.06	13.83	12.62	-166.90	65.68	-81.22	433.45	408.25	25.20	17.199		
3,600.00	3,575.83	3,586.42	3,579.12	14.24	13.00	-166.33	72.85	-82.13	444.22	418.27	25.95	17.120		
3,700.00	3,675.06	3,685.74	3,678.18	14.65	13.37	-165.79	80.03	-83.04	455.04	428.34	26.69	17.047		
3,800.00	3,774.30	3,785.07	3,777.24	15.06	13.74	-165.28	87.21	-83.95	465.89	438.45	27.44	16.979		
3,900.00	3,873.53	3,884.39	3,876.30	15.47	14.11	-164.79	94.39	-84.86	476.78	448.59	28.19	16.915		
4,000.00	3,972.77	3,983.72	3,975.36	15.89	14.48	-164.32	101.57	-85.77	487.70	458.76	28.93	16.856		
4,100.00	4,072.01	4,083.04	4,074.42	16.30	14.86	-163.88	108.75	-86.68	498.65	468.97	29.68	16.801		
4,200.00	4,171.24	4,182.37	4,173.48	16.71	15.23	-163.45	115.93	-87.60	509.63	479.20	30.43	16.749		
4,300.00	4,270.48	4,281.69	4,272.54	17.12	15.60	-163.04	123.11	-88.51	520.63	489.46	31.17	16.701		
4,400.00	4,369.71	4,381.02	4,371.60	17.53	15.97	-162.65	130.29	-89.42	531.67	499.74	31.92	16.655		
4,500.00	4,468.95	4,480.34	4,470.66	17.94	16.35	-162.27	137.46	-90.33	542.72	510.05	32.67	16.612		
4,600.00	4,568.19	4,579.66	4,569.72	18.35	16.72	-161.91	144.64	-91.24	553.80	520.38	33.42	16.572		
4,700.00	4,667.42	4,678.99	4,668.79	18.76	17.09	-161.56	151.82	-92.15	564.90	530.73	34.17	16.534		
4,800.00	4,766.66	4,778.31	4,767.85	19.18	17.47	-161.23	159.00	-93.06	576.02	541.10	34.91	16.498		
4,900.00	4,865.89	4,877.64	4,866.91	19.59	17.84	-160.90	166.18	-93.98	587.16	551.49	35.66	16.464		
5,000.00	4,965.13	4,976.96	4,965.97	20.00	18.21	-160.59	173.36	-94.89	598.31	561.90	36.41	16.432		
5,100.00	5,064.37	5,076.29	5,065.03	20.41	18.58	-160.30	180.54	-95.80	609.48	572.32	37.16	16.401		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 1AH - 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	5,163.60	5,175.61	5,164.09	20.82	18.96	-160.01	187.72	-96.71	620.67	582.76	37.91	16.372		
5,300.00	5,262.84	5,274.94	5,263.15	21.23	19.33	-159.73	194.90	-97.62	631.87	593.21	38.66	16.345		
5,400.00	5,362.07	5,374.26	5,362.21	21.64	19.70	-159.46	202.07	-98.53	643.09	603.68	39.41	16.319		
5,500.00	5,461.31	5,473.59	5,461.27	22.05	20.07	-159.20	209.25	-99.44	654.32	614.16	40.16	16.294		
5,600.00	5,560.55	5,572.91	5,560.33	22.47	20.45	-158.95	216.43	-100.36	665.56	624.65	40.91	16.270		
5,700.00	5,659.78	5,672.24	5,659.39	22.88	20.82	-158.71	223.61	-101.27	676.82	635.16	41.66	16.247		
5,800.00	5,759.02	5,771.56	5,758.45	23.29	21.19	-158.48	230.79	-102.18	688.08	645.68	42.41	16.226		
5,900.00	5,858.25	5,870.89	5,857.52	23.70	21.57	-158.25	237.97	-103.09	699.36	656.20	43.16	16.205		
6,000.00	5,957.49	5,970.21	5,956.58	24.11	21.94	-158.03	245.15	-104.00	710.65	666.74	43.91	16.185		
6,100.00	6,056.73	6,069.54	6,055.64	24.52	22.31	-157.82	252.33	-104.91	721.95	677.29	44.66	16.166		
6,200.00	6,155.96	6,168.86	6,154.70	24.93	22.68	-157.62	259.51	-105.82	733.25	687.85	45.41	16.148		
6,300.00	6,255.20	6,268.19	6,253.76	25.34	23.06	-157.42	266.68	-106.74	744.57	698.41	46.16	16.131		
6,400.00	6,354.43	6,367.51	6,352.82	25.76	23.43	-157.22	273.86	-107.65	755.89	708.99	46.91	16.114		
6,500.00	6,453.67	6,466.84	6,451.88	26.17	23.80	-157.04	281.04	-108.56	767.23	719.57	47.66	16.098		
6,600.00	6,552.91	6,566.16	6,550.94	26.58	24.18	-156.85	288.22	-109.47	778.57	730.16	48.41	16.083		
6,700.00	6,652.14	6,665.49	6,650.00	26.99	24.55	-156.68	295.40	-110.38	789.92	740.76	49.16	16.068		
6,800.00	6,751.38	6,764.81	6,749.06	27.40	24.92	-156.51	302.58	-111.29	801.27	751.36	49.91	16.054		
6,900.00	6,850.61	6,864.14	6,848.12	27.81	25.29	-156.34	309.76	-112.20	812.64	761.97	50.66	16.040		
7,000.00	6,949.85	6,963.46	6,947.18	28.22	25.67	-156.18	316.94	-113.12	824.00	772.59	51.41	16.027		
7,100.00	7,049.09	8,402.62	7,799.00	28.64	34.65	161.12	372.61	715.63	753.41	727.07	26.34	28.603		
7,200.00	7,148.32	8,413.22	7,799.00	29.05	34.82	157.15	372.53	726.23	654.86	627.95	26.91	24.337		
7,300.00	7,247.89	8,418.12	7,799.00	29.42	34.89	-163.35	372.49	731.13	556.32	528.69	27.63	20.135		
7,400.00	7,346.79	8,405.93	7,799.00	29.67	34.70	-152.28	372.58	718.94	458.99	430.40	28.59	16.054		
7,500.00	7,442.07	8,376.72	7,799.00	29.83	34.27	-154.35	372.79	689.73	366.21	336.16	30.06	12.184		
7,600.00	7,530.81	8,331.37	7,799.00	29.92	33.60	-152.79	373.12	644.38	281.51	248.97	32.54	8.652		
7,700.00	7,610.33	8,271.26	7,799.00	29.97	32.77	-147.67	373.56	584.27	208.78	171.86	36.93	5.654		
7,800.00	7,678.21	8,201.79	7,799.00	30.00	31.88	-138.12	374.09	511.22	152.58	108.38	44.20	3.452		
7,900.00	7,732.39	8,110.86	7,798.01	30.08	30.85	-122.33	374.65	423.90	117.02	63.82	53.20	2.200		
8,000.00	7,771.23	8,019.53	7,785.45	30.28	29.95	-99.08	374.39	333.53	101.60	42.06	59.54	1.706		
8,013.14	7,775.12	8,008.09	7,782.87	30.32	29.85	-95.80	374.29	322.38	101.38	41.66	59.72	1.698 CC, ES, SF		
8,100.00	7,793.53	7,935.03	7,761.21	30.66	29.26	-75.21	373.22	252.67	110.21	53.19	57.02	1.933		
8,200.00	7,799.00	7,855.73	7,727.92	31.25	28.75	-57.57	371.33	180.80	136.02	84.05	51.97	2.617		
8,300.00	7,799.00	7,785.38	7,690.34	32.08	28.43	-46.49	369.04	121.41	176.47	127.40	49.07	3.596		
8,400.00	7,799.00	7,725.63	7,652.93	33.13	28.22	-38.78	366.67	74.92	230.75	182.32	48.43	4.764		
8,500.00	7,799.00	7,675.30	7,617.81	34.37	28.07	-33.56	364.39	38.96	295.22	246.21	49.01	6.024		
8,600.00	7,799.00	7,632.93	7,585.90	35.78	27.96	-29.94	362.28	11.17	367.07	317.10	49.97	7.346		
8,700.00	7,799.00	7,600.00	7,559.74	37.33	27.87	-27.55	360.53	-8.74	444.35	393.27	51.08	8.699		
8,800.00	7,799.00	7,566.72	7,532.19	39.00	27.78	-25.46	358.67	-27.30	525.65	473.84	51.80	10.147		
8,900.00	7,799.00	7,550.00	7,517.95	40.79	27.73	-24.51	357.70	-36.01	610.20	557.39	52.81	11.554		
9,000.00	7,799.00	7,518.28	7,490.27	42.67	27.64	-22.89	355.81	-51.39	696.89	643.75	53.14	13.115		
9,100.00	7,799.00	7,500.00	7,473.95	44.63	27.58	-22.04	354.69	-59.54	785.63	731.97	53.66	14.642		
9,200.00	7,799.00	7,481.77	7,457.42	46.66	27.53	-21.26	353.55	-67.15	875.90	821.86	54.04	16.207		
9,300.00	7,799.00	7,466.77	7,443.65	48.76	27.48	-20.65	352.59	-73.01	967.43	913.04	54.38	17.788		
9,400.00	7,799.00	7,450.00	7,428.08	50.92	27.43	-20.02	351.51	-79.13	1,059.99	1,005.37	54.63	19.404		
9,500.00	7,799.00	7,450.00	7,428.08	53.12	27.43	-20.02	351.51	-79.13	1,153.48	1,098.48	55.00	20.971		
9,600.00	7,799.00	7,431.01	7,410.24	55.37	27.37	-19.35	350.26	-85.50	1,247.52	1,192.40	55.12	22.634		
9,700.00	7,799.00	7,421.45	7,401.18	57.65	27.34	-19.03	349.63	-88.49	1,342.25	1,286.96	55.29	24.276		
9,800.00	7,799.00	7,400.00	7,380.68	59.97	27.27	-18.35	348.19	-94.63	1,437.71	1,382.37	55.35	25.976		
9,900.00	7,799.00	7,400.00	7,380.68	62.32	27.27	-18.35	348.19	-94.63	1,533.25	1,477.71	55.54	27.605		
10,000.00	7,799.00	7,400.00	7,380.68	64.69	27.27	-18.35	348.19	-94.63	1,629.32	1,573.62	55.71	29.248		
10,100.00	7,799.00	7,400.00	7,380.68	67.09	27.27	-18.35	348.19	-94.63	1,725.84	1,670.00	55.84	30.905		
10,200.00	7,799.00	7,400.00	7,380.68	69.51	27.27	-18.35	348.19	-94.63	1,822.74	1,766.78	55.96	32.572		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 1AH - 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	7,799.00	7,379.58	7,360.96	71.95	27.20	-17.75	346.80	-99.76	1,919.48	1,863.51	55.97	34.294		
10,400.00	7,799.00	7,374.43	7,355.96	74.41	27.18	-17.61	346.45	-100.95	2,016.71	1,960.66	56.05	35.982		
10,500.00	7,799.00	7,369.65	7,351.31	76.89	27.17	-17.48	346.12	-102.00	2,114.14	2,058.02	56.12	37.674		
10,600.00	7,799.00	7,350.00	7,332.11	79.37	27.10	-16.96	344.75	-105.94	2,212.01	2,155.88	56.13	39.412		
10,700.00	7,799.00	7,350.00	7,332.11	81.87	27.10	-16.96	344.75	-105.94	2,309.67	2,253.47	56.20	41.095		
10,800.00	7,799.00	7,350.00	7,332.11	84.39	27.10	-16.96	344.75	-105.94	2,407.52	2,351.25	56.27	42.782		
10,900.00	7,799.00	7,350.00	7,332.11	86.91	27.10	-16.96	344.75	-105.94	2,505.55	2,449.21	56.34	44.472		
11,000.00	7,799.00	7,350.00	7,332.11	89.44	27.10	-16.96	344.75	-105.94	2,603.72	2,547.32	56.40	46.165		
11,100.00	7,799.00	7,350.00	7,332.11	91.99	27.10	-16.96	344.75	-105.94	2,702.03	2,645.57	56.46	47.860		
11,200.00	7,799.00	7,350.00	7,332.11	94.54	27.10	-16.96	344.75	-105.94	2,800.45	2,743.94	56.51	49.556		
11,300.00	7,799.00	7,350.00	7,332.11	97.10	27.10	-16.96	344.75	-105.94	2,898.99	2,842.43	56.56	51.253		
11,400.00	7,799.00	7,350.00	7,332.11	99.66	27.10	-16.96	344.75	-105.94	2,997.62	2,941.01	56.61	52.951		
11,500.00	7,799.00	7,350.00	7,332.11	102.24	27.10	-16.96	344.75	-105.94	3,096.34	3,039.68	56.66	54.649		
11,600.00	7,799.00	7,350.00	7,332.11	104.82	27.10	-16.96	344.75	-105.94	3,195.14	3,138.43	56.71	56.346		
11,700.00	7,799.00	7,350.00	7,332.11	107.40	27.10	-16.96	344.75	-105.94	3,294.01	3,237.26	56.75	58.044		
11,800.00	7,799.00	7,329.11	7,311.56	109.99	27.03	-16.45	343.29	-109.40	3,392.50	3,335.75	56.76	59.773		
11,900.00	7,799.00	7,327.05	7,309.53	112.58	27.02	-19.45	343.15	-109.70	3,491.41	3,434.61	56.80	61.471		
12,000.00	7,799.00	7,325.05	7,307.56	115.17	27.01	-35.98	343.01	-109.98	3,590.16	3,533.33	56.84	63.165		
12,100.00	7,799.00	7,323.11	7,305.63	117.74	27.01	-47.85	342.87	-110.25	3,688.47	3,631.60	56.88	64.851		
12,200.00	7,799.00	7,321.21	7,303.76	120.27	27.00	-56.10	342.73	-110.51	3,786.11	3,729.20	56.91	66.526		
12,300.00	7,799.00	7,300.00	7,282.75	122.76	26.93	-61.04	341.23	-112.96	3,883.25	3,826.34	56.92	68.228		
12,400.00	7,799.00	7,300.00	7,282.75	125.19	26.93	-65.46	341.23	-112.96	3,978.88	3,921.93	56.95	69.864		
12,500.00	7,799.00	7,300.00	7,282.75	127.57	26.93	-68.79	341.23	-112.96	4,073.27	4,016.28	56.99	71.479		
12,600.00	7,799.00	7,300.00	7,282.75	129.88	26.93	-70.36	341.23	-112.96	4,166.42	4,109.40	57.02	73.073		
12,700.00	7,799.00	7,300.00	7,282.75	132.19	26.93	-70.36	341.23	-112.96	4,259.59	4,202.54	57.05	74.659		
12,800.00	7,799.00	7,300.00	7,282.75	134.50	26.93	-70.36	341.23	-112.96	4,353.06	4,295.97	57.09	76.246		
12,900.00	7,799.00	7,300.00	7,282.75	136.83	26.93	-70.36	341.23	-112.96	4,446.82	4,389.69	57.13	77.834		
13,000.00	7,799.00	7,300.00	7,282.75	139.16	26.93	-70.36	341.23	-112.96	4,540.84	4,483.67	57.17	79.421		
13,100.00	7,799.00	7,300.00	7,282.75	141.50	26.93	-70.36	341.23	-112.96	4,635.12	4,577.90	57.22	81.009		
13,200.00	7,799.00	7,300.00	7,282.75	143.84	26.93	-70.36	341.23	-112.96	4,729.63	4,672.37	57.26	82.596		
13,300.00	7,799.00	7,300.00	7,282.75	146.19	26.93	-70.36	341.23	-112.96	4,824.36	4,767.05	57.31	84.183		
13,400.00	7,799.00	7,300.00	7,282.75	148.55	26.93	-70.36	341.23	-112.96	4,919.30	4,861.94	57.36	85.769		
13,500.00	7,799.00	7,300.00	7,282.75	150.92	26.93	-70.36	341.23	-112.96	5,014.43	4,957.03	57.40	87.354		
13,600.00	7,799.00	7,300.00	7,282.75	153.29	26.93	-70.36	341.23	-112.96	5,109.76	5,052.30	57.45	88.937		
13,700.00	7,799.00	7,300.00	7,282.75	155.66	26.93	-70.36	341.23	-112.96	5,205.25	5,147.75	57.50	90.520		
13,800.00	7,799.00	7,300.00	7,282.75	158.04	26.93	-70.36	341.23	-112.96	5,300.92	5,243.36	57.56	92.101		
13,900.00	7,799.00	7,300.00	7,282.75	160.43	26.93	-70.36	341.23	-112.96	5,396.74	5,339.13	57.61	93.680		
14,000.00	7,799.00	7,300.00	7,282.75	162.82	26.93	-70.36	341.23	-112.96	5,492.71	5,435.05	57.66	95.257		
14,100.00	7,799.00	7,300.00	7,282.75	165.21	26.93	-70.36	341.23	-112.96	5,588.82	5,531.10	57.72	96.833		
14,200.00	7,799.00	7,300.00	7,282.75	167.61	26.93	-70.36	341.23	-112.96	5,685.06	5,627.29	57.77	98.406		
14,300.00	7,799.00	7,300.00	7,282.75	170.02	26.93	-70.36	341.23	-112.96	5,781.44	5,723.61	57.83	99.977		
14,400.00	7,799.00	7,300.00	7,282.75	172.42	26.93	-70.36	341.23	-112.96	5,877.93	5,820.04	57.88	101.545		
14,500.00	7,799.00	7,300.00	7,282.75	174.84	26.93	-70.36	341.23	-112.96	5,974.54	5,916.60	57.94	103.112		
14,600.00	7,799.00	7,300.00	7,282.75	177.28	26.93	-66.33	341.23	-112.96	6,071.70	6,013.70	58.00	104.682		
14,700.00	7,799.00	7,300.00	7,282.75	179.78	26.93	-59.08	341.23	-112.96	6,169.94	6,111.88	58.06	106.268		
14,800.00	7,799.00	7,300.00	7,282.75	182.34	26.93	-46.19	341.23	-112.96	6,268.95	6,210.83	58.12	107.865		
14,900.00	7,799.00	7,300.00	7,282.75	184.94	26.93	-21.91	341.23	-112.96	6,368.43	6,310.26	58.18	109.469		
15,000.00	7,799.00	7,300.00	7,282.75	187.56	26.93	13.99	341.23	-112.96	6,468.10	6,409.87	58.23	111.074		
15,100.00	7,799.00	7,300.00	7,282.75	190.21	26.93	42.30	341.23	-112.96	6,567.67	6,509.38	58.29	112.675		
15,200.00	7,799.00	7,300.00	7,282.75	192.85	26.93	50.14	341.23	-112.96	6,666.98	6,608.63	58.35	114.268		
15,300.00	7,799.00	7,300.00	7,282.75	195.50	26.93	50.14	341.23	-112.96	6,766.26	6,707.86	58.40	115.854		
15,400.00	7,799.00	7,300.00	7,282.75	198.16	26.93	50.14	341.23	-112.96	6,865.57	6,807.10	58.46	117.437		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 1AH - 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		
15,500.00	7,799.00	7,300.00	7,282.75	200.81	26.93	50.14	341.23	-112.96	6,964.89	6,906.37	58.52	119.015		
15,600.00	7,799.00	7,300.00	7,282.75	203.46	26.93	50.14	341.23	-112.96	7,064.23	7,005.65	58.58	120.589		
15,700.00	7,799.00	7,300.00	7,282.75	206.11	26.93	50.14	341.23	-112.96	7,163.60	7,104.95	58.64	122.158		
15,800.00	7,799.00	7,300.00	7,282.75	208.77	26.93	50.14	341.23	-112.96	7,262.98	7,204.27	58.70	123.723		
15,900.00	7,799.00	7,300.00	7,282.75	211.43	26.93	50.14	341.23	-112.96	7,362.37	7,303.61	58.77	125.284		
16,000.00	7,799.00	7,300.00	7,282.75	214.08	26.93	50.14	341.23	-112.96	7,461.78	7,402.96	58.83	126.839		
16,100.00	7,799.00	7,300.00	7,282.75	216.74	26.93	50.14	341.23	-112.96	7,561.21	7,502.32	58.89	128.391		
16,200.00	7,799.00	7,300.00	7,282.75	219.40	26.93	50.14	341.23	-112.96	7,660.65	7,601.70	58.96	129.937		
16,300.00	7,799.00	7,300.00	7,282.75	222.06	26.93	50.14	341.23	-112.96	7,760.11	7,701.09	59.02	131.479		
16,400.00	7,799.00	7,300.00	7,282.75	224.72	26.93	50.14	341.23	-112.96	7,859.58	7,800.50	59.09	133.016		
16,500.00	7,799.00	7,300.00	7,282.75	227.38	26.93	50.14	341.23	-112.96	7,959.07	7,899.91	59.15	134.548		
16,600.00	7,799.00	7,300.00	7,282.75	230.04	26.93	50.14	341.23	-112.96	8,058.56	7,999.34	59.22	136.076		
16,700.00	7,799.00	7,300.00	7,282.75	232.70	26.93	50.14	341.23	-112.96	8,158.07	8,098.78	59.29	137.599		
16,800.00	7,799.00	7,300.00	7,282.75	235.36	26.93	50.14	341.23	-112.96	8,257.59	8,198.24	59.36	139.116		
16,900.00	7,799.00	7,300.00	7,282.75	238.03	26.93	50.14	341.23	-112.96	8,357.13	8,297.70	59.43	140.629		
17,000.00	7,799.00	7,300.00	7,282.75	240.69	26.93	50.14	341.23	-112.96	8,456.67	8,397.17	59.50	142.137		
17,100.00	7,799.00	7,300.00	7,282.75	243.36	26.93	50.14	341.23	-112.96	8,556.23	8,496.66	59.57	143.640		
17,200.00	7,799.00	7,300.00	7,282.75	246.02	26.93	50.14	341.23	-112.96	8,655.79	8,596.15	59.64	145.138		
17,300.00	7,799.00	7,276.57	7,259.45	248.69	26.84	48.81	339.56	-114.76	8,754.86	8,695.17	59.68	146.688		
17,400.00	7,799.00	7,276.23	7,259.11	251.35	26.84	48.79	339.53	-114.78	8,854.42	8,794.67	59.76	148.178		
17,500.00	7,799.00	7,275.89	7,258.77	254.02	26.84	48.77	339.51	-114.80	8,954.00	8,894.18	59.83	149.662		
17,600.00	7,799.00	7,275.56	7,258.44	256.69	26.84	48.75	339.49	-114.81	9,053.59	8,993.69	59.90	151.141		
17,700.00	7,799.00	7,275.24	7,258.12	259.35	26.84	48.73	339.46	-114.83	9,153.19	9,093.21	59.98	152.615		
17,800.00	7,799.00	7,274.92	7,257.81	262.02	26.83	48.72	339.44	-114.85	9,252.79	9,192.74	60.05	154.084		
17,900.00	7,799.00	7,274.61	7,257.50	264.69	26.83	48.70	339.42	-114.86	9,352.41	9,292.28	60.13	155.548		
18,000.00	7,799.00	7,274.31	7,257.20	267.36	26.83	48.68	339.40	-114.88	9,452.03	9,391.83	60.20	157.006		
18,100.00	7,799.00	7,274.01	7,256.90	270.03	26.83	48.67	339.37	-114.90	9,551.66	9,491.38	60.28	158.460		
18,200.00	7,799.00	7,273.72	7,256.61	272.70	26.83	48.65	339.35	-114.91	9,651.29	9,590.94	60.36	159.908		
18,300.00	7,799.00	7,273.44	7,256.33	275.37	26.83	48.63	339.33	-114.93	9,750.94	9,690.50	60.43	161.351		
18,400.00	7,799.00	7,250.00	7,232.96	278.04	26.74	47.35	337.65	-115.64	9,851.08	9,790.60	60.48	162.870		
18,464.45	7,799.00	7,250.00	7,232.96	279.17	26.74	47.35	337.65	-115.64	9,915.31	9,849.71	65.60	151.156		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 1BH - 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	2.42	-2.42	0.00	0.00	-156.23	-146.43	-64.48	160.00					
100.00	100.00	102.42	97.58	0.14	0.14	-156.23	-146.43	-64.48	160.00	159.72	0.28	569.177		
200.00	200.00	202.42	197.58	0.49	0.50	-156.23	-146.43	-64.48	160.00	159.01	1.00	160.315 CC, ES		
300.00	299.98	302.44	297.56	0.85	0.86	144.44	-146.43	-64.48	161.42	159.71	1.71	94.225		
400.00	399.84	402.58	397.42	1.21	1.22	145.45	-146.43	-64.48	165.71	163.27	2.43	68.077		
500.00	499.45	502.97	497.03	1.58	1.58	147.00	-146.43	-64.48	172.96	169.80	3.16	54.691		
600.00	598.75	596.33	596.33	1.97	1.92	148.96	-146.43	-64.48	183.01	179.14	3.87	47.266		
700.00	697.98	705.91	694.08	2.37	2.29	150.96	-146.70	-65.23	194.32	189.70	4.61	42.111		
800.00	797.22	806.80	793.19	2.77	2.63	152.80	-147.02	-66.16	205.99	200.66	5.33	38.660		
900.00	896.46	907.69	892.30	3.17	2.99	154.44	-147.35	-67.09	217.85	211.80	6.05	36.032		
1,000.00	995.69	1,008.58	991.40	3.58	3.34	155.91	-147.67	-68.01	229.86	223.10	6.77	33.974		
1,100.00	1,094.93	1,109.47	1,090.51	3.98	3.69	157.24	-148.00	-68.94	242.01	234.53	7.49	32.324		
1,200.00	1,194.16	1,189.64	1,189.61	4.39	3.97	158.44	-148.32	-69.87	254.28	246.14	8.14	31.252		
1,300.00	1,293.40	1,288.75	1,288.72	4.80	4.32	159.52	-148.65	-70.80	266.65	257.79	8.85	30.119		
1,400.00	1,392.64	1,387.86	1,387.83	5.21	4.68	160.51	-148.98	-71.73	279.10	269.53	9.57	29.163		
1,500.00	1,491.87	1,486.97	1,486.93	5.62	5.03	161.42	-149.30	-72.65	291.63	281.34	10.29	28.347		
1,600.00	1,591.11	1,586.09	1,586.04	6.03	5.38	162.25	-149.63	-73.58	304.22	293.21	11.01	27.642		
1,700.00	1,690.34	1,685.20	1,685.14	6.44	5.73	163.02	-149.95	-74.51	316.87	305.15	11.72	27.028		
1,800.00	1,789.58	1,784.31	1,784.25	6.85	6.09	163.72	-150.28	-75.44	329.58	317.13	12.44	26.488		
1,900.00	1,888.82	1,883.42	1,883.36	7.26	6.44	164.38	-150.60	-76.36	342.33	329.16	13.16	26.011		
2,000.00	1,988.05	1,982.53	1,982.46	7.67	6.79	164.99	-150.93	-77.29	355.12	341.24	13.88	25.585		
2,100.00	2,087.29	2,081.64	2,081.57	8.08	7.15	165.55	-151.25	-78.22	367.94	353.34	14.60	25.204		
2,200.00	2,186.52	2,180.75	2,180.67	8.49	7.50	166.08	-151.58	-79.15	380.80	365.48	15.32	24.861		
2,300.00	2,285.76	2,279.86	2,279.78	8.90	7.86	166.57	-151.91	-80.07	393.69	377.65	16.04	24.549		
2,400.00	2,385.00	2,378.97	2,378.89	9.31	8.21	167.03	-152.23	-81.00	406.61	389.85	16.76	24.267		
2,500.00	2,484.23	2,478.08	2,477.99	9.72	8.57	167.46	-152.56	-81.93	419.55	402.07	17.48	24.008		
2,600.00	2,583.47	2,577.20	2,577.10	10.13	8.92	167.87	-152.88	-82.86	432.51	414.31	18.19	23.771		
2,700.00	2,682.70	2,676.31	2,676.20	10.54	9.27	168.25	-153.21	-83.79	445.49	426.58	18.91	23.553		
2,800.00	2,781.94	2,775.42	2,775.31	10.95	9.63	168.61	-153.53	-84.71	458.49	438.86	19.63	23.352		
2,900.00	2,881.18	2,874.53	2,874.42	11.36	9.98	168.96	-153.86	-85.64	471.51	451.16	20.35	23.166		
3,000.00	2,980.41	2,973.64	2,973.52	11.77	10.34	169.28	-154.18	-86.57	484.54	463.47	21.07	22.993		
3,100.00	3,079.65	3,072.75	3,072.63	12.19	10.69	169.59	-154.51	-87.50	497.59	475.80	21.79	22.832		
3,200.00	3,178.88	3,171.86	3,171.74	12.60	11.05	169.88	-154.84	-88.42	510.65	488.14	22.51	22.682		
3,300.00	3,278.12	3,270.97	3,270.84	13.01	11.40	170.15	-155.16	-89.35	523.73	500.49	23.23	22.542		
3,400.00	3,377.36	3,370.08	3,369.95	13.42	11.76	170.41	-155.49	-90.28	536.81	512.86	23.95	22.411		
3,500.00	3,476.59	3,469.19	3,469.05	13.83	12.11	170.66	-155.81	-91.21	549.91	525.23	24.67	22.287		
3,600.00	3,575.83	3,568.30	3,568.16	14.24	12.47	170.90	-156.14	-92.13	563.01	537.62	25.39	22.171		
3,700.00	3,675.06	3,667.42	3,667.27	14.65	12.83	171.13	-156.46	-93.06	576.13	550.01	26.11	22.062		
3,800.00	3,774.30	3,766.53	3,766.37	15.06	13.18	171.35	-156.79	-93.99	589.25	562.41	26.83	21.959		
3,900.00	3,873.53	3,865.64	3,865.48	15.47	13.54	171.56	-157.11	-94.92	602.38	574.82	27.55	21.861		
4,000.00	3,972.77	3,964.75	3,964.58	15.89	13.89	171.76	-157.44	-95.84	615.52	587.24	28.27	21.769		
4,100.00	4,072.01	4,063.86	4,063.69	16.30	14.25	171.95	-157.77	-96.77	628.66	599.67	29.00	21.681		
4,200.00	4,171.24	4,162.97	4,162.80	16.71	14.60	172.13	-158.09	-97.70	641.82	612.10	29.72	21.598		
4,300.00	4,270.48	4,262.08	4,261.90	17.12	14.96	172.31	-158.42	-98.63	654.97	624.54	30.44	21.519		
4,400.00	4,369.71	4,361.19	4,361.01	17.53	15.31	172.47	-158.74	-99.56	668.14	636.98	31.16	21.444		
4,500.00	4,468.95	4,460.30	4,460.11	17.94	15.67	172.64	-159.07	-100.48	681.31	649.43	31.88	21.372		
4,600.00	4,568.19	4,559.41	4,559.22	18.35	16.02	172.79	-159.39	-101.41	694.48	661.88	32.60	21.304		
4,700.00	4,667.42	4,658.52	4,658.33	18.76	16.38	172.94	-159.72	-102.34	707.66	674.34	33.32	21.239		
4,800.00	4,766.66	4,757.64	4,757.43	19.18	16.74	173.09	-160.04	-103.27	720.84	686.80	34.04	21.176		
4,900.00	4,865.89	4,856.75	4,856.54	19.59	17.09	173.23	-160.37	-104.19	734.03	699.27	34.76	21.117		
5,000.00	4,965.13	4,955.86	4,955.64	20.00	17.45	173.36	-160.70	-105.12	747.23	711.74	35.48	21.059		
5,100.00	5,064.37	5,054.97	5,054.75	20.41	17.80	173.49	-161.02	-106.05	760.42	724.22	36.20	21.005		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 1BH - 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	5,163.60	5,154.08	5,153.86	20.82	18.16	173.62	-161.35	-106.98	773.62	736.70	36.92	20.952		
5,300.00	5,262.84	5,253.19	5,252.96	21.23	18.51	173.74	-161.67	-107.90	786.83	749.18	37.64	20.901		
5,400.00	5,362.07	5,352.30	5,352.07	21.64	18.87	173.86	-162.00	-108.83	800.03	761.67	38.37	20.853		
5,500.00	5,461.31	5,451.41	5,451.17	22.05	19.22	173.97	-162.32	-109.76	813.24	774.16	39.09	20.806		
5,600.00	5,560.55	5,550.52	5,550.28	22.47	19.58	174.08	-162.65	-110.69	826.46	786.65	39.81	20.761		
5,700.00	5,659.78	5,649.63	5,649.39	22.88	19.94	174.19	-162.97	-111.62	839.67	799.14	40.53	20.718		
5,800.00	5,759.02	5,748.74	5,748.49	23.29	20.29	174.29	-163.30	-112.54	852.89	811.64	41.25	20.676		
5,900.00	5,858.25	5,847.86	5,847.60	23.70	20.65	174.39	-163.63	-113.47	866.11	824.14	41.97	20.636		
6,000.00	5,957.49	5,946.97	5,946.70	24.11	21.00	174.49	-163.95	-114.40	879.34	836.65	42.69	20.597		
6,100.00	6,056.73	6,046.08	6,045.81	24.52	21.36	174.58	-164.28	-115.33	892.57	849.15	43.41	20.559		
6,200.00	6,155.96	6,145.19	6,144.92	24.93	21.71	174.67	-164.60	-116.25	905.79	861.66	44.14	20.523		
6,300.00	6,255.20	6,244.30	6,244.02	25.34	22.07	174.76	-164.93	-117.18	919.03	874.17	44.86	20.488		
6,400.00	6,354.43	6,343.41	6,343.13	25.76	22.43	174.85	-165.25	-118.11	932.26	886.68	45.58	20.454		
6,500.00	6,453.67	6,442.52	6,442.23	26.17	22.78	174.93	-165.58	-119.04	945.49	899.19	46.30	20.421		
6,600.00	6,552.91	6,541.63	6,541.34	26.58	23.14	175.01	-165.90	-119.96	958.73	911.71	47.02	20.389		
6,700.00	6,652.14	6,640.74	6,640.45	26.99	23.49	175.09	-166.23	-120.89	971.97	924.23	47.74	20.358		
6,800.00	6,751.38	6,739.85	6,739.55	27.40	23.85	175.17	-166.56	-121.82	985.21	936.75	48.46	20.329		
6,900.00	6,850.61	6,838.97	6,838.66	27.81	24.20	175.24	-166.88	-122.75	998.45	949.27	49.19	20.300		
7,000.00	6,949.85	6,938.08	6,937.77	28.22	24.56	175.32	-167.21	-123.68	1,011.70	961.79	49.91	20.271		
7,100.00	7,049.09	7,037.01	7,036.70	28.64	33.74	129.13	-203.82	690.38	976.93	932.20	44.73	21.840		
7,200.00	7,148.32	7,136.30	7,136.00	29.05	33.90	128.26	-204.24	700.75	907.34	859.59	47.76	18.999		
7,300.00	7,247.89	7,235.98	7,235.69	29.46	33.97	-151.63	-204.43	705.42	843.48	792.50	50.98	16.545		
7,400.00	7,346.79	7,334.57	7,334.28	29.87	33.78	-113.67	-203.92	693.03	787.22	733.17	54.05	14.566		
7,500.00	7,442.07	7,429.15	7,428.86	29.83	33.33	-108.99	-202.72	663.63	741.28	684.62	56.66	13.083		
7,600.00	7,530.81	7,517.40	7,517.11	29.92	32.68	-106.39	-200.85	618.13	707.14	648.58	58.55	12.076		
7,700.00	7,610.33	7,596.32	7,596.03	29.97	31.82	-103.25	-198.37	557.89	684.60	625.07	59.54	11.499		
7,800.00	7,678.21	7,664.13	7,663.84	30.00	30.88	-99.50	-195.37	484.76	671.88	612.13	59.75	11.244		
7,900.00	7,732.39	7,718.96	7,718.67	30.08	29.85	-95.27	-191.66	394.74	665.86	606.46	59.40	11.209 SF		
8,000.00	7,771.23	7,757.97	7,757.68	30.28	28.96	-90.98	-187.93	305.22	663.41	604.43	58.98	11.248		
8,028.74	7,779.37	7,766.24	7,765.95	30.38	28.74	-89.81	-186.92	281.41	663.29	604.40	58.89	11.263		
8,100.00	7,793.53	7,780.13	7,779.84	30.66	28.27	-87.00	-184.57	225.82	664.00	605.34	58.65	11.321		
8,200.00	7,799.00	7,785.69	7,785.40	31.25	27.75	-83.39	-181.56	155.77	667.13	608.65	58.49	11.406		
8,300.00	7,799.00	7,786.47	7,786.18	32.08	27.37	-80.10	-179.06	98.43	674.85	616.37	58.48	11.540		
8,400.00	7,799.00	7,790.01	7,789.72	33.13	27.11	-76.94	-177.09	53.91	689.65	631.08	58.57	11.774		
8,500.00	7,799.00	7,794.93	7,794.64	34.37	26.92	-74.06	-175.56	19.68	712.73	654.00	58.73	12.136		
8,600.00	7,799.00	7,790.00	7,789.71	35.78	26.76	-71.30	-174.25	-8.93	744.54	685.69	58.85	12.651		
8,700.00	7,799.00	7,786.97	7,786.68	37.33	26.66	-69.35	-173.42	-27.07	784.85	725.74	59.11	13.277		
8,800.00	7,799.00	7,783.46	7,783.17	39.00	26.57	-67.47	-172.67	-43.03	833.10	773.80	59.31	14.048		
8,900.00	7,799.00	7,780.23	7,779.94	40.79	26.49	-65.86	-172.07	-55.65	888.42	828.94	59.48	14.937		
9,000.00	7,799.00	7,777.00	7,776.71	42.67	26.45	-64.95	-171.75	-62.34	949.93	890.20	59.74	15.902		
9,100.00	7,799.00	7,773.59	7,773.30	44.63	26.37	-63.26	-171.19	-73.92	1,016.56	956.81	59.75	17.013		
9,200.00	7,799.00	7,770.00	7,769.71	46.66	26.30	-61.77	-170.72	-83.33	1,087.74	1,027.98	59.76	18.202		
9,300.00	7,799.00	7,766.00	7,765.71	48.76	26.30	-61.77	-170.72	-83.33	1,162.60	1,102.60	60.00	19.376		
9,400.00	7,799.00	7,762.62	7,762.33	50.92	26.24	-60.49	-170.35	-90.74	1,240.53	1,180.56	59.97	20.685		
9,500.00	7,799.00	7,759.12	7,758.83	53.12	26.21	-59.77	-170.15	-94.62	1,321.18	1,261.17	60.01	22.016		
9,600.00	7,799.00	7,755.00	7,754.71	55.37	26.15	-58.66	-169.85	-100.29	1,404.12	1,344.16	59.97	23.415		
9,700.00	7,799.00	7,751.00	7,750.71	57.65	26.15	-58.66	-169.85	-100.29	1,488.84	1,428.78	60.06	24.790		
9,800.00	7,799.00	7,747.00	7,746.71	59.97	26.15	-58.66	-169.85	-100.29	1,575.34	1,515.23	60.12	26.204		
9,900.00	7,799.00	7,743.46	7,743.17	62.32	26.10	-57.59	-169.59	-105.26	1,663.02	1,602.97	60.05	27.694		
10,000.00	7,799.00	7,739.48	7,739.19	64.69	26.07	-57.17	-169.49	-107.09	1,752.01	1,691.96	60.05	29.178		
10,100.00	7,799.00	7,735.09	7,734.80	67.09	26.05	-56.79	-169.40	-108.70	1,842.03	1,781.99	60.04	30.682		
10,200.00	7,799.00	7,730.00	7,729.71	69.51	25.99	-55.67	-169.15	-113.09	1,933.15	1,873.19	59.96	32.241		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 1BH - 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	7,799.00	7,350.00	7,348.72	71.95	25.99	-55.67	-169.15	-113.09	2,024.74	1,964.76	59.98	33.757		
10,400.00	7,799.00	7,350.00	7,348.72	74.41	25.99	-55.67	-169.15	-113.09	2,117.09	2,057.10	59.99	35.290		
10,500.00	7,799.00	7,350.00	7,348.72	76.89	25.99	-55.67	-169.15	-113.09	2,210.11	2,150.11	60.00	36.836		
10,600.00	7,799.00	7,350.00	7,348.72	79.37	25.99	-55.67	-169.15	-113.09	2,303.71	2,243.71	60.00	38.393		
10,700.00	7,799.00	7,350.00	7,348.72	81.87	25.99	-55.67	-169.15	-113.09	2,397.83	2,337.83	60.00	39.961		
10,800.00	7,799.00	7,350.00	7,348.72	84.39	25.99	-55.67	-169.15	-113.09	2,492.41	2,432.41	60.00	41.538		
10,900.00	7,799.00	7,350.00	7,348.72	86.91	25.99	-55.67	-169.15	-113.09	2,587.40	2,527.39	60.00	43.122		
11,000.00	7,799.00	7,329.16	7,328.28	89.44	25.93	-54.46	-168.91	-117.18	2,682.30	2,622.35	59.94	44.749		
11,100.00	7,799.00	7,326.05	7,325.22	91.99	25.92	-54.28	-168.87	-117.72	2,777.83	2,717.90	59.93	46.349		
11,200.00	7,799.00	7,323.12	7,322.33	94.54	25.91	-54.11	-168.84	-118.22	2,873.65	2,813.72	59.93	47.952		
11,300.00	7,799.00	7,320.35	7,319.61	97.10	25.90	-53.96	-168.81	-118.68	2,969.73	2,909.81	59.92	49.559		
11,400.00	7,799.00	7,300.00	7,299.47	99.66	25.84	-52.82	-168.62	-121.64	3,066.37	3,006.49	59.88	51.212		
11,500.00	7,799.00	7,300.00	7,299.47	102.24	25.84	-52.82	-168.62	-121.64	3,162.82	3,102.94	59.88	52.817		
11,600.00	7,799.00	7,300.00	7,299.47	104.82	25.84	-52.82	-168.62	-121.64	3,259.48	3,199.59	59.89	54.424		
11,700.00	7,799.00	7,300.00	7,299.47	107.40	25.84	-52.82	-168.62	-121.64	3,356.34	3,296.44	59.90	56.034		
11,800.00	7,799.00	7,300.00	7,299.47	109.99	25.84	-52.82	-168.62	-121.64	3,453.38	3,393.47	59.91	57.646		
11,900.00	7,799.00	7,300.00	7,299.47	112.58	25.84	-53.99	-168.62	-121.64	3,550.57	3,490.65	59.92	59.260		
12,000.00	7,799.00	7,300.00	7,299.47	115.17	25.84	-60.15	-168.62	-121.64	3,647.23	3,587.32	59.92	60.871		
12,100.00	7,799.00	7,300.00	7,299.47	117.74	25.84	-64.69	-168.62	-121.64	3,742.86	3,682.96	59.91	62.478		
12,200.00	7,799.00	7,300.00	7,299.47	120.27	25.84	-68.13	-168.62	-121.64	3,837.28	3,777.40	59.88	64.078		
12,300.00	7,799.00	7,300.00	7,299.47	122.76	25.84	-70.80	-168.62	-121.64	3,930.32	3,870.47	59.85	65.669		
12,400.00	7,799.00	7,300.00	7,299.47	125.19	25.84	-72.92	-168.62	-121.64	4,021.84	3,962.04	59.80	67.253		
12,500.00	7,799.00	7,300.00	7,299.47	127.57	25.84	-74.64	-168.62	-121.64	4,111.70	4,051.96	59.74	68.829		
12,600.00	7,799.00	7,300.00	7,299.47	129.88	25.84	-75.49	-168.62	-121.64	4,199.97	4,140.31	59.66	70.399		
12,700.00	7,799.00	7,300.00	7,299.47	132.19	25.84	-75.49	-168.62	-121.64	4,288.37	4,228.78	59.59	71.968		
12,800.00	7,799.00	7,300.00	7,299.47	134.50	25.84	-75.49	-168.62	-121.64	4,377.27	4,317.75	59.52	73.541		
12,900.00	7,799.00	7,300.00	7,299.47	136.83	25.84	-75.49	-168.62	-121.64	4,466.64	4,407.18	59.46	75.119		
13,000.00	7,799.00	7,300.00	7,299.47	139.16	25.84	-75.49	-168.62	-121.64	4,556.45	4,497.04	59.41	76.701		
13,100.00	7,799.00	7,300.00	7,299.47	141.50	25.84	-75.49	-168.62	-121.64	4,646.68	4,587.32	59.36	78.286		
13,200.00	7,799.00	7,300.00	7,299.47	143.84	25.84	-75.49	-168.62	-121.64	4,737.30	4,677.99	59.31	79.874		
13,300.00	7,799.00	7,300.00	7,299.47	146.19	25.84	-75.49	-168.62	-121.64	4,828.29	4,769.02	59.27	81.464		
13,400.00	7,799.00	7,300.00	7,299.47	148.55	25.84	-75.49	-168.62	-121.64	4,919.62	4,860.39	59.23	83.056		
13,500.00	7,799.00	7,300.00	7,299.47	150.92	25.84	-75.49	-168.62	-121.64	5,011.30	4,952.09	59.20	84.650		
13,600.00	7,799.00	7,300.00	7,299.47	153.29	25.84	-75.49	-168.62	-121.64	5,103.28	5,044.11	59.17	86.245		
13,700.00	7,799.00	7,300.00	7,299.47	155.66	25.84	-75.49	-168.62	-121.64	5,195.56	5,136.41	59.15	87.840		
13,800.00	7,799.00	7,300.00	7,299.47	158.04	25.84	-75.49	-168.62	-121.64	5,288.12	5,228.99	59.13	89.436		
13,900.00	7,799.00	7,300.00	7,299.47	160.43	25.84	-75.49	-168.62	-121.64	5,380.94	5,321.83	59.11	91.033		
14,000.00	7,799.00	7,300.00	7,299.47	162.82	25.84	-75.49	-168.62	-121.64	5,474.02	5,414.93	59.10	92.629		
14,100.00	7,799.00	7,300.00	7,299.47	165.21	25.84	-75.49	-168.62	-121.64	5,567.34	5,508.26	59.09	94.224		
14,200.00	7,799.00	7,300.00	7,299.47	167.61	25.84	-75.49	-168.62	-121.64	5,660.89	5,601.81	59.08	95.820		
14,300.00	7,799.00	7,300.00	7,299.47	170.02	25.84	-75.49	-168.62	-121.64	5,754.65	5,695.58	59.07	97.414		
14,400.00	7,799.00	7,277.44	7,277.05	172.42	25.76	-74.86	-168.43	-124.08	5,848.14	5,789.09	59.05	99.038		
14,500.00	7,799.00	7,276.73	7,276.34	174.84	25.76	-74.84	-168.43	-124.15	5,942.28	5,883.22	59.05	100.630		
14,600.00	7,799.00	7,276.02	7,275.63	177.28	25.76	-72.57	-168.42	-124.21	6,037.21	5,978.15	59.06	102.222		
14,700.00	7,799.00	7,275.32	7,274.94	179.78	25.76	-68.90	-168.42	-124.27	6,133.70	6,074.62	59.08	103.817		
14,800.00	7,799.00	7,274.63	7,274.25	182.34	25.75	-63.23	-168.41	-124.33	6,231.44	6,172.32	59.11	105.414		
14,900.00	7,799.00	7,273.95	7,273.57	184.94	25.75	-53.66	-168.41	-124.38	6,330.10	6,270.95	59.15	107.011		
15,000.00	7,799.00	7,273.28	7,272.91	187.56	25.75	-35.91	-168.40	-124.44	6,429.38	6,370.18	59.20	108.604		
15,100.00	7,799.00	7,272.63	7,272.25	190.21	25.75	-4.51	-168.40	-124.49	6,528.99	6,469.74	59.25	110.191		
15,200.00	7,799.00	7,250.00	7,249.67	192.85	25.68	11.00	-168.26	-125.87	6,629.12	6,569.83	59.29	111.814		
15,300.00	7,799.00	7,250.00	7,249.67	195.50	25.68	11.00	-168.26	-125.87	6,728.77	6,669.43	59.34	113.387		
15,400.00	7,799.00	7,250.00	7,249.67	198.16	25.68	11.00	-168.26	-125.87	6,828.43	6,769.03	59.40	114.955		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 1BH - 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		
15,500.00	7,799.00	7,250.00	7,249.67	200.81	25.68	11.00	-168.26	-125.87	6,928.10	6,868.65	59.46	116.519		
15,600.00	7,799.00	7,250.00	7,249.67	203.46	25.68	11.00	-168.26	-125.87	7,027.79	6,968.27	59.52	118.080		
15,700.00	7,799.00	7,250.00	7,249.67	206.11	25.68	11.00	-168.26	-125.87	7,127.48	7,067.90	59.58	119.636		
15,800.00	7,799.00	7,250.00	7,249.67	208.77	25.68	11.00	-168.26	-125.87	7,227.17	7,167.54	59.64	121.188		
15,900.00	7,799.00	7,250.00	7,249.67	211.43	25.68	11.00	-168.26	-125.87	7,326.88	7,267.18	59.70	122.736		
16,000.00	7,799.00	7,250.00	7,249.67	214.08	25.68	11.00	-168.26	-125.87	7,426.59	7,366.84	59.76	124.280		
16,100.00	7,799.00	7,250.00	7,249.67	216.74	25.68	11.00	-168.26	-125.87	7,526.32	7,466.50	59.82	125.819		
16,200.00	7,799.00	7,250.00	7,249.67	219.40	25.68	11.00	-168.26	-125.87	7,626.05	7,566.16	59.88	127.354		
16,300.00	7,799.00	7,250.00	7,249.67	222.06	25.68	11.00	-168.26	-125.87	7,725.78	7,665.84	59.94	128.885		
16,400.00	7,799.00	7,250.00	7,249.67	224.72	25.68	11.00	-168.26	-125.87	7,825.52	7,765.52	60.01	130.411		
16,500.00	7,799.00	7,250.00	7,249.67	227.38	25.68	11.00	-168.26	-125.87	7,925.27	7,865.20	60.07	131.933		
16,600.00	7,799.00	7,250.00	7,249.67	230.04	25.68	11.00	-168.26	-125.87	8,025.03	7,964.89	60.14	133.450		
16,700.00	7,799.00	7,250.00	7,249.67	232.70	25.68	11.00	-168.26	-125.87	8,124.79	8,064.59	60.20	134.963		
16,800.00	7,799.00	7,250.00	7,249.67	235.36	25.68	11.00	-168.26	-125.87	8,224.56	8,164.29	60.27	136.471		
16,900.00	7,799.00	7,250.00	7,249.67	238.03	25.68	11.00	-168.26	-125.87	8,324.33	8,264.00	60.33	137.975		
17,000.00	7,799.00	7,250.00	7,249.67	240.69	25.68	11.00	-168.26	-125.87	8,424.11	8,363.71	60.40	139.474		
17,100.00	7,799.00	7,250.00	7,249.67	243.36	25.68	11.00	-168.26	-125.87	8,523.89	8,463.43	60.47	140.969		
17,200.00	7,799.00	7,250.00	7,249.67	246.02	25.68	11.00	-168.26	-125.87	8,623.68	8,563.15	60.53	142.458		
17,300.00	7,799.00	7,250.00	7,249.67	248.69	25.68	11.00	-168.26	-125.87	8,723.48	8,662.87	60.60	143.944		
17,400.00	7,799.00	7,250.00	7,249.67	251.35	25.68	11.00	-168.26	-125.87	8,823.27	8,762.60	60.67	145.424		
17,500.00	7,799.00	7,250.00	7,249.67	254.02	25.68	11.00	-168.26	-125.87	8,923.08	8,862.33	60.74	146.900		
17,600.00	7,799.00	7,250.00	7,249.67	256.69	25.68	11.00	-168.26	-125.87	9,022.88	8,962.07	60.81	148.371		
17,700.00	7,799.00	7,250.00	7,249.67	259.35	25.68	11.00	-168.26	-125.87	9,122.70	9,061.81	60.88	149.837		
17,800.00	7,799.00	7,250.00	7,249.67	262.02	25.68	11.00	-168.26	-125.87	9,222.51	9,161.55	60.96	151.298		
17,900.00	7,799.00	7,250.00	7,249.67	264.69	25.68	11.00	-168.26	-125.87	9,322.33	9,261.30	61.03	152.755		
18,000.00	7,799.00	7,250.00	7,249.67	267.36	25.68	11.00	-168.26	-125.87	9,422.15	9,361.05	61.10	154.206		
18,100.00	7,799.00	7,250.00	7,249.67	270.03	25.68	11.00	-168.26	-125.87	9,521.98	9,460.81	61.17	155.653		
18,200.00	7,799.00	7,250.00	7,249.67	272.70	25.68	11.00	-168.26	-125.87	9,621.81	9,560.56	61.25	157.095		
18,300.00	7,799.00	7,250.00	7,249.67	275.37	25.68	11.00	-168.26	-125.87	9,721.64	9,660.32	61.32	158.532		
18,400.00	7,799.00	7,250.00	7,249.67	278.04	25.68	11.00	-168.26	-125.87	9,821.48	9,760.08	61.40	159.964		
18,464.45	7,799.00	7,250.00	7,249.67	279.17	25.68	11.00	-168.26	-125.87	9,885.83	9,819.54	66.29	149.120		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 2AH - 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	2.85	-2.85	0.00	0.00	-156.19	-164.65	-72.65	179.96					
100.00	100.00	102.85	97.15	0.14	0.15	-156.19	-164.65	-72.65	179.96	179.68	0.28	636.688		
200.00	200.00	202.85	197.15	0.49	0.50	-156.19	-164.65	-72.65	179.96	178.96	1.00	180.036	CC, ES	
300.00	299.98	302.87	297.13	0.85	0.86	144.45	-164.65	-72.65	181.38	179.67	1.71	105.781		
400.00	399.84	403.01	396.99	1.21	1.22	145.34	-164.65	-72.65	185.66	183.23	2.44	76.228		
500.00	499.45	496.60	496.60	1.58	1.56	146.73	-164.65	-72.65	192.90	189.76	3.14	61.439		
600.00	598.75	590.00	589.98	1.97	1.88	148.24	-166.05	-72.78	204.30	200.45	3.84	53.194		
700.00	697.98	682.51	682.39	2.37	2.19	149.38	-170.43	-73.20	219.21	214.69	4.52	48.510		
800.00	797.22	774.21	773.79	2.77	2.50	150.07	-177.70	-73.89	237.09	231.89	5.19	45.639		
900.00	896.46	869.27	868.32	3.17	2.85	150.44	-187.73	-74.84	257.33	251.45	5.89	43.708		
1,000.00	995.69	967.14	965.61	3.58	3.21	150.75	-198.31	-75.84	277.82	271.23	6.60	42.100		
1,100.00	1,094.93	1,065.01	1,062.90	3.98	3.58	151.01	-208.88	-76.84	298.32	291.01	7.32	40.773		
1,200.00	1,194.16	1,162.88	1,160.19	4.39	3.95	151.25	-219.45	-77.84	318.83	310.79	8.04	39.675		
1,300.00	1,293.40	1,260.74	1,257.48	4.80	4.33	151.45	-230.03	-78.84	339.34	330.57	8.76	38.731		
1,400.00	1,392.64	1,358.61	1,354.77	5.21	4.72	151.63	-240.60	-79.84	359.85	350.36	9.49	37.926		
1,500.00	1,491.87	1,456.48	1,452.06	5.62	5.10	151.79	-251.18	-80.84	380.36	370.15	10.22	37.230		
1,600.00	1,591.11	1,554.35	1,549.35	6.03	5.49	151.93	-261.75	-81.84	400.88	389.93	10.95	36.621		
1,700.00	1,690.34	1,652.21	1,646.64	6.44	5.87	152.06	-272.32	-82.84	421.40	409.72	11.68	36.086		
1,800.00	1,789.58	1,750.08	1,743.93	6.85	6.26	152.18	-282.90	-83.84	441.92	429.51	12.41	35.610		
1,900.00	1,888.82	1,847.95	1,841.21	7.26	6.65	152.29	-293.47	-84.84	462.45	449.30	13.14	35.185		
2,000.00	1,988.05	1,945.82	1,938.50	7.67	7.04	152.39	-304.05	-85.84	482.97	469.09	13.88	34.804		
2,100.00	2,087.29	2,043.69	2,035.79	8.08	7.43	152.48	-314.62	-86.84	503.50	488.89	14.61	34.459		
2,200.00	2,186.52	2,141.55	2,133.08	8.49	7.83	152.56	-325.19	-87.85	524.02	508.68	15.35	34.147		
2,300.00	2,285.76	2,239.42	2,230.37	8.90	8.22	152.64	-335.77	-88.85	544.55	528.47	16.08	33.862		
2,400.00	2,385.00	2,337.29	2,327.66	9.31	8.61	152.71	-346.34	-89.85	565.08	548.26	16.82	33.601		
2,500.00	2,484.23	2,435.16	2,424.95	9.72	9.01	152.78	-356.92	-90.85	585.61	568.06	17.55	33.361		
2,600.00	2,583.47	2,533.02	2,522.24	10.13	9.40	152.84	-367.49	-91.85	606.14	587.85	18.29	33.141		
2,700.00	2,682.70	2,630.89	2,619.53	10.54	9.79	152.90	-378.06	-92.85	626.67	607.65	19.03	32.937		
2,800.00	2,781.94	2,728.76	2,716.82	10.95	10.19	152.95	-388.64	-93.85	647.20	627.44	19.76	32.747		
2,900.00	2,881.18	2,826.63	2,814.11	11.36	10.58	153.00	-399.21	-94.85	667.74	647.24	20.50	32.571		
3,000.00	2,980.41	2,924.50	2,911.40	11.77	10.98	153.05	-409.79	-95.85	688.27	667.03	21.24	32.407		
3,100.00	3,079.65	3,022.36	3,008.69	12.19	11.37	153.09	-420.36	-96.85	708.80	686.83	21.98	32.254		
3,200.00	3,178.88	3,120.23	3,105.98	12.60	11.77	153.14	-430.93	-97.85	729.34	706.62	22.71	32.110		
3,300.00	3,278.12	3,218.10	3,203.27	13.01	12.16	153.18	-441.51	-98.85	749.87	726.42	23.45	31.975		
3,400.00	3,377.36	3,315.97	3,300.56	13.42	12.56	153.21	-452.08	-99.86	770.40	746.21	24.19	31.848		
3,500.00	3,476.59	3,413.83	3,397.85	13.83	12.95	153.25	-462.66	-100.86	790.94	766.01	24.93	31.729		
3,600.00	3,575.83	3,511.70	3,495.14	14.24	13.35	153.28	-473.23	-101.86	811.47	785.81	25.67	31.616		
3,700.00	3,675.06	3,609.57	3,592.43	14.65	13.74	153.32	-483.80	-102.86	832.01	805.60	26.40	31.510		
3,800.00	3,774.30	3,707.44	3,689.72	15.06	14.14	153.35	-494.38	-103.86	852.54	825.40	27.14	31.409		
3,900.00	3,873.53	3,805.31	3,787.01	15.47	14.53	153.38	-504.95	-104.86	873.08	845.20	27.88	31.313		
4,000.00	3,972.77	3,903.17	3,884.30	15.89	14.93	153.41	-515.53	-105.86	893.62	864.99	28.62	31.222		
4,100.00	4,072.01	4,001.04	3,981.59	16.30	15.32	153.43	-526.10	-106.86	914.15	884.79	29.36	31.136		
4,200.00	4,171.24	4,098.91	4,078.88	16.71	15.72	153.46	-536.67	-107.86	934.69	904.59	30.10	31.054		
4,300.00	4,270.48	4,203.22	4,176.17	17.12	16.14	153.48	-547.25	-108.86	955.22	924.36	30.86	30.951		
4,400.00	4,369.71	4,305.36	4,273.46	17.53	16.56	153.51	-557.82	-109.86	975.76	944.14	31.62	30.861		
4,500.00	4,468.95	4,407.49	4,370.75	17.94	16.97	153.53	-568.40	-110.86	996.30	963.92	32.37	30.776		
4,600.00	4,568.19	4,509.62	4,468.04	18.35	17.38	153.55	-578.97	-111.87	1,016.83	983.71	33.13	30.694		
4,700.00	4,667.42	4,588.25	4,565.33	18.76	17.70	153.57	-589.54	-112.87	1,037.37	1,003.58	33.80	30.696		
4,800.00	4,766.66	4,686.12	4,662.62	19.18	18.10	153.59	-600.12	-113.87	1,057.91	1,023.37	34.54	30.633		
4,900.00	4,865.89	4,783.98	4,759.91	19.59	18.49	153.61	-610.69	-114.87	1,078.45	1,043.17	35.27	30.573		
5,000.00	4,965.13	4,881.85	4,857.20	20.00	18.89	153.63	-621.27	-115.87	1,098.98	1,062.97	36.01	30.515		
5,100.00	5,064.37	4,979.72	4,954.49	20.41	19.29	153.65	-631.84	-116.87	1,119.52	1,082.77	36.75	30.460		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 2AH - 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	5,163.60	5,077.59	5,051.78	20.82	19.68	153.66	-642.42	-117.87	1,140.06	1,102.56	37.49	30.406		
5,300.00	5,262.84	5,175.45	5,149.07	21.23	20.08	153.68	-652.99	-118.87	1,160.60	1,122.36	38.23	30.355		
5,400.00	5,362.07	5,273.32	5,246.36	21.64	20.48	153.70	-663.56	-119.87	1,181.13	1,142.16	38.97	30.306		
5,500.00	5,461.31	5,371.19	5,343.64	22.05	20.87	153.71	-674.14	-120.87	1,201.67	1,161.96	39.71	30.258		
5,600.00	5,560.55	5,469.06	5,440.93	22.47	21.27	153.73	-684.71	-121.87	1,222.21	1,181.75	40.45	30.212		
5,700.00	5,659.78	5,566.93	5,538.22	22.88	21.66	153.74	-695.29	-122.87	1,242.75	1,201.55	41.19	30.168		
5,800.00	5,759.02	5,664.79	5,635.51	23.29	22.06	153.76	-705.86	-123.88	1,263.28	1,221.35	41.93	30.125		
5,900.00	5,858.25	5,762.66	5,732.80	23.70	22.46	153.77	-716.43	-124.88	1,283.82	1,241.15	42.67	30.084		
6,000.00	5,957.49	5,860.53	5,830.09	24.11	22.85	153.78	-727.01	-125.88	1,304.36	1,260.95	43.42	30.044		
6,100.00	6,056.73	5,958.40	5,927.38	24.52	23.25	153.80	-737.58	-126.88	1,324.90	1,280.74	44.16	30.005		
6,200.00	6,155.96	6,056.26	6,024.67	24.93	23.65	153.81	-748.16	-127.88	1,345.44	1,300.54	44.90	29.968		
6,300.00	6,255.20	6,154.13	6,121.96	25.34	24.04	153.82	-758.73	-128.88	1,365.98	1,320.34	45.64	29.931		
6,400.00	6,354.43	6,252.00	6,219.25	25.76	24.44	153.83	-769.30	-129.88	1,386.51	1,340.14	46.38	29.896		
6,500.00	6,453.67	6,349.87	6,316.54	26.17	24.84	153.84	-779.88	-130.88	1,407.05	1,359.93	47.12	29.862		
6,600.00	6,552.91	6,447.74	6,413.83	26.58	25.23	153.85	-790.45	-131.88	1,427.59	1,379.73	47.86	29.829		
6,700.00	6,652.14	6,545.60	6,511.12	26.99	25.63	153.86	-801.03	-132.88	1,448.13	1,399.53	48.60	29.797		
6,800.00	6,751.38	6,643.47	6,608.41	27.40	26.03	153.87	-811.60	-133.88	1,468.67	1,419.33	49.34	29.766		
6,900.00	6,850.61	6,741.34	6,705.70	27.81	26.42	153.89	-822.17	-134.88	1,489.21	1,439.13	50.08	29.735		
7,000.00	6,949.85	6,839.21	6,802.99	28.22	26.82	153.89	-832.75	-135.89	1,509.75	1,458.92	50.82	29.706		
7,100.00	7,049.09	6,937.07	6,900.28	28.64	27.22	153.90	-843.32	-136.89	1,530.28	1,478.72	51.56	29.677		
7,200.00	7,148.32	7,034.13	7,000.00	29.05	35.18	124.97	-971.45	674.80	1,542.77	1,485.67	57.10	27.020		
7,300.00	7,247.89	7,131.84	7,100.00	29.42	35.25	-150.91	-971.63	679.50	1,509.40	1,450.56	58.84	25.653		
7,400.00	7,346.79	7,230.46	7,200.00	29.67	35.06	-109.56	-971.17	667.13	1,481.94	1,421.86	60.09	24.664		
7,500.00	7,442.07	7,326.06	7,299.00	29.83	34.66	-103.10	-970.08	637.75	1,461.13	1,400.29	60.84	24.015		
7,600.00	7,530.81	7,413.53	7,390.00	29.92	34.05	-100.09	-968.39	592.26	1,446.89	1,385.82	61.07	23.691		
7,700.00	7,610.33	7,490.26	7,470.00	29.97	33.31	-97.59	-966.16	532.03	1,438.41	1,377.53	60.88	23.625		
7,800.00	7,678.21	7,558.92	7,540.00	30.00	32.57	-95.18	-963.45	458.90	1,434.33	1,373.85	60.48	23.716		
7,900.00	7,732.39	7,613.65	7,595.00	30.08	31.51	-92.11	-958.31	340.94	1,432.35	1,372.79	59.56	24.049		
8,000.00	7,771.23	7,650.38	7,635.00	30.28	30.86	-89.18	-950.80	227.03	1,429.63	1,370.67	58.96	24.247		
8,100.00	7,793.53	7,675.94	7,660.00	30.66	30.49	-86.81	-942.73	136.96	1,426.52	1,367.76	58.76	24.276		
8,200.00	7,799.00	7,671.58	7,657.00	31.25	30.23	-84.83	-934.54	65.11	1,423.21	1,364.36	58.86	24.180		
8,290.26	7,799.00	7,705.26	7,623.00	32.00	30.04	-83.00	-927.85	16.83	1,421.80	1,362.60	59.20	24.015		
8,300.00	7,799.00	7,698.92	7,618.42	32.08	30.02	-82.82	-927.19	12.50	1,421.82	1,362.58	59.24	23.999		
8,400.00	7,799.00	7,641.76	7,575.04	33.13	29.86	-81.06	-921.10	-24.20	1,424.34	1,364.46	59.88	23.785		
8,500.00	7,799.00	7,596.44	7,538.19	34.37	29.72	-79.57	-916.12	-50.07	1,431.69	1,370.97	60.72	23.580		
8,600.00	7,799.00	7,560.06	7,507.20	35.78	29.61	-78.32	-912.05	-68.67	1,444.39	1,382.71	61.69	23.415		
8,700.00	7,799.00	7,530.43	7,481.13	37.33	29.52	-77.27	-908.70	-82.33	1,462.74	1,399.99	62.76	23.308		
8,800.00	7,799.00	7,500.00	7,453.65	39.00	29.42	-76.17	-905.23	-94.93	1,486.82	1,423.00	63.82	23.298 SF		
8,900.00	7,799.00	7,485.47	7,440.30	40.79	29.37	-75.64	-903.57	-100.42	1,516.48	1,451.49	64.99	23.335		
9,000.00	7,799.00	7,468.11	7,424.18	42.67	29.31	-75.00	-901.59	-106.54	1,551.60	1,485.52	66.08	23.480		
9,100.00	7,799.00	7,450.00	7,407.16	44.63	29.25	-74.32	-899.51	-112.39	1,591.90	1,524.80	67.10	23.725		
9,200.00	7,799.00	7,450.00	7,407.16	46.66	29.25	-74.32	-899.51	-112.39	1,637.11	1,568.92	68.19	24.009		
9,300.00	7,799.00	7,429.15	7,387.35	48.76	29.17	-73.54	-897.13	-118.45	1,686.71	1,617.70	69.00	24.443		
9,400.00	7,799.00	7,419.26	7,377.89	50.92	29.14	-73.17	-896.00	-121.07	1,740.53	1,670.71	69.83	24.927		
9,500.00	7,799.00	7,400.00	7,359.32	53.12	29.07	-72.44	-893.80	-125.70	1,798.27	1,727.80	70.48	25.516		
9,600.00	7,799.00	7,400.00	7,359.32	55.37	29.07	-72.44	-893.80	-125.70	1,859.32	1,788.12	71.20	26.112		
9,700.00	7,799.00	7,400.00	7,359.32	57.65	29.07	-72.44	-893.80	-125.70	1,923.64	1,851.79	71.85	26.774		
9,800.00	7,799.00	7,400.00	7,359.32	59.97	29.07	-72.44	-893.80	-125.70	1,990.90	1,918.49	72.41	27.495		
9,900.00	7,799.00	7,400.00	7,359.32	62.32	29.07	-72.44	-893.80	-125.70	2,060.82	1,987.92	72.90	28.268		
10,000.00	7,799.00	7,378.44	7,338.37	64.69	28.99	-71.62	-891.35	-130.13	2,132.72	2,059.54	73.18	29.143		
10,100.00	7,799.00	7,373.68	7,333.72	67.09	28.97	-71.44	-890.81	-131.00	2,206.99	2,133.46	73.53	30.015		
10,200.00	7,799.00	7,369.31	7,329.44	69.51	28.95	-71.28	-890.32	-131.77	2,283.19	2,209.36	73.83	30.924		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 2AH - 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	7,799.00	7,350.00	7,310.49	71.95	28.88	-70.55	-888.14	-134.76	2,361.35	2,287.36	73.99	31.916		
10,400.00	7,799.00	7,350.00	7,310.49	74.41	28.88	-70.55	-888.14	-134.76	2,440.78	2,366.53	74.25	32.874		
10,500.00	7,799.00	7,350.00	7,310.49	76.89	28.88	-70.55	-888.14	-134.76	2,521.68	2,447.21	74.47	33.862		
10,600.00	7,799.00	7,350.00	7,310.49	79.37	28.88	-70.55	-888.14	-134.76	2,603.91	2,529.24	74.67	34.874		
10,700.00	7,799.00	7,350.00	7,310.49	81.87	28.88	-70.55	-888.14	-134.76	2,687.34	2,612.50	74.84	35.910		
10,800.00	7,799.00	7,350.00	7,310.49	84.39	28.88	-70.55	-888.14	-134.76	2,771.87	2,696.88	74.98	36.967		
10,900.00	7,799.00	7,350.00	7,310.49	86.91	28.88	-70.55	-888.14	-134.76	2,857.39	2,782.28	75.11	38.042		
11,000.00	7,799.00	7,350.00	7,310.49	89.44	28.88	-70.55	-888.14	-134.76	2,943.83	2,868.61	75.22	39.135		
11,100.00	7,799.00	7,350.00	7,310.49	91.99	28.88	-70.55	-888.14	-134.76	3,031.11	2,955.79	75.32	40.243		
11,200.00	7,799.00	7,350.00	7,310.49	94.54	28.88	-70.55	-888.14	-134.76	3,119.15	3,043.74	75.41	41.365		
11,300.00	7,799.00	7,350.00	7,310.49	97.10	28.88	-70.55	-888.14	-134.76	3,207.88	3,132.41	75.48	42.500		
11,400.00	7,799.00	7,350.00	7,310.49	99.66	28.88	-70.55	-888.14	-134.76	3,297.27	3,221.72	75.54	43.647		
11,500.00	7,799.00	7,350.00	7,310.49	102.24	28.88	-70.55	-888.14	-134.76	3,387.25	3,311.65	75.60	44.804		
11,600.00	7,799.00	7,350.00	7,310.49	104.82	28.88	-70.55	-888.14	-134.76	3,477.77	3,402.12	75.65	45.971		
11,700.00	7,799.00	7,350.00	7,310.49	107.40	28.88	-70.55	-888.14	-134.76	3,568.80	3,493.11	75.69	47.147		
11,800.00	7,799.00	7,329.04	7,289.82	109.99	28.80	-69.75	-885.79	-137.28	3,659.89	3,584.27	75.62	48.399		
11,900.00	7,799.00	7,327.57	7,288.36	112.58	28.79	-70.08	-885.63	-137.42	3,751.73	3,676.09	75.65	49.596		
12,000.00	7,799.00	7,326.22	7,287.03	115.17	28.79	-72.16	-885.48	-137.56	3,842.71	3,767.05	75.67	50.786		
12,100.00	7,799.00	7,325.01	7,285.84	117.74	28.78	-73.86	-885.34	-137.67	3,932.02	3,856.35	75.67	51.961		
12,200.00	7,799.00	7,323.94	7,284.78	120.27	28.78	-75.27	-885.22	-137.77	4,019.54	3,943.87	75.67	53.123		
12,300.00	7,799.00	7,323.00	7,283.85	122.76	28.78	-76.46	-885.12	-137.86	4,105.14	4,029.50	75.64	54.272		
12,400.00	7,799.00	7,322.19	7,283.04	125.19	28.77	-77.47	-885.03	-137.93	4,188.71	4,113.12	75.59	55.410		
12,500.00	7,799.00	7,321.49	7,282.35	127.57	28.77	-78.34	-884.95	-138.00	4,270.17	4,194.64	75.52	56.541		
12,600.00	7,799.00	7,300.00	7,261.05	129.88	28.69	-78.33	-882.57	-139.51	4,350.09	4,274.78	75.31	57.760		
12,700.00	7,799.00	7,300.00	7,261.05	132.19	28.69	-78.33	-882.57	-139.51	4,429.90	4,354.68	75.22	58.893		
12,800.00	7,799.00	7,300.00	7,261.05	134.50	28.69	-78.33	-882.57	-139.51	4,510.51	4,435.39	75.13	60.040		
12,900.00	7,799.00	7,300.00	7,261.05	136.83	28.69	-78.33	-882.57	-139.51	4,591.89	4,516.86	75.03	61.199		
13,000.00	7,799.00	7,300.00	7,261.05	139.16	28.69	-78.33	-882.57	-139.51	4,673.99	4,599.05	74.94	62.370		
13,100.00	7,799.00	7,300.00	7,261.05	141.50	28.69	-78.33	-882.57	-139.51	4,756.77	4,681.92	74.85	63.552		
13,200.00	7,799.00	7,300.00	7,261.05	143.84	28.69	-78.33	-882.57	-139.51	4,840.21	4,765.45	74.76	64.745		
13,300.00	7,799.00	7,300.00	7,261.05	146.19	28.69	-78.33	-882.57	-139.51	4,924.26	4,849.59	74.67	65.947		
13,400.00	7,799.00	7,300.00	7,261.05	148.55	28.69	-78.33	-882.57	-139.51	5,008.90	4,934.31	74.58	67.158		
13,500.00	7,799.00	7,300.00	7,261.05	150.92	28.69	-78.33	-882.57	-139.51	5,094.09	5,019.59	74.50	68.378		
13,600.00	7,799.00	7,300.00	7,261.05	153.29	28.69	-78.33	-882.57	-139.51	5,179.81	5,105.40	74.42	69.606		
13,700.00	7,799.00	7,300.00	7,261.05	155.66	28.69	-78.33	-882.57	-139.51	5,266.04	5,191.71	74.34	70.842		
13,800.00	7,799.00	7,300.00	7,261.05	158.04	28.69	-78.33	-882.57	-139.51	5,352.75	5,278.49	74.26	72.084		
13,900.00	7,799.00	7,300.00	7,261.05	160.43	28.69	-78.33	-882.57	-139.51	5,439.91	5,365.73	74.18	73.333		
14,000.00	7,799.00	7,300.00	7,261.05	162.82	28.69	-78.33	-882.57	-139.51	5,527.51	5,453.40	74.11	74.588		
14,100.00	7,799.00	7,300.00	7,261.05	165.21	28.69	-78.33	-882.57	-139.51	5,615.52	5,541.49	74.04	75.849		
14,200.00	7,799.00	7,300.00	7,261.05	167.61	28.69	-78.33	-882.57	-139.51	5,703.93	5,629.96	73.97	77.115		
14,300.00	7,799.00	7,300.00	7,261.05	170.02	28.69	-78.33	-882.57	-139.51	5,792.71	5,718.81	73.90	78.386		
14,400.00	7,799.00	7,300.00	7,261.05	172.42	28.69	-78.33	-882.57	-139.51	5,881.86	5,808.02	73.84	79.661		
14,500.00	7,799.00	7,300.00	7,261.05	174.84	28.69	-78.33	-882.57	-139.51	5,971.34	5,897.57	73.77	80.940		
14,600.00	7,799.00	7,300.00	7,261.05	177.28	28.69	-77.12	-882.57	-139.51	6,061.99	5,988.26	73.72	82.225		
14,700.00	7,799.00	7,300.00	7,261.05	179.78	28.69	-75.33	-882.57	-139.51	6,154.89	6,081.19	73.70	83.515		
14,800.00	7,799.00	7,300.00	7,261.05	182.34	28.69	-72.86	-882.57	-139.51	6,249.72	6,176.04	73.69	84.812		
14,900.00	7,799.00	7,300.00	7,261.05	184.94	28.69	-69.32	-882.57	-139.51	6,346.15	6,272.45	73.70	86.113		
15,000.00	7,799.00	7,300.00	7,261.05	187.56	28.69	-63.86	-882.57	-139.51	6,443.83	6,370.12	73.71	87.418		
15,100.00	7,799.00	7,300.00	7,261.05	190.21	28.69	-54.67	-882.57	-139.51	6,542.46	6,468.72	73.74	88.724		
15,200.00	7,799.00	7,300.00	7,261.05	192.85	28.69	-48.65	-882.57	-139.51	6,641.65	6,567.88	73.77	90.029		
15,300.00	7,799.00	7,300.00	7,261.05	195.50	28.69	-48.65	-882.57	-139.51	6,740.92	6,667.11	73.81	91.333		
15,400.00	7,799.00	7,300.00	7,261.05	198.16	28.69	-48.65	-882.57	-139.51	6,840.20	6,766.36	73.84	92.635		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSAS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSAS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSAS 5-64 5-4-3 2AH - 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	
15,500.00	7,799.00	7,300.00	7,261.05	200.81	28.69	-48.65	-882.57	-139.51	6,939.51	6,865.64	73.88	93.936	
15,600.00	7,799.00	7,300.00	7,261.05	203.46	28.69	-48.65	-882.57	-139.51	7,038.84	6,964.93	73.91	95.234	
15,700.00	7,799.00	7,300.00	7,261.05	206.11	28.69	-48.65	-882.57	-139.51	7,138.18	7,064.24	73.95	96.531	
15,800.00	7,799.00	7,300.00	7,261.05	208.77	28.69	-48.65	-882.57	-139.51	7,237.55	7,163.56	73.98	97.826	
15,900.00	7,799.00	7,300.00	7,261.05	211.43	28.69	-48.65	-882.57	-139.51	7,336.93	7,262.90	74.02	99.119	
16,000.00	7,799.00	7,300.00	7,261.05	214.08	28.69	-48.65	-882.57	-139.51	7,436.32	7,362.26	74.06	100.410	
16,100.00	7,799.00	7,300.00	7,261.05	216.74	28.69	-48.65	-882.57	-139.51	7,535.74	7,461.64	74.10	101.699	
16,200.00	7,799.00	7,300.00	7,261.05	219.40	28.69	-48.65	-882.57	-139.51	7,635.16	7,561.03	74.14	102.986	
16,300.00	7,799.00	7,300.00	7,261.05	222.06	28.69	-48.65	-882.57	-139.51	7,734.61	7,660.43	74.18	104.271	
16,400.00	7,799.00	7,300.00	7,261.05	224.72	28.69	-48.65	-882.57	-139.51	7,834.06	7,759.85	74.22	105.553	
16,500.00	7,799.00	7,300.00	7,261.05	227.38	28.69	-48.65	-882.57	-139.51	7,933.54	7,859.28	74.26	106.834	
16,600.00	7,799.00	7,300.00	7,261.05	230.04	28.69	-48.65	-882.57	-139.51	8,033.02	7,958.72	74.30	108.113	
16,700.00	7,799.00	7,300.00	7,261.05	232.70	28.69	-48.65	-882.57	-139.51	8,132.52	8,058.17	74.35	109.389	
16,800.00	7,799.00	7,300.00	7,261.05	235.36	28.69	-48.65	-882.57	-139.51	8,232.02	8,157.64	74.39	110.663	
16,900.00	7,799.00	7,300.00	7,261.05	238.03	28.69	-48.65	-882.57	-139.51	8,331.55	8,257.11	74.43	111.935	
17,000.00	7,799.00	7,300.00	7,261.05	240.69	28.69	-48.65	-882.57	-139.51	8,431.08	8,356.60	74.48	113.204	
17,100.00	7,799.00	7,300.00	7,261.05	243.36	28.69	-48.65	-882.57	-139.51	8,530.62	8,456.10	74.52	114.471	
17,200.00	7,799.00	7,300.00	7,261.05	246.02	28.69	-48.65	-882.57	-139.51	8,630.17	8,555.61	74.57	115.736	
17,300.00	7,799.00	7,300.00	7,261.05	248.69	28.69	-48.65	-882.57	-139.51	8,729.74	8,655.12	74.61	116.998	
17,400.00	7,799.00	7,300.00	7,261.05	251.35	28.69	-48.65	-882.57	-139.51	8,829.31	8,754.65	74.66	118.258	
17,500.00	7,799.00	7,300.00	7,261.05	254.02	28.69	-48.65	-882.57	-139.51	8,928.89	8,854.19	74.71	119.516	
17,600.00	7,799.00	7,300.00	7,261.05	256.69	28.69	-48.65	-882.57	-139.51	9,028.49	8,953.73	74.76	120.771	
17,700.00	7,799.00	7,300.00	7,261.05	259.35	28.69	-48.65	-882.57	-139.51	9,128.09	9,053.28	74.81	122.024	
17,800.00	7,799.00	7,300.00	7,261.05	262.02	28.69	-48.65	-882.57	-139.51	9,227.70	9,152.84	74.86	123.274	
17,900.00	7,799.00	7,300.00	7,261.05	264.69	28.69	-48.65	-882.57	-139.51	9,327.32	9,252.41	74.91	124.521	
18,000.00	7,799.00	7,300.00	7,261.05	267.36	28.69	-48.65	-882.57	-139.51	9,426.94	9,351.99	74.96	125.766	
18,100.00	7,799.00	7,300.00	7,261.05	270.03	28.69	-48.65	-882.57	-139.51	9,526.58	9,451.57	75.01	127.009	
18,200.00	7,799.00	7,300.00	7,261.05	272.70	28.69	-48.65	-882.57	-139.51	9,626.22	9,551.16	75.06	128.249	
18,300.00	7,799.00	7,300.00	7,261.05	275.37	28.69	-48.65	-882.57	-139.51	9,725.87	9,650.76	75.11	129.486	
18,400.00	7,799.00	7,300.00	7,261.05	278.04	28.69	-48.65	-882.57	-139.51	9,825.52	9,750.36	75.16	130.720	
18,464.45	7,799.00	7,300.00	7,261.05	279.17	28.69	-48.65	-882.57	-139.51	9,889.76	9,810.76	79.00	125.190	

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 2BH - 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	3.07	-3.07	0.00	0.00	-156.23	-182.86	-80.53	199.81					
100.00	100.00	103.07	96.93	0.14	0.15	-156.23	-182.86	-80.53	199.81	199.53	0.28	704.934		
200.00	200.00	203.07	196.93	0.49	0.51	-156.23	-182.86	-80.53	199.81	198.81	1.00	199.732 CC, ES		
300.00	299.98	303.09	296.91	0.85	0.86	144.37	-182.86	-80.53	201.23	199.51	1.72	117.301		
400.00	399.84	396.77	396.77	1.21	1.20	145.17	-182.86	-80.53	205.50	203.09	2.41	85.157		
500.00	499.45	490.19	490.18	1.58	1.52	146.19	-184.28	-80.61	214.12	211.01	3.11	68.875		
600.00	598.75	582.54	582.41	1.97	1.83	147.22	-188.67	-80.85	228.36	224.56	3.80	60.087		
700.00	697.98	674.03	673.62	2.37	2.15	147.96	-195.94	-81.24	245.99	241.51	4.48	54.901		
800.00	797.22	764.57	763.59	2.77	2.48	148.33	-205.99	-81.78	266.47	261.31	5.16	51.643		
900.00	896.46	853.99	852.10	3.17	2.83	148.40	-218.71	-82.46	289.73	283.89	5.84	49.642		
1,000.00	995.69	942.15	938.92	3.58	3.19	148.24	-233.93	-83.28	315.70	309.19	6.51	48.508		
1,100.00	1,094.93	1,033.42	1,028.35	3.98	3.59	147.91	-252.14	-84.26	344.03	336.83	7.20	47.754		
1,200.00	1,194.16	1,129.20	1,122.12	4.39	4.02	147.59	-271.61	-85.31	372.73	364.80	7.93	47.008		
1,300.00	1,293.40	1,224.97	1,215.89	4.80	4.47	147.32	-291.08	-86.36	401.44	392.77	8.66	46.333		
1,400.00	1,392.64	1,320.75	1,309.66	5.21	4.92	147.08	-310.55	-87.41	430.15	420.75	9.40	45.750		
1,500.00	1,491.87	1,416.52	1,403.43	5.62	5.37	146.88	-330.02	-88.46	458.87	448.73	10.14	45.239		
1,600.00	1,591.11	1,512.30	1,497.20	6.03	5.83	146.69	-349.49	-89.51	487.60	476.71	10.89	44.788		
1,700.00	1,690.34	1,608.07	1,590.97	6.44	6.29	146.53	-368.95	-90.55	516.33	504.69	11.63	44.388		
1,800.00	1,789.58	1,703.85	1,684.74	6.85	6.76	146.39	-388.42	-91.60	545.06	532.68	12.38	44.030		
1,900.00	1,888.82	1,800.38	1,778.50	7.26	7.23	146.26	-407.89	-92.65	573.79	560.66	13.13	43.700		
2,000.00	1,988.05	1,904.61	1,872.27	7.67	7.74	146.14	-427.36	-93.70	602.53	588.62	13.91	43.305		
2,100.00	2,087.29	2,008.83	1,966.04	8.08	8.25	146.03	-446.83	-94.75	631.27	616.57	14.70	42.951		
2,200.00	2,186.52	2,086.94	2,059.81	8.49	8.63	145.93	-466.30	-95.79	660.01	644.63	15.38	42.919		
2,300.00	2,285.76	2,182.72	2,153.58	8.90	9.10	145.84	-485.77	-96.84	688.75	672.62	16.13	42.701		
2,400.00	2,385.00	2,278.49	2,247.35	9.31	9.58	145.76	-505.24	-97.89	717.50	700.62	16.88	42.501		
2,500.00	2,484.23	2,374.27	2,341.12	9.72	10.05	145.68	-524.71	-98.94	746.24	728.61	17.63	42.317		
2,600.00	2,583.47	2,470.04	2,434.89	10.13	10.52	145.61	-544.18	-99.99	774.99	756.60	18.39	42.147		
2,700.00	2,682.70	2,565.82	2,528.66	10.54	11.00	145.55	-563.65	-101.04	803.74	784.60	19.14	41.989		
2,800.00	2,781.94	2,661.59	2,622.43	10.95	11.47	145.49	-583.12	-102.08	832.49	812.59	19.90	41.843		
2,900.00	2,881.18	2,757.37	2,716.20	11.36	11.95	145.43	-602.59	-103.13	861.24	840.59	20.65	41.707		
3,000.00	2,980.41	2,853.14	2,809.97	11.77	12.42	145.38	-622.05	-104.18	889.99	868.58	21.40	41.580		
3,100.00	3,079.65	2,948.92	2,903.73	12.19	12.90	145.33	-641.52	-105.23	918.74	896.58	22.16	41.461		
3,200.00	3,178.88	3,044.69	2,997.50	12.60	13.38	145.28	-660.99	-106.28	947.49	924.58	22.91	41.349		
3,300.00	3,278.12	3,140.47	3,091.27	13.01	13.85	145.24	-680.46	-107.32	976.24	952.57	23.67	41.245		
3,400.00	3,377.36	3,236.24	3,185.04	13.42	14.33	145.20	-699.93	-108.37	1,004.99	980.57	24.43	41.146		
3,500.00	3,476.59	3,332.02	3,278.81	13.83	14.81	145.16	-719.40	-109.42	1,033.75	1,008.57	25.18	41.053		
3,600.00	3,575.83	3,427.79	3,372.58	14.24	15.28	145.12	-738.87	-110.47	1,062.50	1,036.56	25.94	40.965		
3,700.00	3,675.06	3,523.57	3,466.35	14.65	15.76	145.08	-758.34	-111.52	1,091.25	1,064.56	26.69	40.882		
3,800.00	3,774.30	3,619.34	3,560.12	15.06	16.24	145.05	-777.81	-112.57	1,120.01	1,092.56	27.45	40.803		
3,900.00	3,873.53	3,715.12	3,653.89	15.47	16.71	145.02	-797.28	-113.61	1,148.76	1,120.56	28.21	40.728		
4,000.00	3,972.77	3,810.89	3,747.66	15.89	17.19	144.99	-816.75	-114.66	1,177.52	1,148.56	28.96	40.657		
4,100.00	4,072.01	3,906.67	3,841.43	16.30	17.67	144.96	-836.22	-115.71	1,206.27	1,176.55	29.72	40.589		
4,200.00	4,171.24	4,002.44	3,935.20	16.71	18.15	144.93	-855.69	-116.76	1,235.03	1,204.55	30.48	40.525		
4,300.00	4,270.48	4,101.78	4,028.97	17.12	18.64	144.91	-875.15	-117.81	1,263.78	1,232.54	31.25	40.445		
4,400.00	4,369.71	4,206.01	4,122.73	17.53	19.16	144.88	-894.62	-118.86	1,292.54	1,260.50	32.04	40.343		
4,500.00	4,468.95	4,289.77	4,216.50	17.94	19.58	144.86	-914.09	-119.90	1,321.30	1,288.55	32.75	40.348		
4,600.00	4,568.19	4,385.54	4,310.27	18.35	20.06	144.83	-933.56	-120.95	1,350.05	1,316.55	33.50	40.294		
4,700.00	4,667.42	4,481.32	4,404.04	18.76	20.54	144.81	-953.03	-122.00	1,378.81	1,344.55	34.26	40.243		
4,800.00	4,766.66	4,577.09	4,497.81	19.18	21.02	144.79	-972.50	-123.05	1,407.57	1,372.55	35.02	40.193		
4,900.00	4,865.89	4,672.86	4,591.58	19.59	21.49	144.77	-991.97	-124.10	1,436.32	1,400.54	35.78	40.145		
5,000.00	4,965.13	4,768.64	4,685.35	20.00	21.97	144.75	-1,011.44	-125.14	1,465.08	1,428.54	36.54	40.100		
5,100.00	5,064.37	4,864.41	4,779.12	20.41	22.45	144.73	-1,030.91	-126.19	1,493.84	1,456.54	37.29	40.056		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 2BH - 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	5,163.60	4,960.19	4,872.89	20.82	22.93	144.71	-1,050.38	-127.24	1,522.59	1,484.54	38.05	40.013		
5,300.00	5,262.84	5,055.96	4,966.66	21.23	23.41	144.70	-1,069.85	-128.29	1,551.35	1,512.54	38.81	39.973		
5,400.00	5,362.07	5,151.74	5,060.43	21.64	23.89	144.68	-1,089.32	-129.34	1,580.11	1,540.54	39.57	39.933		
5,500.00	5,461.31	5,247.51	5,154.20	22.05	24.37	144.66	-1,108.79	-130.39	1,608.87	1,568.54	40.33	39.895		
5,600.00	5,560.55	5,343.29	5,247.97	22.47	24.84	144.65	-1,128.26	-131.43	1,637.62	1,596.54	41.09	39.858		
5,700.00	5,659.78	5,439.06	5,341.73	22.88	25.32	144.63	-1,147.72	-132.48	1,666.38	1,624.54	41.84	39.823		
5,800.00	5,759.02	5,534.84	5,435.50	23.29	25.80	144.62	-1,167.19	-133.53	1,695.14	1,652.54	42.60	39.789		
5,900.00	5,858.25	5,630.61	5,529.27	23.70	26.28	144.61	-1,186.66	-134.58	1,723.90	1,680.54	43.36	39.755		
6,000.00	5,957.49	5,726.39	5,623.04	24.11	26.76	144.59	-1,206.13	-135.63	1,752.66	1,708.53	44.12	39.723		
6,100.00	6,056.73	5,822.16	5,716.81	24.52	27.24	144.58	-1,225.60	-136.67	1,781.41	1,736.53	44.88	39.692		
6,200.00	6,155.96	5,917.94	5,810.58	24.93	27.72	144.57	-1,245.07	-137.72	1,810.17	1,764.53	45.64	39.662		
6,300.00	6,255.20	6,013.71	5,904.35	25.34	28.20	144.55	-1,264.54	-138.77	1,838.93	1,792.53	46.40	39.632		
6,400.00	6,354.43	6,109.49	5,998.12	25.76	28.68	144.54	-1,284.01	-139.82	1,867.69	1,820.53	47.16	39.604		
6,500.00	6,453.67	6,205.26	6,091.89	26.17	29.16	144.53	-1,303.48	-140.87	1,896.45	1,848.53	47.92	39.576		
6,600.00	6,552.91	6,301.04	6,185.66	26.58	29.63	144.52	-1,322.95	-141.92	1,925.21	1,876.53	48.68	39.549		
6,700.00	6,652.14	6,403.19	6,279.43	26.99	30.15	144.51	-1,342.42	-142.96	1,953.97	1,904.50	49.46	39.502		
6,800.00	6,751.38	6,507.41	6,373.20	27.40	30.67	144.50	-1,361.89	-144.01	1,982.72	1,932.47	50.26	39.450		
6,900.00	6,850.61	6,588.36	6,466.96	27.81	31.07	144.49	-1,381.36	-145.06	2,011.48	1,960.52	50.96	39.473		
7,000.00	6,949.85	6,684.14	6,560.73	28.22	31.55	144.48	-1,400.82	-146.11	2,040.24	1,988.52	51.72	39.448		
7,100.00	7,049.09	6,779.91	6,654.50	28.64	32.03	144.47	-1,420.29	-147.16	2,069.00	2,016.52	52.48	39.425		
7,200.00	7,148.32	6,875.69	6,748.27	29.05	32.51	144.46	-1,439.76	-148.20	2,097.76	2,044.52	53.24	39.402		
7,300.00	7,247.89	6,971.82	6,842.39	29.42	32.99	-126.57	-1,459.30	-149.26	2,124.34	2,070.38	53.96	39.366		
7,400.00	7,346.79	7,067.41	6,935.99	29.67	33.47	-81.58	-1,478.74	-150.30	2,144.14	2,089.55	54.59	39.280		
7,500.00	7,442.07	7,159.61	7,026.25	29.83	33.93	-73.85	-1,497.48	-151.31	2,156.88	2,101.77	55.12	39.134		
7,600.00	7,530.81	7,250.86	7,119.00	29.92	34.39	-66.36	-1,516.34	-152.34	2,168.57	2,113.46	55.71	38.988		
7,700.00	7,610.33	7,344.61	7,219.00	29.97	34.84	-59.05	-1,535.20	-153.33	2,180.26	2,125.15	56.29	38.842		
7,800.00	7,678.21	7,431.44	7,299.00	30.00	35.29	-52.02	-1,554.06	-154.33	2,191.95	2,136.84	56.87	38.696		
7,900.00	7,732.39	7,512.74	7,370.71	30.08	35.74	-45.17	-1,572.92	-155.33	2,203.64	2,148.53	57.45	38.550		
8,000.00	7,771.23	7,584.57	7,446.45	30.28	36.19	-38.18	-1,591.78	-156.33	2,215.33	2,160.22	58.03	38.404		
8,100.00	7,793.53	7,648.00	7,494.52	30.66	36.64	-31.02	-1,610.64	-157.33	2,227.02	2,171.91	58.61	38.258		
8,200.00	7,799.00	7,685.15	7,500.00	31.25	37.09	-24.00	-1,629.50	-158.33	2,238.71	2,183.60	59.19	38.112		
8,300.00	7,799.00	7,712.74	7,500.00	32.08	37.54	-17.00	-1,648.36	-159.33	2,250.40	2,195.29	59.77	37.966		
8,400.00	7,799.00	7,740.33	7,500.00	33.13	37.99	-10.00	-1,667.22	-160.33	2,262.09	2,206.98	60.35	37.820		
8,432.42	7,799.00	7,767.92	7,500.00	33.53	38.44	-3.00	-1,686.08	-161.33	2,273.78	2,218.67	60.93	37.674		
8,500.00	7,799.00	7,795.51	7,500.00	34.37	38.89	4.00	-1,704.94	-162.33	2,285.47	2,230.36	61.51	37.528		
8,600.00	7,799.00	7,823.10	7,500.00	35.78	39.34	11.00	-1,723.80	-163.33	2,297.16	2,242.05	62.09	37.382		
8,700.00	7,799.00	7,850.69	7,500.00	37.33	39.79	18.00	-1,742.66	-164.33	2,308.85	2,253.74	62.67	37.236		
8,800.00	7,799.00	7,878.28	7,500.00	39.00	40.24	25.00	-1,761.52	-165.33	2,320.54	2,265.43	63.25	37.090		
8,900.00	7,799.00	7,905.87	7,500.00	40.79	40.69	32.00	-1,780.38	-166.33	2,332.23	2,277.12	63.83	36.944		
9,000.00	7,799.00	7,933.46	7,500.00	42.67	41.14	39.00	-1,799.24	-167.33	2,343.92	2,288.81	64.41	36.798		
9,100.00	7,799.00	7,961.05	7,500.00	44.63	41.59	46.00	-1,818.10	-168.33	2,355.61	2,300.50	64.99	36.652		
9,200.00	7,799.00	7,988.64	7,500.00	46.66	42.04	53.00	-1,836.96	-169.33	2,367.30	2,312.19	65.57	36.506		
9,300.00	7,799.00	8,016.23	7,500.00	48.76	42.49	60.00	-1,855.82	-170.33	2,378.99	2,323.88	66.15	36.360		
9,400.00	7,799.00	8,043.82	7,500.00	50.92	42.94	67.00	-1,874.68	-171.33	2,390.68	2,335.57	66.73	36.214		
9,500.00	7,799.00	8,071.41	7,500.00	53.12	43.39	74.00	-1,893.54	-172.33	2,402.37	2,347.26	67.31	36.068		
9,600.00	7,799.00	8,099.00	7,500.00	55.37	43.84	81.00	-1,912.40	-173.33	2,414.06	2,358.95	67.89	35.922		
9,700.00	7,799.00	8,126.59	7,500.00	57.65	44.29	88.00	-1,931.26	-174.33	2,425.75	2,370.64	68.47	35.776		
9,800.00	7,799.00	8,154.18	7,500.00	59.97	44.74	95.00	-1,950.12	-175.33	2,437.44	2,382.33	69.05	35.630		
9,900.00	7,799.00	8,181.77	7,500.00	62.32	45.19	102.00	-1,968.98	-176.33	2,449.13	2,394.02	69.63	35.484		
10,000.00	7,799.00	8,209.36	7,500.00	64.69	45.64	109.00	-1,987.84	-177.33	2,460.82	2,405.71	70.21	35.338		
10,100.00	7,799.00	8,236.95	7,500.00	67.09	46.09	116.00	-2,006.70	-178.33	2,472.51	2,417.40	70.79	35.192		
10,200.00	7,799.00	8,264.54	7,500.00	69.51	46.54	123.00	-2,025.56	-179.33	2,484.20	2,429.09	71.37	35.046		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 2BH - 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	7,799.00	7,400.00	7,261.60	71.95	35.13	-75.28	-1,546.37	-153.33	2,803.00	2,717.55	85.45	32.802		
10,400.00	7,799.00	7,400.00	7,261.60	74.41	35.13	-75.28	-1,546.37	-153.33	2,870.11	2,783.84	86.27	33.270		
10,500.00	7,799.00	7,400.00	7,261.60	76.89	35.13	-75.28	-1,546.37	-153.33	2,939.10	2,852.07	87.02	33.774		
10,600.00	7,799.00	7,400.00	7,261.60	79.37	35.13	-75.28	-1,546.37	-153.33	3,009.82	2,922.10	87.72	34.312		
10,700.00	7,799.00	7,400.00	7,261.60	81.87	35.13	-75.28	-1,546.37	-153.33	3,082.17	2,993.81	88.36	34.881		
10,800.00	7,799.00	7,400.00	7,261.60	84.39	35.13	-75.28	-1,546.37	-153.33	3,156.03	3,067.07	88.96	35.478		
10,900.00	7,799.00	7,400.00	7,261.60	86.91	35.13	-75.28	-1,546.37	-153.33	3,231.30	3,141.79	89.51	36.101		
11,000.00	7,799.00	7,400.00	7,261.60	89.44	35.13	-75.28	-1,546.37	-153.33	3,307.87	3,217.86	90.01	36.749		
11,100.00	7,799.00	7,400.00	7,261.60	91.99	35.13	-75.28	-1,546.37	-153.33	3,385.67	3,295.19	90.48	37.419		
11,200.00	7,799.00	7,400.00	7,261.60	94.54	35.13	-75.28	-1,546.37	-153.33	3,464.61	3,373.70	90.91	38.110		
11,300.00	7,799.00	7,400.00	7,261.60	97.10	35.13	-75.28	-1,546.37	-153.33	3,544.61	3,453.30	91.31	38.820		
11,400.00	7,799.00	7,400.00	7,261.60	99.66	35.13	-75.28	-1,546.37	-153.33	3,625.61	3,533.93	91.68	39.547		
11,500.00	7,799.00	7,400.00	7,261.60	102.24	35.13	-75.28	-1,546.37	-153.33	3,707.53	3,615.51	92.02	40.291		
11,600.00	7,799.00	7,400.00	7,261.60	104.82	35.13	-75.28	-1,546.37	-153.33	3,790.32	3,697.98	92.33	41.050		
11,700.00	7,799.00	7,400.00	7,261.60	107.40	35.13	-75.28	-1,546.37	-153.33	3,873.92	3,781.29	92.63	41.824		
11,800.00	7,799.00	7,400.00	7,261.60	109.99	35.13	-75.28	-1,546.37	-153.33	3,958.28	3,865.39	92.90	42.610		
11,900.00	7,799.00	7,400.00	7,261.60	112.58	35.13	-75.47	-1,546.37	-153.33	4,043.33	3,950.18	93.15	43.408		
12,000.00	7,799.00	7,400.00	7,261.60	115.17	35.13	-76.59	-1,546.37	-153.33	4,127.31	4,033.93	93.38	44.197		
12,100.00	7,799.00	7,400.00	7,261.60	117.74	35.13	-77.55	-1,546.37	-153.33	4,209.21	4,115.60	93.61	44.965		
12,200.00	7,799.00	7,400.00	7,261.60	120.27	35.13	-78.38	-1,546.37	-153.33	4,288.92	4,195.10	93.82	45.714		
12,300.00	7,799.00	7,400.00	7,261.60	122.76	35.13	-79.09	-1,546.37	-153.33	4,366.36	4,272.35	94.01	46.445		
12,400.00	7,799.00	7,400.00	7,261.60	125.19	35.13	-79.72	-1,546.37	-153.33	4,441.42	4,347.25	94.17	47.162		
12,500.00	7,799.00	7,400.00	7,261.60	127.57	35.13	-80.27	-1,546.37	-153.33	4,514.04	4,419.73	94.31	47.866		
12,600.00	7,799.00	7,400.00	7,261.60	129.88	35.13	-80.56	-1,546.37	-153.33	4,584.46	4,490.05	94.40	48.563		
12,700.00	7,799.00	7,400.00	7,261.60	132.19	35.13	-80.56	-1,546.37	-153.33	4,655.35	4,560.87	94.49	49.270		
12,800.00	7,799.00	7,400.00	7,261.60	134.50	35.13	-80.56	-1,546.37	-153.33	4,727.30	4,632.75	94.56	49.995		
12,900.00	7,799.00	7,400.00	7,261.60	136.83	35.13	-80.56	-1,546.37	-153.33	4,800.26	4,705.65	94.61	50.736		
13,000.00	7,799.00	7,400.00	7,261.60	139.16	35.13	-80.56	-1,546.37	-153.33	4,874.17	4,779.51	94.66	51.492		
13,100.00	7,799.00	7,400.00	7,261.60	141.50	35.13	-80.56	-1,546.37	-153.33	4,949.01	4,854.31	94.70	52.262		
13,200.00	7,799.00	7,400.00	7,261.60	143.84	35.13	-80.56	-1,546.37	-153.33	5,024.71	4,929.99	94.72	53.046		
13,300.00	7,799.00	7,400.00	7,261.60	146.19	35.13	-80.56	-1,546.37	-153.33	5,101.26	5,006.51	94.74	53.843		
13,400.00	7,799.00	7,400.00	7,261.60	148.55	35.13	-80.56	-1,546.37	-153.33	5,178.60	5,083.85	94.76	54.652		
13,500.00	7,799.00	7,400.00	7,261.60	150.92	35.13	-80.56	-1,546.37	-153.33	5,256.71	5,161.95	94.76	55.474		
13,600.00	7,799.00	7,400.00	7,261.60	153.29	35.13	-80.56	-1,546.37	-153.33	5,335.55	5,240.79	94.76	56.307		
13,700.00	7,799.00	7,400.00	7,261.60	155.66	35.13	-80.56	-1,546.37	-153.33	5,415.09	5,320.33	94.75	57.150		
13,800.00	7,799.00	7,400.00	7,261.60	158.04	35.13	-80.56	-1,546.37	-153.33	5,495.29	5,400.55	94.74	58.004		
13,900.00	7,799.00	7,400.00	7,261.60	160.43	35.13	-80.56	-1,546.37	-153.33	5,576.14	5,481.42	94.72	58.867		
14,000.00	7,799.00	7,400.00	7,261.60	162.82	35.13	-80.56	-1,546.37	-153.33	5,657.60	5,562.89	94.70	59.740		
14,100.00	7,799.00	7,400.00	7,261.60	165.21	35.13	-80.56	-1,546.37	-153.33	5,739.64	5,644.96	94.68	60.622		
14,200.00	7,799.00	7,400.00	7,261.60	167.61	35.13	-80.56	-1,546.37	-153.33	5,822.25	5,727.60	94.65	61.512		
14,300.00	7,799.00	7,400.00	7,261.60	170.02	35.13	-80.56	-1,546.37	-153.33	5,905.39	5,810.77	94.62	62.410		
14,400.00	7,799.00	7,400.00	7,261.60	172.42	35.13	-80.56	-1,546.37	-153.33	5,989.05	5,894.46	94.59	63.316		
14,500.00	7,799.00	7,400.00	7,261.60	174.84	35.13	-80.56	-1,546.37	-153.33	6,073.21	5,978.65	94.56	64.229		
14,600.00	7,799.00	7,400.00	7,261.60	177.28	35.13	-79.81	-1,546.37	-153.33	6,158.85	6,064.32	94.53	65.153		
14,700.00	7,799.00	7,400.00	7,261.60	179.78	35.13	-78.75	-1,546.37	-153.33	6,247.39	6,152.87	94.52	66.095		
14,800.00	7,799.00	7,400.00	7,261.60	182.34	35.13	-77.38	-1,546.37	-153.33	6,338.49	6,243.96	94.53	67.054		
14,900.00	7,799.00	7,400.00	7,261.60	184.94	35.13	-75.55	-1,546.37	-153.33	6,431.79	6,337.25	94.55	68.029		
15,000.00	7,799.00	7,400.00	7,261.60	187.56	35.13	-73.03	-1,546.37	-153.33	6,526.96	6,432.39	94.57	69.017		
15,100.00	7,799.00	7,400.00	7,261.60	190.21	35.13	-69.36	-1,546.37	-153.33	6,623.65	6,529.05	94.60	70.018		
15,200.00	7,799.00	7,400.00	7,261.60	192.85	35.13	-67.21	-1,546.37	-153.33	6,721.39	6,626.76	94.63	71.027		
15,300.00	7,799.00	7,400.00	7,261.60	195.50	35.13	-67.21	-1,546.37	-153.33	6,819.30	6,724.63	94.66	72.038		
15,400.00	7,799.00	7,400.00	7,261.60	198.16	35.13	-67.21	-1,546.37	-153.33	6,917.26	6,822.56	94.69	73.049		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 2BH - 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	7,799.00	7,400.00	7,261.60	200.81	35.13	-67.21	-1,546.37	-153.33	7,015.28	6,920.55	94.72	74.060	
15,600.00	7,799.00	7,400.00	7,261.60	203.46	35.13	-67.21	-1,546.37	-153.33	7,113.35	7,018.60	94.76	75.071	
15,700.00	7,799.00	7,400.00	7,261.60	206.11	35.13	-67.21	-1,546.37	-153.33	7,211.48	7,116.69	94.79	76.081	
15,800.00	7,799.00	7,400.00	7,261.60	208.77	35.13	-67.21	-1,546.37	-153.33	7,309.66	7,214.84	94.82	77.092	
15,900.00	7,799.00	7,400.00	7,261.60	211.43	35.13	-67.21	-1,546.37	-153.33	7,407.89	7,313.04	94.85	78.102	
16,000.00	7,799.00	7,400.00	7,261.60	214.08	35.13	-67.21	-1,546.37	-153.33	7,506.16	7,411.28	94.88	79.112	
16,100.00	7,799.00	7,400.00	7,261.60	216.74	35.13	-67.21	-1,546.37	-153.33	7,604.48	7,509.57	94.91	80.122	
16,200.00	7,799.00	7,400.00	7,261.60	219.40	35.13	-67.21	-1,546.37	-153.33	7,702.84	7,607.90	94.94	81.131	
16,300.00	7,799.00	7,400.00	7,261.60	222.06	35.13	-67.21	-1,546.37	-153.33	7,801.24	7,706.27	94.98	82.140	
16,400.00	7,799.00	7,400.00	7,261.60	224.72	35.13	-67.21	-1,546.37	-153.33	7,899.69	7,804.68	95.01	83.148	
16,500.00	7,799.00	7,400.00	7,261.60	227.38	35.13	-67.21	-1,546.37	-153.33	7,998.17	7,903.13	95.04	84.156	
16,600.00	7,799.00	7,400.00	7,261.60	230.04	35.13	-67.21	-1,546.37	-153.33	8,096.69	8,001.62	95.07	85.163	
16,700.00	7,799.00	7,400.00	7,261.60	232.70	35.13	-67.21	-1,546.37	-153.33	8,195.25	8,100.14	95.11	86.170	
16,800.00	7,799.00	7,400.00	7,261.60	235.36	35.13	-67.21	-1,546.37	-153.33	8,293.84	8,198.70	95.14	87.176	
16,900.00	7,799.00	7,400.00	7,261.60	238.03	35.13	-67.21	-1,546.37	-153.33	8,392.46	8,297.29	95.17	88.182	
17,000.00	7,799.00	7,400.00	7,261.60	240.69	35.13	-67.21	-1,546.37	-153.33	8,491.12	8,395.91	95.21	89.187	
17,100.00	7,799.00	7,400.00	7,261.60	243.36	35.13	-67.21	-1,546.37	-153.33	8,589.80	8,494.56	95.24	90.191	
17,200.00	7,799.00	7,400.00	7,261.60	246.02	35.13	-67.21	-1,546.37	-153.33	8,688.52	8,593.24	95.27	91.194	
17,300.00	7,799.00	7,400.00	7,261.60	248.69	35.13	-67.21	-1,546.37	-153.33	8,787.27	8,691.96	95.31	92.197	
17,400.00	7,799.00	7,400.00	7,261.60	251.35	35.13	-67.21	-1,546.37	-153.33	8,886.04	8,790.69	95.34	93.199	
17,500.00	7,799.00	7,400.00	7,261.60	254.02	35.13	-67.21	-1,546.37	-153.33	8,984.84	8,889.46	95.38	94.200	
17,600.00	7,799.00	7,400.00	7,261.60	256.69	35.13	-67.21	-1,546.37	-153.33	9,083.67	8,988.25	95.42	95.201	
17,700.00	7,799.00	7,400.00	7,261.60	259.35	35.13	-67.21	-1,546.37	-153.33	9,182.52	9,087.07	95.45	96.200	
17,800.00	7,799.00	7,400.00	7,261.60	262.02	35.13	-67.21	-1,546.37	-153.33	9,281.40	9,185.91	95.49	97.199	
17,900.00	7,799.00	7,400.00	7,261.60	264.69	35.13	-67.21	-1,546.37	-153.33	9,380.30	9,284.77	95.53	98.197	
18,000.00	7,799.00	7,400.00	7,261.60	267.36	35.13	-67.21	-1,546.37	-153.33	9,479.22	9,383.66	95.56	99.193	
18,100.00	7,799.00	7,400.00	7,261.60	270.03	35.13	-67.21	-1,546.37	-153.33	9,578.17	9,482.57	95.60	100.189	
18,200.00	7,799.00	7,400.00	7,261.60	272.70	35.13	-67.21	-1,546.37	-153.33	9,677.14	9,581.50	95.64	101.184	
18,300.00	7,799.00	7,400.00	7,261.60	275.37	35.13	-67.21	-1,546.37	-153.33	9,776.13	9,680.45	95.68	102.178	
18,400.00	7,799.00	7,400.00	7,261.60	278.04	35.13	-67.21	-1,546.37	-153.33	9,875.14	9,779.42	95.72	103.171	
18,464.45	7,799.00	7,400.00	7,261.60	279.17	35.13	-67.21	-1,546.37	-153.33	9,938.96	9,840.33	98.63	100.772	

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 3AH - 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	3.18	-3.18	0.00	0.00	-156.23	-201.44	-88.70	220.10					
100.00	100.00	103.18	96.82	0.14	0.15	-156.23	-201.44	-88.70	220.10	219.82	0.28	775.450		
200.00	200.00	203.18	196.82	0.49	0.51	-156.23	-201.44	-88.70	220.10	219.10	1.00	219.931	CC, ES	
300.00	299.98	296.80	296.80	0.85	0.84	144.34	-201.44	-88.70	221.52	219.83	1.69	130.851		
400.00	399.84	390.22	390.20	1.21	1.16	144.85	-202.86	-88.68	227.16	224.78	2.38	95.358		
500.00	499.45	482.75	482.63	1.58	1.48	145.38	-207.26	-88.61	238.60	235.52	3.07	77.641		
600.00	598.75	574.23	573.81	1.97	1.80	145.95	-214.55	-88.49	255.46	251.69	3.77	67.743		
700.00	697.98	664.71	663.73	2.37	2.14	146.31	-224.62	-88.33	275.55	271.10	4.46	61.828		
800.00	797.22	754.13	752.23	2.77	2.50	146.37	-237.35	-88.13	298.38	293.23	5.14	58.027		
900.00	896.46	842.31	839.08	3.17	2.87	146.18	-252.61	-87.89	323.87	318.05	5.82	55.601		
1,000.00	995.69	929.13	924.08	3.58	3.26	145.82	-270.23	-87.61	351.99	345.49	6.50	54.119		
1,100.00	1,094.93	1,014.46	1,007.07	3.98	3.67	145.33	-290.06	-87.29	382.70	375.52	7.18	53.304		
1,200.00	1,194.16	1,098.19	1,087.90	4.39	4.10	144.75	-311.90	-86.95	415.95	408.10	7.84	53.034		
1,300.00	1,293.40	1,181.23	1,167.40	4.80	4.55	144.12	-335.88	-86.57	451.68	443.17	8.51	53.082		
1,400.00	1,392.64	1,274.08	1,255.97	5.21	5.08	143.45	-363.74	-86.13	488.48	479.22	9.26	52.780		
1,500.00	1,491.87	1,366.92	1,344.53	5.62	5.62	142.87	-391.60	-85.68	525.32	515.32	10.01	52.496		
1,600.00	1,591.11	1,459.76	1,433.10	6.03	6.17	142.37	-419.45	-85.24	562.21	551.45	10.76	52.239		
1,700.00	1,690.34	1,552.61	1,521.66	6.44	6.72	141.94	-447.31	-84.80	599.13	587.61	11.52	52.007		
1,800.00	1,789.58	1,645.45	1,610.23	6.85	7.28	141.55	-475.17	-84.36	636.07	623.79	12.28	51.796		
1,900.00	1,888.82	1,738.29	1,698.79	7.26	7.84	141.20	-503.03	-83.92	673.04	660.00	13.04	51.604		
2,000.00	1,988.05	1,831.14	1,787.36	7.67	8.41	140.89	-530.88	-83.47	710.03	696.22	13.81	51.429		
2,100.00	2,087.29	1,923.98	1,875.92	8.08	8.97	140.62	-558.74	-83.03	747.03	732.46	14.57	51.269		
2,200.00	2,186.52	2,016.83	1,964.49	8.49	9.54	140.36	-586.60	-82.59	784.05	768.71	15.34	51.123		
2,300.00	2,285.76	2,109.67	2,053.05	8.90	10.11	140.13	-614.46	-82.15	821.08	804.97	16.10	50.988		
2,400.00	2,385.00	2,202.51	2,141.62	9.31	10.68	139.92	-642.31	-81.71	858.12	841.25	16.87	50.864		
2,500.00	2,484.23	2,295.36	2,230.18	9.72	11.25	139.73	-670.17	-81.26	895.16	877.53	17.64	50.749		
2,600.00	2,583.47	2,388.20	2,318.75	10.13	11.83	139.56	-698.03	-80.82	932.22	913.81	18.41	50.643		
2,700.00	2,682.70	2,481.04	2,407.31	10.54	12.40	139.39	-725.89	-80.38	969.28	950.11	19.18	50.544		
2,800.00	2,781.94	2,573.89	2,495.88	10.95	12.98	139.24	-753.74	-79.94	1,006.35	986.41	19.95	50.452		
2,900.00	2,881.18	2,666.73	2,584.44	11.36	13.55	139.10	-781.60	-79.50	1,043.43	1,022.71	20.72	50.366		
3,000.00	2,980.41	2,759.58	2,673.01	11.77	14.13	138.97	-809.46	-79.05	1,080.51	1,059.02	21.49	50.285		
3,100.00	3,079.65	2,852.42	2,761.57	12.19	14.70	138.85	-837.32	-78.61	1,117.59	1,095.34	22.26	50.210		
3,200.00	3,178.88	2,945.26	2,850.13	12.60	15.28	138.73	-865.18	-78.17	1,154.68	1,131.65	23.03	50.139		
3,300.00	3,278.12	3,038.11	2,938.70	13.01	15.86	138.62	-893.03	-77.73	1,191.78	1,167.97	23.80	50.072		
3,400.00	3,377.36	3,130.95	3,027.26	13.42	16.43	138.52	-920.89	-77.29	1,228.87	1,204.30	24.57	50.009		
3,500.00	3,476.59	3,223.79	3,115.83	13.83	17.01	138.43	-948.75	-76.84	1,265.97	1,240.63	25.35	49.949		
3,600.00	3,575.83	3,316.64	3,204.39	14.24	17.59	138.34	-976.61	-76.40	1,303.07	1,276.96	26.12	49.892		
3,700.00	3,675.06	3,409.48	3,292.96	14.65	18.17	138.25	-1,004.46	-75.96	1,340.18	1,313.29	26.89	49.839		
3,800.00	3,774.30	3,502.33	3,381.52	15.06	18.74	138.17	-1,032.32	-75.52	1,377.29	1,349.62	27.66	49.788		
3,900.00	3,873.53	3,604.83	3,470.09	15.47	19.38	138.10	-1,060.18	-75.08	1,414.39	1,385.92	28.48	49.664		
4,000.00	3,972.77	3,688.01	3,558.65	15.89	19.90	138.03	-1,088.04	-74.63	1,451.51	1,422.30	29.21	49.693		
4,100.00	4,072.01	3,780.86	3,647.22	16.30	20.48	137.96	-1,115.89	-74.19	1,488.62	1,458.64	29.98	49.649		
4,200.00	4,171.24	3,873.70	3,735.78	16.71	21.06	137.89	-1,143.75	-73.75	1,525.73	1,494.98	30.76	49.606		
4,300.00	4,270.48	3,966.54	3,824.35	17.12	21.64	137.83	-1,171.61	-73.31	1,562.85	1,531.32	31.53	49.566		
4,400.00	4,369.71	4,059.39	3,912.91	17.53	22.22	137.77	-1,199.47	-72.87	1,599.97	1,567.66	32.30	49.527		
4,500.00	4,468.95	4,152.23	4,001.48	17.94	22.80	137.71	-1,227.32	-72.42	1,637.09	1,604.01	33.08	49.490		
4,600.00	4,568.19	4,245.08	4,090.04	18.35	23.38	137.66	-1,255.18	-71.98	1,674.21	1,640.35	33.85	49.454		
4,700.00	4,667.42	4,337.92	4,178.61	18.76	23.96	137.61	-1,283.04	-71.54	1,711.33	1,676.70	34.63	49.420		
4,800.00	4,766.66	4,430.76	4,267.17	19.18	24.54	137.56	-1,310.90	-71.10	1,748.45	1,713.05	35.40	49.387		
4,900.00	4,865.89	4,523.61	4,355.74	19.59	25.12	137.51	-1,338.75	-70.66	1,785.58	1,749.40	36.18	49.355		
5,000.00	4,965.13	4,616.45	4,444.30	20.00	25.70	137.47	-1,366.61	-70.21	1,822.70	1,785.75	36.95	49.324		
5,100.00	5,064.37	4,709.29	4,532.87	20.41	26.28	137.42	-1,394.47	-69.77	1,859.83	1,822.10	37.73	49.295		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 3AH - 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	5,163.60	4,802.14	4,621.43	20.82	26.86	137.38	-1,422.33	-69.33	1,896.96	1,858.45	38.50	49.266		
5,300.00	5,262.84	4,905.02	4,709.99	21.23	27.50	137.34	-1,450.18	-68.89	1,934.08	1,894.76	39.32	49.183		
5,400.00	5,362.07	4,987.82	4,798.56	21.64	28.02	137.30	-1,478.04	-68.45	1,971.21	1,931.16	40.06	49.211		
5,500.00	5,461.31	5,080.67	4,887.12	22.05	28.60	137.26	-1,505.90	-68.00	2,008.34	1,967.51	40.83	49.185		
5,600.00	5,560.55	5,173.51	4,975.69	22.47	29.18	137.23	-1,533.76	-67.56	2,045.47	2,003.86	41.61	49.160		
5,700.00	5,659.78	5,266.36	5,064.25	22.88	29.76	137.19	-1,561.61	-67.12	2,082.60	2,040.22	42.39	49.135		
5,800.00	5,759.02	5,359.20	5,152.82	23.29	30.34	137.16	-1,589.47	-66.68	2,119.73	2,076.57	43.16	49.111		
5,900.00	5,858.25	5,452.04	5,241.38	23.70	30.92	137.13	-1,617.33	-66.24	2,156.87	2,112.93	43.94	49.088		
6,000.00	5,957.49	5,544.89	5,329.95	24.11	31.50	137.10	-1,645.19	-65.79	2,194.00	2,149.28	44.72	49.065		
6,100.00	6,056.73	5,637.73	5,418.51	24.52	32.08	137.07	-1,673.04	-65.35	2,231.13	2,185.64	45.49	49.043		
6,200.00	6,155.96	5,730.57	5,507.08	24.93	32.66	137.04	-1,700.90	-64.91	2,268.27	2,222.00	46.27	49.022		
6,300.00	6,255.20	5,823.42	5,595.64	25.34	33.24	137.01	-1,728.76	-64.47	2,305.40	2,258.35	47.05	49.001		
6,400.00	6,354.43	5,916.26	5,684.21	25.76	33.82	136.98	-1,756.62	-64.03	2,342.53	2,294.71	47.83	48.981		
6,500.00	6,453.67	6,009.11	5,772.77	26.17	34.40	136.96	-1,784.47	-63.58	2,379.67	2,331.07	48.60	48.961		
6,600.00	6,552.91	6,101.95	5,861.34	26.58	34.98	136.93	-1,812.33	-63.14	2,416.81	2,367.42	49.38	48.941		
6,700.00	6,652.14	6,205.21	5,949.90	26.99	35.63	136.90	-1,840.19	-62.70	2,453.94	2,403.74	50.21	48.877		
6,800.00	6,751.38	6,287.64	6,038.47	27.40	36.14	136.88	-1,868.05	-62.26	2,491.08	2,440.14	50.94	48.903		
6,900.00	6,850.61	6,380.48	6,127.03	27.81	36.72	136.86	-1,895.90	-61.82	2,528.21	2,476.50	51.72	48.885		
7,000.00	6,949.85	6,473.32	6,215.60	28.22	37.30	136.83	-1,923.76	-61.37	2,565.35	2,512.85	52.50	48.867		
7,100.00	7,049.09	6,566.17	6,304.16	28.64	37.88	136.81	-1,951.62	-60.93	2,602.49	2,549.21	53.28	48.850		
7,200.00	7,148.32	6,659.01	6,392.73	29.05	38.47	136.79	-1,979.48	-60.49	2,639.63	2,585.57	54.05	48.832		
7,300.00	7,247.89	6,752.10	6,481.52	29.42	39.05	-133.30	-2,007.41	-60.05	2,675.30	2,620.51	54.79	48.829		
7,400.00	7,346.79	6,844.37	6,569.54	29.67	39.62	-87.00	-2,035.09	-59.61	2,706.15	2,650.76	55.39	48.853		
7,500.00	7,442.07	6,933.05	6,654.13	29.83	40.18	-77.84	-2,061.70	-59.19	2,731.57	2,675.68	55.89	48.878		
7,600.00	7,530.81	7,015.44	6,732.73	29.92	40.70	-74.07	-2,086.42	-58.79	2,751.41	2,695.13	56.27	48.893		
7,700.00	7,610.33	7,089.04	6,802.94	29.97	41.16	-72.31	-2,108.51	-58.44	2,765.86	2,709.27	56.59	48.878		
7,800.00	7,678.21	7,151.62	6,862.63	30.00	41.55	-71.60	-2,127.28	-58.14	2,775.35	2,718.48	56.87	48.803		
7,900.00	7,732.39	7,201.27	6,909.99	30.08	41.86	-71.52	-2,142.18	-57.91	2,780.45	2,723.28	57.17	48.631		
8,000.00	7,771.23	7,236.49	6,943.58	30.28	42.08	-71.77	-2,152.75	-57.74	2,781.75	2,724.19	57.56	48.330		
8,100.00	7,793.53	7,256.20	6,962.39	30.66	42.20	-72.20	-2,158.66	-57.65	2,779.77	2,721.73	58.05	47.889		
8,200.00	7,799.00	7,260.15	6,966.16	31.25	42.23	-72.58	-2,159.85	-57.63	2,775.05	2,716.41	58.64	47.322		
8,300.00	7,799.00	7,258.99	6,965.05	32.08	42.22	-72.56	-2,159.50	-57.63	2,771.92	2,712.50	59.42	46.649		
8,336.61	7,799.00	7,258.56	6,964.65	32.46	42.22	-72.55	-2,159.37	-57.64	2,771.68	2,711.90	59.78	46.363		
8,400.00	7,799.00	7,257.83	6,963.94	33.13	42.21	-72.53	-2,159.15	-57.64	2,772.41	2,712.00	60.41	45.894		
8,500.00	7,799.00	7,256.67	6,962.84	34.37	42.20	-72.51	-2,158.80	-57.64	2,776.49	2,714.91	61.58	45.087		
8,600.00	7,799.00	7,255.51	6,961.73	35.78	42.20	-72.49	-2,158.45	-57.65	2,784.17	2,721.26	62.91	44.255		
8,700.00	7,799.00	7,254.35	6,960.62	37.33	42.19	-72.46	-2,158.10	-57.66	2,795.40	2,731.02	64.38	43.423		
8,800.00	7,799.00	7,253.19	6,959.52	39.00	42.18	-72.44	-2,157.76	-57.66	2,810.15	2,744.20	65.95	42.612		
8,900.00	7,799.00	7,252.03	6,958.41	40.79	42.18	-72.41	-2,157.41	-57.67	2,828.36	2,760.75	67.60	41.838		
9,000.00	7,799.00	7,250.86	6,957.30	42.67	42.17	-72.39	-2,157.06	-57.67	2,849.96	2,780.64	69.32	41.115		
9,100.00	7,799.00	7,249.70	6,956.19	44.63	42.16	-72.37	-2,156.71	-57.68	2,874.88	2,803.80	71.07	40.450		
9,200.00	7,799.00	7,248.54	6,955.09	46.66	42.15	-72.34	-2,156.36	-57.68	2,903.03	2,830.18	72.85	39.851		
9,300.00	7,799.00	7,247.38	6,953.98	48.76	42.15	-72.32	-2,156.02	-57.69	2,934.32	2,859.69	74.63	39.320		
9,400.00	7,799.00	7,246.22	6,952.87	50.92	42.14	-72.29	-2,155.67	-57.69	2,968.65	2,892.25	76.40	38.858		
9,500.00	7,799.00	7,245.06	6,951.77	53.12	42.13	-72.27	-2,155.32	-57.70	3,005.92	2,927.77	78.15	38.465		
9,600.00	7,799.00	7,243.90	6,950.66	55.37	42.12	-72.25	-2,154.97	-57.71	3,046.01	2,966.15	79.86	38.140		
9,700.00	7,799.00	7,242.74	6,949.55	57.65	42.12	-72.22	-2,154.62	-57.71	3,088.82	3,007.28	81.54	37.881		
9,800.00	7,799.00	7,241.58	6,948.45	59.97	42.11	-72.20	-2,154.27	-57.72	3,134.24	3,051.07	83.17	37.685		
9,900.00	7,799.00	7,240.42	6,947.34	62.32	42.10	-72.17	-2,153.93	-57.72	3,182.15	3,097.40	84.75	37.548		
10,000.00	7,799.00	7,239.26	6,946.23	64.69	42.10	-72.15	-2,153.58	-57.73	3,232.45	3,146.18	86.27	37.468		
10,100.00	7,799.00	7,238.10	6,945.12	67.09	42.09	-72.13	-2,153.23	-57.73	3,285.02	3,197.28	87.74	37.442 SF		
10,200.00	7,799.00	7,236.94	6,944.02	69.51	42.08	-72.10	-2,152.88	-57.74	3,339.76	3,250.62	89.14	37.466		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 3AH - 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	7,799.00	7,235.78	6,942.91	71.95	42.07	-72.08	-2,152.53	-57.74	3,396.56	3,306.07	90.49	37.537		
10,400.00	7,799.00	7,234.62	6,941.80	74.41	42.07	-72.05	-2,152.19	-57.75	3,455.32	3,363.55	91.77	37.652		
10,500.00	7,799.00	7,233.46	6,940.70	76.89	42.06	-72.03	-2,151.84	-57.75	3,515.94	3,422.95	92.99	37.808		
10,600.00	7,799.00	7,232.30	6,939.59	79.37	42.05	-72.01	-2,151.49	-57.76	3,578.34	3,484.18	94.16	38.003		
10,700.00	7,799.00	7,231.14	6,938.48	81.87	42.04	-71.98	-2,151.14	-57.77	3,642.40	3,547.14	95.27	38.234		
10,800.00	7,799.00	7,229.98	6,937.37	84.39	42.04	-71.96	-2,150.79	-57.77	3,708.06	3,611.74	96.32	38.498		
10,900.00	7,799.00	7,228.81	6,936.27	86.91	42.03	-71.93	-2,150.44	-57.78	3,775.22	3,677.91	97.32	38.793		
11,000.00	7,799.00	7,227.65	6,935.16	89.44	42.02	-71.91	-2,150.10	-57.78	3,843.82	3,745.55	98.26	39.118		
11,100.00	7,799.00	7,226.49	6,934.05	91.99	42.02	-71.89	-2,149.75	-57.79	3,913.76	3,814.60	99.16	39.470		
11,200.00	7,799.00	7,225.33	6,932.95	94.54	42.01	-71.86	-2,149.40	-57.79	3,984.99	3,884.98	100.01	39.847		
11,300.00	7,799.00	7,224.17	6,931.84	97.10	42.00	-71.84	-2,149.05	-57.80	4,057.43	3,956.62	100.81	40.248		
11,400.00	7,799.00	7,223.01	6,930.73	99.66	41.99	-71.81	-2,148.70	-57.80	4,131.02	4,029.45	101.57	40.671		
11,500.00	7,799.00	7,221.85	6,929.63	102.24	41.99	-71.79	-2,148.35	-57.81	4,205.70	4,103.41	102.29	41.115		
11,600.00	7,799.00	7,220.69	6,928.52	104.82	41.98	-71.77	-2,148.01	-57.82	4,281.42	4,178.45	102.97	41.579		
11,700.00	7,799.00	7,219.53	6,927.41	107.40	41.97	-71.74	-2,147.66	-57.82	4,358.11	4,254.49	103.61	42.061		
11,800.00	7,799.00	7,218.37	6,926.30	109.99	41.96	-71.72	-2,147.31	-57.83	4,435.73	4,331.51	104.22	42.560		
11,900.00	7,799.00	7,217.23	6,925.22	112.58	41.96	-71.88	-2,146.97	-57.83	4,514.19	4,409.39	104.80	43.074		
12,000.00	7,799.00	7,217.10	6,925.10	115.17	41.96	-72.99	-2,146.93	-57.83	4,591.50	4,486.12	105.37	43.573		
12,100.00	7,799.00	7,218.55	6,926.47	117.74	41.97	-73.98	-2,147.36	-57.83	4,666.47	4,560.52	105.96	44.042		
12,200.00	7,799.00	7,221.56	6,929.35	120.27	41.98	-74.88	-2,148.27	-57.81	4,739.03	4,632.49	106.54	44.480		
12,300.00	7,799.00	7,226.13	6,933.71	122.76	42.01	-75.71	-2,149.64	-57.79	4,809.07	4,701.95	107.13	44.892		
12,400.00	7,799.00	7,232.25	6,939.54	125.19	42.05	-76.46	-2,151.47	-57.76	4,876.53	4,768.82	107.70	45.278		
12,500.00	7,799.00	7,239.89	6,946.83	127.57	42.10	-77.16	-2,153.77	-57.72	4,941.30	4,833.04	108.26	45.642		
12,600.00	7,799.00	7,248.91	6,955.44	129.88	42.16	-77.60	-2,156.47	-57.68	5,003.69	4,894.88	108.80	45.988		
12,700.00	7,799.00	7,258.18	6,964.28	132.19	42.21	-77.73	-2,159.26	-57.64	5,066.60	4,957.28	109.32	46.345		
12,800.00	7,799.00	7,267.46	6,973.13	134.50	42.27	-77.87	-2,162.04	-57.59	5,130.67	5,020.85	109.82	46.719		
12,900.00	7,799.00	7,276.73	6,981.97	136.83	42.33	-78.00	-2,164.82	-57.55	5,195.87	5,085.57	110.29	47.109		
13,000.00	7,799.00	7,286.00	6,990.82	139.16	42.39	-78.14	-2,167.60	-57.50	5,262.13	5,151.39	110.75	47.515		
13,100.00	7,799.00	7,304.73	6,999.66	141.50	42.51	-78.27	-2,170.39	-57.46	5,329.44	5,218.21	111.23	47.912		
13,200.00	7,799.00	7,304.55	7,008.51	143.84	42.50	-78.41	-2,173.17	-57.42	5,397.74	5,286.15	111.59	48.371		
13,300.00	7,799.00	7,313.82	7,017.35	146.19	42.56	-78.54	-2,175.95	-57.37	5,467.00	5,355.02	111.99	48.819		
13,400.00	7,799.00	7,323.09	7,026.20	148.55	42.62	-78.68	-2,178.73	-57.33	5,537.19	5,424.83	112.36	49.280		
13,500.00	7,799.00	7,332.36	7,035.05	150.92	42.68	-78.81	-2,181.51	-57.28	5,608.27	5,495.55	112.72	49.753		
13,600.00	7,799.00	7,341.64	7,043.89	153.29	42.74	-78.94	-2,184.30	-57.24	5,680.20	5,567.13	113.07	50.238		
13,700.00	7,799.00	7,350.91	7,052.74	155.66	42.79	-79.08	-2,187.08	-57.20	5,752.96	5,639.56	113.39	50.734		
13,800.00	7,799.00	7,360.18	7,061.58	158.04	42.85	-79.21	-2,189.86	-57.15	5,826.51	5,712.80	113.71	51.240		
13,900.00	7,799.00	7,369.46	7,070.43	160.43	42.91	-79.35	-2,192.64	-57.11	5,900.82	5,786.81	114.01	51.756		
14,000.00	7,799.00	7,378.73	7,079.27	162.82	42.97	-79.48	-2,195.43	-57.06	5,975.87	5,861.57	114.30	52.282		
14,100.00	7,799.00	7,388.00	7,088.12	165.21	43.03	-79.61	-2,198.21	-57.02	6,051.62	5,937.04	114.58	52.817		
14,200.00	7,799.00	7,397.27	7,096.96	167.61	43.08	-79.75	-2,200.99	-56.98	6,128.06	6,013.21	114.84	53.360		
14,300.00	7,799.00	7,406.55	7,105.81	170.02	43.14	-79.88	-2,203.77	-56.93	6,205.15	6,090.05	115.10	53.911		
14,400.00	7,799.00	7,415.82	7,114.65	172.42	43.20	-80.02	-2,206.55	-56.89	6,282.88	6,167.53	115.35	54.470		
14,500.00	7,799.00	7,425.09	7,123.50	174.84	43.26	-80.15	-2,209.34	-56.84	6,361.21	6,245.63	115.58	55.037		
14,600.00	7,799.00	7,433.79	7,131.80	177.28	43.31	-79.66	-2,211.95	-56.80	6,441.31	6,325.50	115.81	55.621		
14,700.00	7,799.00	7,440.99	7,138.66	179.78	43.36	-78.93	-2,214.11	-56.77	6,524.84	6,408.82	116.02	56.238		
14,800.00	7,799.00	7,446.65	7,144.07	182.34	43.39	-77.98	-2,215.81	-56.74	6,611.48	6,495.26	116.21	56.890		
14,900.00	7,799.00	7,450.77	7,147.99	184.94	43.42	-76.75	-2,217.04	-56.72	6,700.88	6,584.49	116.39	57.575		
15,000.00	7,799.00	7,453.32	7,150.43	187.56	43.43	-75.11	-2,217.81	-56.71	6,792.70	6,676.17	116.53	58.291		
15,100.00	7,799.00	7,454.31	7,151.37	190.21	43.44	-72.88	-2,218.10	-56.70	6,886.59	6,769.94	116.65	59.038		
15,200.00	7,799.00	7,453.97	7,151.05	192.85	43.44	-71.65	-2,218.00	-56.71	6,981.98	6,865.25	116.74	59.810		
15,300.00	7,799.00	7,453.50	7,150.59	195.50	43.44	-71.63	-2,217.86	-56.71	7,077.65	6,960.83	116.82	60.586		
15,400.00	7,799.00	7,453.02	7,150.14	198.16	43.43	-71.62	-2,217.72	-56.71	7,173.43	7,056.53	116.90	61.363		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOS 5-64 5-4-3 3AH - 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		
15,500.00	7,799.00	7,452.54	7,149.68	200.81	43.43	-71.61	-2,217.57	-56.71	7,269.33	7,152.35	116.98	62.142		
15,600.00	7,799.00	7,452.06	7,149.22	203.46	43.43	-71.59	-2,217.43	-56.71	7,365.33	7,248.28	117.05	62.922		
15,700.00	7,799.00	7,451.58	7,148.77	206.11	43.42	-71.58	-2,217.28	-56.72	7,461.44	7,344.31	117.13	63.703		
15,800.00	7,799.00	7,451.10	7,148.31	208.77	43.42	-71.57	-2,217.14	-56.72	7,557.65	7,440.45	117.20	64.485		
15,900.00	7,799.00	7,450.62	7,147.85	211.43	43.42	-71.55	-2,217.00	-56.72	7,653.96	7,536.69	117.27	65.268		
16,000.00	7,799.00	7,450.15	7,147.40	214.08	43.42	-71.54	-2,216.85	-56.72	7,750.36	7,633.02	117.34	66.052		
16,100.00	7,799.00	7,449.67	7,146.94	216.74	43.41	-71.53	-2,216.71	-56.73	7,846.85	7,729.45	117.40	66.837		
16,200.00	7,799.00	7,449.19	7,146.49	219.40	43.41	-71.51	-2,216.57	-56.73	7,943.43	7,825.96	117.47	67.623		
16,300.00	7,799.00	7,448.71	7,146.03	222.06	43.41	-71.50	-2,216.42	-56.73	8,040.09	7,922.56	117.53	68.409		
16,400.00	7,799.00	7,448.23	7,145.57	224.72	43.40	-71.48	-2,216.28	-56.73	8,136.83	8,019.24	117.59	69.197		
16,500.00	7,799.00	7,447.75	7,145.12	227.38	43.40	-71.47	-2,216.14	-56.73	8,233.65	8,116.00	117.65	69.984		
16,600.00	7,799.00	7,447.27	7,144.66	230.04	43.40	-71.46	-2,215.99	-56.74	8,330.55	8,212.84	117.71	70.773		
16,700.00	7,799.00	7,446.80	7,144.20	232.70	43.39	-71.44	-2,215.85	-56.74	8,427.52	8,309.75	117.77	71.562		
16,800.00	7,799.00	7,446.32	7,143.75	235.36	43.39	-71.43	-2,215.71	-56.74	8,524.55	8,406.73	117.82	72.351		
16,900.00	7,799.00	7,445.84	7,143.29	238.03	43.39	-71.42	-2,215.56	-56.74	8,621.66	8,503.78	117.88	73.141		
17,000.00	7,799.00	7,445.36	7,142.83	240.69	43.39	-71.40	-2,215.42	-56.75	8,718.83	8,600.90	117.93	73.932		
17,100.00	7,799.00	7,444.88	7,142.38	243.36	43.38	-71.39	-2,215.27	-56.75	8,816.06	8,698.08	117.98	74.722		
17,200.00	7,799.00	7,444.40	7,141.92	246.02	43.38	-71.38	-2,215.13	-56.75	8,913.36	8,795.32	118.04	75.513		
17,300.00	7,799.00	7,443.93	7,141.46	248.69	43.38	-71.36	-2,214.99	-56.75	9,010.71	8,892.63	118.09	76.305		
17,400.00	7,799.00	7,443.45	7,141.01	251.35	43.37	-71.35	-2,214.84	-56.76	9,108.13	8,989.99	118.14	77.097		
17,500.00	7,799.00	7,442.97	7,140.55	254.02	43.37	-71.34	-2,214.70	-56.76	9,205.59	9,087.40	118.19	77.889		
17,600.00	7,799.00	7,442.49	7,140.09	256.69	43.37	-71.32	-2,214.56	-56.76	9,303.11	9,184.88	118.24	78.681		
17,700.00	7,799.00	7,442.01	7,139.64	259.35	43.36	-71.31	-2,214.41	-56.76	9,400.69	9,282.40	118.29	79.473		
17,800.00	7,799.00	7,441.53	7,139.18	262.02	43.36	-71.30	-2,214.27	-56.76	9,498.31	9,379.98	118.34	80.266		
17,900.00	7,799.00	7,441.05	7,138.73	264.69	43.36	-71.28	-2,214.13	-56.77	9,595.98	9,477.60	118.38	81.058		
18,000.00	7,799.00	7,440.58	7,138.27	267.36	43.36	-71.27	-2,213.98	-56.77	9,693.70	9,575.27	118.43	81.851		
18,100.00	7,799.00	7,440.10	7,137.81	270.03	43.35	-71.26	-2,213.84	-56.77	9,791.47	9,672.99	118.48	82.644		
18,200.00	7,799.00	7,439.62	7,137.36	272.70	43.35	-71.24	-2,213.70	-56.77	9,889.28	9,770.76	118.52	83.437		
18,300.00	7,799.00	7,439.14	7,136.90	275.37	43.35	-71.23	-2,213.55	-56.78	9,987.13	9,868.56	118.57	84.230		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 3BH - 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	3.22	-3.22	0.00	0.00	-156.20	-219.65	-96.87	240.06					
100.00	100.00	103.22	96.78	0.14	0.15	-156.20	-219.65	-96.87	240.06	239.78	0.28	845.344		
200.00	200.00	196.78	196.78	0.49	0.48	-156.20	-219.65	-96.87	240.06	239.08	0.98	245.503 CC, ES		
300.00	299.98	289.72	289.71	0.85	0.80	144.19	-221.06	-96.91	242.88	241.22	1.66	146.270		
400.00	399.84	381.96	381.84	1.21	1.13	144.37	-225.42	-97.06	251.52	249.17	2.35	106.995		
500.00	499.45	473.28	472.86	1.58	1.46	144.61	-232.67	-97.31	265.93	262.88	3.05	87.211		
600.00	598.75	563.29	562.31	1.97	1.80	144.97	-242.64	-97.65	285.75	282.00	3.75	76.153		
700.00	697.98	652.12	650.25	2.37	2.16	145.23	-255.23	-98.08	308.80	304.36	4.44	69.572		
800.00	797.22	739.72	736.54	2.77	2.54	145.26	-270.31	-98.59	334.59	329.47	5.12	65.318		
900.00	896.46	825.95	820.98	3.17	2.93	145.11	-287.72	-99.18	363.06	357.25	5.80	62.573		
1,000.00	995.69	910.69	903.42	3.58	3.35	144.83	-307.30	-99.85	394.15	387.67	6.48	60.862		
1,100.00	1,094.93	993.82	983.70	3.98	3.78	144.45	-328.87	-100.59	427.80	420.66	7.14	59.893		
1,200.00	1,194.16	1,075.27	1,061.72	4.39	4.24	144.01	-352.25	-101.38	463.97	456.17	7.80	59.509		
1,300.00	1,293.40	1,154.95	1,137.36	4.80	4.72	143.54	-377.25	-102.23	502.58	494.13	8.45	59.470		
1,400.00	1,392.64	1,232.80	1,210.57	5.21	5.21	143.04	-403.71	-103.13	543.57	534.48	9.09	59.799		
1,500.00	1,491.87	1,308.77	1,281.30	5.62	5.71	142.53	-431.43	-104.08	586.88	577.16	9.72	60.404		
1,600.00	1,591.11	1,389.92	1,356.12	6.03	6.27	141.99	-462.83	-105.15	632.20	621.81	10.39	60.837		
1,700.00	1,690.34	1,478.72	1,437.87	6.44	6.90	141.46	-497.46	-106.33	677.88	666.74	11.14	60.854		
1,800.00	1,789.58	1,567.51	1,519.62	6.85	7.54	141.00	-532.10	-107.51	723.60	711.71	11.89	60.852		
1,900.00	1,888.82	1,656.30	1,601.37	7.26	8.19	140.59	-566.74	-108.69	769.36	756.71	12.65	60.838		
2,000.00	1,988.05	1,745.10	1,683.12	7.67	8.84	140.23	-601.37	-109.86	815.14	801.74	13.40	60.817		
2,100.00	2,087.29	1,833.89	1,764.87	8.08	9.49	139.90	-636.01	-111.04	860.94	846.78	14.16	60.792		
2,200.00	2,186.52	1,922.68	1,846.63	8.49	10.14	139.61	-670.65	-112.22	906.77	891.84	14.92	60.763		
2,300.00	2,285.76	2,011.48	1,928.38	8.90	10.80	139.35	-705.28	-113.40	952.61	936.92	15.69	60.733		
2,400.00	2,385.00	2,100.27	2,010.13	9.31	11.46	139.11	-739.92	-114.58	998.46	982.01	16.45	60.701		
2,500.00	2,484.23	2,189.06	2,091.88	9.72	12.12	138.89	-774.55	-115.76	1,044.33	1,027.11	17.21	60.669		
2,600.00	2,583.47	2,277.86	2,173.63	10.13	12.78	138.69	-809.19	-116.94	1,090.21	1,072.23	17.98	60.638		
2,700.00	2,682.70	2,366.65	2,255.38	10.54	13.44	138.51	-843.83	-118.12	1,136.09	1,117.35	18.75	60.606		
2,800.00	2,781.94	2,455.45	2,337.13	10.95	14.11	138.34	-878.46	-119.30	1,181.99	1,162.48	19.51	60.576		
2,900.00	2,881.18	2,544.24	2,418.88	11.36	14.77	138.19	-913.10	-120.48	1,227.89	1,207.61	20.28	60.545		
3,000.00	2,980.41	2,633.03	2,500.63	11.77	15.44	138.04	-947.73	-121.66	1,273.80	1,252.75	21.05	60.516		
3,100.00	3,079.65	2,721.83	2,582.39	12.19	16.10	137.91	-982.37	-122.84	1,319.72	1,297.90	21.82	60.487		
3,200.00	3,178.88	2,810.62	2,664.14	12.60	16.77	137.78	-1,017.01	-124.02	1,365.64	1,343.05	22.59	60.459		
3,300.00	3,278.12	2,900.59	2,745.89	13.01	17.44	137.66	-1,051.64	-125.20	1,411.57	1,388.21	23.36	60.418		
3,400.00	3,377.36	2,988.21	2,827.64	13.42	18.10	137.55	-1,086.28	-126.38	1,457.50	1,433.37	24.13	60.406		
3,500.00	3,476.59	3,077.00	2,909.39	13.83	18.77	137.45	-1,120.91	-127.55	1,503.43	1,478.54	24.90	60.380		
3,600.00	3,575.83	3,165.79	2,991.14	14.24	19.44	137.35	-1,155.55	-128.73	1,549.37	1,523.70	25.67	60.355		
3,700.00	3,675.06	3,254.59	3,072.89	14.65	20.11	137.26	-1,190.19	-129.91	1,595.32	1,568.87	26.44	60.331		
3,800.00	3,774.30	3,343.38	3,154.64	15.06	20.77	137.17	-1,224.82	-131.09	1,641.26	1,614.05	27.22	60.307		
3,900.00	3,873.53	3,432.17	3,236.39	15.47	21.44	137.09	-1,259.46	-132.27	1,687.21	1,659.22	27.99	60.284		
4,000.00	3,972.77	3,520.97	3,318.15	15.89	22.11	137.01	-1,294.10	-133.45	1,733.16	1,704.40	28.76	60.262		
4,100.00	4,072.01	3,609.76	3,399.90	16.30	22.78	136.94	-1,328.73	-134.63	1,779.11	1,749.58	29.53	60.240		
4,200.00	4,171.24	3,701.44	3,481.65	16.71	23.47	136.87	-1,363.37	-135.81	1,825.07	1,794.75	30.32	60.191		
4,300.00	4,270.48	3,787.35	3,563.40	17.12	24.12	136.80	-1,398.00	-136.99	1,871.02	1,839.94	31.08	60.198		
4,400.00	4,369.71	3,876.14	3,645.15	17.53	24.79	136.74	-1,432.64	-138.17	1,916.98	1,885.13	31.86	60.177		
4,500.00	4,468.95	3,964.94	3,726.90	17.94	25.46	136.68	-1,467.28	-139.35	1,962.94	1,930.31	32.63	60.158		
4,600.00	4,568.19	4,053.73	3,808.65	18.35	26.13	136.62	-1,501.91	-140.53	2,008.91	1,975.50	33.40	60.138		
4,700.00	4,667.42	4,142.52	3,890.40	18.76	26.80	136.57	-1,536.55	-141.71	2,054.87	2,020.69	34.18	60.119		
4,800.00	4,766.66	4,231.32	3,972.16	19.18	27.47	136.51	-1,571.18	-142.89	2,100.84	2,065.88	34.96	60.100		
4,900.00	4,865.89	4,320.11	4,053.91	19.59	28.14	136.46	-1,605.82	-144.07	2,146.80	2,111.07	35.73	60.082		
5,000.00	4,965.13	4,408.90	4,135.66	20.00	28.81	136.41	-1,640.46	-145.25	2,192.77	2,156.26	36.51	60.064		
5,100.00	5,064.37	4,502.30	4,217.41	20.41	29.51	136.37	-1,675.09	-146.42	2,238.74	2,201.44	37.31	60.011		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 3BH - 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	5,163.60	4,586.49	4,299.16	20.82	30.15	136.32	-1,709.73	-147.60	2,284.71	2,246.65	38.06	60.029		
5,300.00	5,262.84	4,675.28	4,380.91	21.23	30.82	136.28	-1,744.36	-148.78	2,330.68	2,291.85	38.84	60.012		
5,400.00	5,362.07	4,764.08	4,462.66	21.64	31.49	136.24	-1,779.00	-149.96	2,376.65	2,337.04	39.61	59.995		
5,500.00	5,461.31	4,852.87	4,544.41	22.05	32.16	136.20	-1,813.64	-151.14	2,422.63	2,382.24	40.39	59.979		
5,600.00	5,560.55	4,941.67	4,626.16	22.47	32.83	136.16	-1,848.27	-152.32	2,468.60	2,427.43	41.17	59.962		
5,700.00	5,659.78	5,030.46	4,707.92	22.88	33.50	136.13	-1,882.91	-153.50	2,514.58	2,472.63	41.95	59.946		
5,800.00	5,759.02	5,119.25	4,789.67	23.29	34.17	136.09	-1,917.54	-154.68	2,560.55	2,517.83	42.73	59.930		
5,900.00	5,858.25	5,208.05	4,871.42	23.70	34.84	136.06	-1,952.18	-155.86	2,606.53	2,563.03	43.50	59.914		
6,000.00	5,957.49	5,303.16	4,953.17	24.11	35.56	136.02	-1,986.82	-157.04	2,652.51	2,608.19	44.31	59.898		
6,100.00	6,056.73	5,385.63	5,034.92	24.52	36.19	135.99	-2,021.45	-158.22	2,698.48	2,653.42	45.06	59.883		
6,200.00	6,155.96	5,474.43	5,116.67	24.93	36.86	135.96	-2,056.09	-159.40	2,744.46	2,698.62	45.84	59.868		
6,300.00	6,255.20	5,563.22	5,198.42	25.34	37.53	135.93	-2,090.73	-160.58	2,790.44	2,743.82	46.62	59.853		
6,400.00	6,354.43	5,652.01	5,280.17	25.76	38.20	135.90	-2,125.36	-161.76	2,836.42	2,789.02	47.40	59.838		
6,500.00	6,453.67	5,740.81	5,361.92	26.17	38.87	135.87	-2,160.00	-162.94	2,882.40	2,834.22	48.18	59.823		
6,600.00	6,552.91	5,829.60	5,443.68	26.58	39.54	135.85	-2,194.63	-164.11	2,928.38	2,879.42	48.96	59.808		
6,700.00	6,652.14	5,918.40	5,525.43	26.99	40.21	135.82	-2,229.27	-165.29	2,974.36	2,924.62	49.74	59.794		
6,800.00	6,751.38	6,007.19	5,607.18	27.40	40.89	135.80	-2,263.91	-166.47	3,020.35	2,969.82	50.52	59.779		
6,900.00	6,850.61	6,104.02	5,688.93	27.81	41.62	135.77	-2,298.54	-167.65	3,066.33	3,014.98	51.34	59.720		
7,000.00	6,949.85	6,184.78	5,770.68	28.22	42.23	135.75	-2,333.18	-168.83	3,112.31	3,060.22	52.09	59.751		
7,100.00	7,049.09	6,273.57	5,852.43	28.64	42.90	135.72	-2,367.81	-170.01	3,158.29	3,105.42	52.87	59.736		
7,200.00	7,148.32	6,362.36	5,934.18	29.05	43.57	135.70	-2,402.45	-171.19	3,204.28	3,150.62	53.65	59.722		
7,300.00	7,247.89	6,451.48	6,016.23	29.42	44.25	-133.45	-2,437.21	-172.37	3,248.93	3,194.54	54.39	59.733		
7,400.00	7,346.79	6,540.07	6,097.80	29.67	44.92	-86.03	-2,471.77	-173.55	3,288.97	3,233.97	55.00	59.799		
7,500.00	7,442.07	6,625.49	6,176.44	29.83	45.56	-75.81	-2,505.09	-174.69	3,323.45	3,267.96	55.50	59.887		
7,600.00	7,530.81	6,705.14	6,249.77	29.92	46.16	-71.07	-2,536.16	-175.74	3,351.85	3,295.96	55.89	59.975		
7,700.00	7,610.33	6,776.60	6,315.56	29.97	46.70	-68.44	-2,564.03	-176.69	3,373.96	3,317.76	56.20	60.031		
7,800.00	7,678.21	6,837.69	6,371.81	30.00	47.17	-67.00	-2,587.86	-177.50	3,389.81	3,333.33	56.49	60.011		
7,900.00	7,732.39	6,886.56	6,416.80	30.08	47.54	-66.35	-2,606.92	-178.15	3,399.62	3,342.83	56.79	59.861		
8,000.00	7,771.23	6,921.72	6,449.18	30.28	47.80	-66.24	-2,620.64	-178.62	3,403.70	3,346.53	57.17	59.535		
8,100.00	7,793.53	6,942.12	6,467.96	30.66	47.96	-66.54	-2,628.60	-178.89	3,402.37	3,344.72	57.66	59.012		
8,200.00	7,799.00	6,947.45	6,472.87	31.25	48.00	-67.01	-2,630.68	-178.96	3,396.11	3,337.87	58.25	58.307		
8,300.00	7,799.00	6,947.89	6,473.27	32.08	48.00	-67.02	-2,630.85	-178.97	3,390.30	3,331.28	59.02	57.443		
8,400.00	7,799.00	6,948.33	6,473.67	33.13	48.00	-67.02	-2,631.02	-178.97	3,387.43	3,327.43	60.01	56.449		
8,447.15	7,799.00	6,948.53	6,473.86	33.71	48.00	-67.03	-2,631.10	-178.98	3,387.11	3,326.54	60.56	55.928		
8,500.00	7,799.00	6,948.76	6,474.08	34.37	48.01	-67.03	-2,631.19	-178.98	3,387.52	3,326.33	61.19	55.362		
8,600.00	7,799.00	6,949.20	6,474.48	35.78	48.01	-67.04	-2,631.36	-178.99	3,390.55	3,328.01	62.54	54.215		
8,700.00	7,799.00	6,949.64	6,474.88	37.33	48.01	-67.05	-2,631.53	-178.99	3,396.53	3,332.49	64.04	53.039		
8,800.00	7,799.00	6,950.08	6,475.28	39.00	48.02	-67.05	-2,631.70	-179.00	3,405.43	3,339.77	65.66	51.863		
8,900.00	7,799.00	6,950.52	6,475.69	40.79	48.02	-67.06	-2,631.87	-179.00	3,417.24	3,349.85	67.39	50.707		
9,000.00	7,799.00	6,950.95	6,476.09	42.67	48.02	-67.07	-2,632.04	-179.01	3,431.93	3,362.72	69.20	49.591		
9,100.00	7,799.00	6,951.39	6,476.49	44.63	48.03	-67.08	-2,632.21	-179.01	3,449.45	3,378.36	71.08	48.527		
9,200.00	7,799.00	6,951.83	6,476.90	46.66	48.03	-67.08	-2,632.39	-179.02	3,469.76	3,396.75	73.01	47.524		
9,300.00	7,799.00	6,952.27	6,477.30	48.76	48.03	-67.09	-2,632.56	-179.03	3,492.82	3,417.85	74.97	46.590		
9,400.00	7,799.00	6,952.71	6,477.70	50.92	48.04	-67.10	-2,632.73	-179.03	3,518.58	3,441.63	76.95	45.727		
9,500.00	7,799.00	6,953.14	6,478.11	53.12	48.04	-67.11	-2,632.90	-179.04	3,546.96	3,468.03	78.93	44.937		
9,600.00	7,799.00	6,953.58	6,478.51	55.37	48.04	-67.11	-2,633.07	-179.04	3,577.92	3,497.01	80.91	44.220		
9,700.00	7,799.00	6,954.02	6,478.91	57.65	48.05	-67.12	-2,633.24	-179.05	3,611.38	3,528.51	82.88	43.576		
9,800.00	7,799.00	6,954.46	6,479.32	59.97	48.05	-67.13	-2,633.41	-179.05	3,647.28	3,562.46	84.82	43.001		
9,900.00	7,799.00	6,954.89	6,479.72	62.32	48.05	-67.14	-2,633.58	-179.06	3,685.54	3,598.81	86.73	42.495		
10,000.00	7,799.00	6,955.33	6,480.12	64.69	48.06	-67.14	-2,633.75	-179.07	3,726.09	3,637.49	88.60	42.054		
10,100.00	7,799.00	6,955.77	6,480.53	67.09	48.06	-67.15	-2,633.92	-179.07	3,768.86	3,678.43	90.43	41.675		
10,200.00	7,799.00	6,956.21	6,480.93	69.51	48.06	-67.16	-2,634.09	-179.08	3,813.78	3,721.56	92.22	41.355		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 3BH - 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	7,799.00	6,956.65	6,481.33	71.95	48.07	-67.17	-2,634.26	-179.08	3,860.76	3,766.80	93.96	41.090		
10,400.00	7,799.00	6,957.08	6,481.74	74.41	48.07	-67.17	-2,634.44	-179.09	3,909.73	3,814.09	95.65	40.877		
10,500.00	7,799.00	6,957.52	6,482.14	76.89	48.07	-67.18	-2,634.61	-179.10	3,960.63	3,863.35	97.28	40.714		
10,600.00	7,799.00	6,957.96	6,482.54	79.37	48.08	-67.19	-2,634.78	-179.10	4,013.37	3,914.51	98.86	40.598		
10,700.00	7,799.00	6,958.40	6,482.94	81.87	48.08	-67.19	-2,634.95	-179.11	4,067.89	3,967.51	100.38	40.525		
10,800.00	7,799.00	6,958.84	6,483.35	84.39	48.08	-67.20	-2,635.12	-179.11	4,124.11	4,022.26	101.85	40.493 SF		
10,900.00	7,799.00	6,959.27	6,483.75	86.91	48.09	-67.21	-2,635.29	-179.12	4,181.96	4,078.70	103.26	40.499		
11,000.00	7,799.00	6,959.71	6,484.15	89.44	48.09	-67.22	-2,635.46	-179.12	4,241.39	4,136.77	104.62	40.541		
11,100.00	7,799.00	6,960.15	6,484.56	91.99	48.09	-67.22	-2,635.63	-179.13	4,302.32	4,196.40	105.92	40.617		
11,200.00	7,799.00	6,960.59	6,484.96	94.54	48.10	-67.23	-2,635.80	-179.14	4,364.69	4,257.51	107.17	40.725		
11,300.00	7,799.00	6,961.03	6,485.36	97.10	48.10	-67.24	-2,635.97	-179.14	4,428.44	4,320.06	108.38	40.862		
11,400.00	7,799.00	6,961.46	6,485.77	99.66	48.10	-67.25	-2,636.14	-179.15	4,493.51	4,383.98	109.53	41.027		
11,500.00	7,799.00	6,961.90	6,486.17	102.24	48.11	-67.25	-2,636.31	-179.15	4,559.84	4,449.22	110.63	41.218		
11,600.00	7,799.00	6,962.34	6,486.57	104.82	48.11	-67.26	-2,636.49	-179.16	4,627.39	4,515.71	111.68	41.434		
11,700.00	7,799.00	6,962.78	6,486.98	107.40	48.11	-67.27	-2,636.66	-179.17	4,696.09	4,583.40	112.69	41.672		
11,800.00	7,799.00	6,963.21	6,487.38	109.99	48.12	-67.28	-2,636.83	-179.17	4,765.90	4,652.25	113.66	41.932		
11,900.00	7,799.00	6,963.68	6,487.81	112.58	48.12	-67.47	-2,637.01	-179.18	4,836.73	4,722.15	114.58	42.212		
12,000.00	7,799.00	6,965.46	6,489.45	115.17	48.13	-68.59	-2,637.70	-179.20	4,906.37	4,790.87	115.50	42.478		
12,100.00	7,799.00	6,969.28	6,492.97	117.74	48.16	-69.62	-2,639.19	-179.25	4,973.54	4,857.10	116.44	42.714		
12,200.00	7,799.00	6,975.13	6,498.35	120.27	48.21	-70.57	-2,641.48	-179.33	5,038.15	4,920.76	117.39	42.919		
12,300.00	7,799.00	6,982.99	6,505.59	122.76	48.27	-71.45	-2,644.54	-179.43	5,100.12	4,981.78	118.34	43.098		
12,400.00	7,799.00	7,007.16	6,514.66	125.19	48.45	-72.28	-2,648.38	-179.56	5,159.36	5,039.98	119.38	43.218		
12,500.00	7,799.00	7,004.65	6,525.53	127.57	48.43	-73.04	-2,652.99	-179.72	5,215.80	5,095.58	120.23	43.383		
12,600.00	7,799.00	7,018.23	6,538.03	129.88	48.53	-73.54	-2,658.29	-179.90	5,269.75	5,148.59	121.15	43.497		
12,700.00	7,799.00	7,032.13	6,550.83	132.19	48.64	-73.72	-2,663.71	-180.09	5,324.29	5,202.23	122.05	43.623		
12,800.00	7,799.00	7,046.02	6,563.62	134.50	48.74	-73.89	-2,669.13	-180.27	5,380.10	5,257.17	122.92	43.768		
12,900.00	7,799.00	7,059.92	6,576.42	136.83	48.85	-74.07	-2,674.55	-180.46	5,437.14	5,313.37	123.76	43.931		
13,000.00	7,799.00	7,073.82	6,589.21	139.16	48.95	-74.25	-2,679.97	-180.64	5,495.37	5,370.79	124.58	44.112		
13,100.00	7,799.00	7,087.71	6,602.00	141.50	49.06	-74.42	-2,685.39	-180.82	5,554.76	5,429.40	125.36	44.310		
13,200.00	7,799.00	7,101.61	6,614.80	143.84	49.16	-74.60	-2,690.81	-181.01	5,615.27	5,489.15	126.12	44.523		
13,300.00	7,799.00	7,115.51	6,627.59	146.19	49.27	-74.78	-2,696.23	-181.19	5,676.86	5,550.00	126.86	44.751		
13,400.00	7,799.00	7,129.40	6,640.39	148.55	49.37	-74.95	-2,701.65	-181.38	5,739.50	5,611.93	127.56	44.993		
13,500.00	7,799.00	7,143.30	6,653.18	150.92	49.48	-75.13	-2,707.07	-181.56	5,803.15	5,674.90	128.25	45.249		
13,600.00	7,799.00	7,157.20	6,665.98	153.29	49.58	-75.30	-2,712.49	-181.75	5,867.78	5,738.87	128.91	45.518		
13,700.00	7,799.00	7,171.09	6,678.77	155.66	49.69	-75.48	-2,717.92	-181.93	5,933.36	5,803.81	129.55	45.799		
13,800.00	7,799.00	7,184.99	6,691.57	158.04	49.79	-75.66	-2,723.34	-182.12	5,999.86	5,869.69	130.17	46.092		
13,900.00	7,799.00	7,198.89	6,704.36	160.43	49.90	-75.83	-2,728.76	-182.30	6,067.25	5,936.48	130.77	46.396		
14,000.00	7,799.00	7,212.79	6,717.16	162.82	50.00	-76.01	-2,734.18	-182.49	6,135.49	6,004.14	131.35	46.711		
14,100.00	7,799.00	7,226.68	6,729.95	165.21	50.11	-76.18	-2,739.60	-182.67	6,204.57	6,072.66	131.91	47.036		
14,200.00	7,799.00	7,240.58	6,742.75	167.61	50.21	-76.36	-2,745.02	-182.86	6,274.45	6,141.99	132.45	47.370		
14,300.00	7,799.00	7,254.48	6,755.54	170.02	50.32	-76.53	-2,750.44	-183.04	6,345.10	6,212.12	132.98	47.714		
14,400.00	7,799.00	7,268.37	6,768.33	172.42	50.42	-76.71	-2,755.86	-183.22	6,416.50	6,283.01	133.49	48.067		
14,500.00	7,799.00	7,282.27	6,781.13	174.84	50.53	-76.88	-2,761.28	-183.41	6,488.63	6,354.65	133.99	48.428		
14,600.00	7,799.00	7,304.57	6,793.25	177.28	50.70	-76.38	-2,766.42	-183.58	6,562.77	6,428.24	134.52	48.785		
14,700.00	7,799.00	7,306.68	6,803.60	179.78	50.71	-75.62	-2,770.80	-183.73	6,640.79	6,505.89	134.90	49.228		
14,800.00	7,799.00	7,315.94	6,812.13	182.34	50.78	-74.67	-2,774.42	-183.86	6,722.39	6,587.10	135.29	49.687		
14,900.00	7,799.00	7,323.22	6,818.83	184.94	50.84	-73.47	-2,777.25	-183.95	6,807.24	6,671.59	135.65	50.183		
15,000.00	7,799.00	7,328.47	6,823.67	187.56	50.88	-71.92	-2,779.30	-184.02	6,894.98	6,759.03	135.95	50.717		
15,100.00	7,799.00	7,331.70	6,826.64	190.21	50.90	-69.92	-2,780.56	-184.07	6,985.29	6,849.09	136.20	51.286		
15,200.00	7,799.00	7,333.21	6,828.03	192.85	50.91	-68.89	-2,781.15	-184.09	7,077.52	6,941.11	136.41	51.885		
15,300.00	7,799.00	7,334.54	6,829.25	195.50	50.92	-68.92	-2,781.67	-184.10	7,170.13	7,033.53	136.60	52.490		
15,400.00	7,799.00	7,335.86	6,830.47	198.16	50.93	-68.95	-2,782.19	-184.12	7,262.94	7,126.15	136.79	53.097		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 3BH - 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		
15,500.00	7,799.00	7,337.19	6,831.69	200.81	50.94	-68.97	-2,782.70	-184.14	7,355.94	7,218.97	136.97	53.705		
15,600.00	7,799.00	7,338.51	6,832.91	203.46	50.95	-69.00	-2,783.22	-184.16	7,449.12	7,311.98	137.14	54.316		
15,700.00	7,799.00	7,339.84	6,834.13	206.11	50.96	-69.03	-2,783.74	-184.17	7,542.47	7,405.16	137.31	54.929		
15,800.00	7,799.00	7,341.16	6,835.35	208.77	50.97	-69.06	-2,784.25	-184.19	7,635.99	7,498.52	137.48	55.543		
15,900.00	7,799.00	7,342.49	6,836.57	211.43	50.98	-69.09	-2,784.77	-184.21	7,729.68	7,592.04	137.64	56.159		
16,000.00	7,799.00	7,343.81	6,837.79	214.08	50.99	-69.12	-2,785.29	-184.23	7,823.52	7,685.72	137.79	56.777		
16,100.00	7,799.00	7,345.14	6,839.01	216.74	51.00	-69.14	-2,785.81	-184.24	7,917.51	7,779.56	137.94	57.396		
16,200.00	7,799.00	7,346.46	6,840.23	219.40	51.01	-69.17	-2,786.32	-184.26	8,011.64	7,873.55	138.09	58.017		
16,300.00	7,799.00	7,347.79	6,841.45	222.06	51.02	-69.20	-2,786.84	-184.28	8,105.92	7,967.68	138.23	58.639		
16,400.00	7,799.00	7,349.11	6,842.67	224.72	51.03	-69.23	-2,787.36	-184.30	8,200.33	8,061.96	138.37	59.262		
16,500.00	7,799.00	7,350.44	6,843.89	227.38	51.04	-69.26	-2,787.87	-184.31	8,294.87	8,156.36	138.51	59.887		
16,600.00	7,799.00	7,351.76	6,845.11	230.04	51.05	-69.28	-2,788.39	-184.33	8,389.54	8,250.90	138.64	60.512		
16,700.00	7,799.00	7,353.09	6,846.33	232.70	51.06	-69.31	-2,788.91	-184.35	8,484.33	8,345.56	138.77	61.139		
16,800.00	7,799.00	7,354.41	6,847.55	235.36	51.07	-69.34	-2,789.42	-184.37	8,579.24	8,440.34	138.90	61.767		
16,900.00	7,799.00	7,355.74	6,848.77	238.03	51.08	-69.37	-2,789.94	-184.38	8,674.26	8,535.24	139.02	62.396		
17,000.00	7,799.00	7,357.06	6,849.99	240.69	51.09	-69.40	-2,790.46	-184.40	8,769.39	8,630.25	139.14	63.025		
17,100.00	7,799.00	7,358.39	6,851.21	243.36	51.11	-69.43	-2,790.97	-184.42	8,864.63	8,725.38	139.26	63.656		
17,200.00	7,799.00	7,359.71	6,852.43	246.02	51.12	-69.45	-2,791.49	-184.44	8,959.98	8,820.60	139.37	64.287		
17,300.00	7,799.00	7,361.04	6,853.65	248.69	51.13	-69.48	-2,792.01	-184.46	9,055.42	8,915.93	139.49	64.919		
17,400.00	7,799.00	7,362.36	6,854.87	251.35	51.14	-69.51	-2,792.52	-184.47	9,150.96	9,011.36	139.60	65.552		
17,500.00	7,799.00	7,363.69	6,856.09	254.02	51.15	-69.54	-2,793.04	-184.49	9,246.60	9,106.89	139.71	66.186		
17,600.00	7,799.00	7,365.01	6,857.31	256.69	51.16	-69.57	-2,793.56	-184.51	9,342.32	9,202.51	139.81	66.820		
17,700.00	7,799.00	7,366.34	6,858.53	259.35	51.17	-69.59	-2,794.08	-184.53	9,438.14	9,298.22	139.92	67.454		
17,800.00	7,799.00	7,367.66	6,859.75	262.02	51.18	-69.62	-2,794.59	-184.54	9,534.04	9,394.02	140.02	68.090		
17,900.00	7,799.00	7,368.99	6,860.97	264.69	51.19	-69.65	-2,795.11	-184.56	9,630.02	9,489.90	140.12	68.725		
18,000.00	7,799.00	7,370.31	6,862.19	267.36	51.20	-69.68	-2,795.63	-184.58	9,726.09	9,585.86	140.22	69.361		
18,100.00	7,799.00	7,371.64	6,863.41	270.03	51.21	-69.71	-2,796.14	-184.60	9,822.23	9,681.91	140.32	69.998		
18,200.00	7,799.00	7,372.96	6,864.63	272.70	51.22	-69.74	-2,796.66	-184.61	9,918.45	9,778.03	140.42	70.635		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 4AH - 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	3.16	-3.16	0.00	0.00	-156.23	-237.86	-104.75	259.91					
100.00	100.00	96.84	96.84	0.14	0.13	-156.23	-237.86	-104.75	259.91	259.64	0.27	969.321	CC, ES	
200.00	200.00	189.30	189.28	0.49	0.45	-156.35	-239.26	-104.79	261.31	260.36	0.95	275.720		
300.00	299.98	281.25	281.13	0.85	0.78	143.77	-243.59	-104.93	267.10	265.46	1.64	162.994		
400.00	399.84	372.51	372.10	1.21	1.12	143.66	-250.81	-105.15	278.65	276.31	2.34	119.036		
500.00	499.45	462.62	461.65	1.58	1.47	143.65	-260.77	-105.45	295.90	292.86	3.05	97.124		
600.00	598.75	551.23	549.37	1.97	1.84	143.79	-273.31	-105.84	318.46	314.71	3.75	84.835		
700.00	697.98	638.53	635.36	2.37	2.23	143.91	-288.31	-106.29	344.19	339.74	4.44	77.492		
800.00	797.22	724.47	719.53	2.77	2.63	143.85	-305.62	-106.82	372.60	367.48	5.13	72.687		
900.00	896.46	808.93	801.71	3.17	3.05	143.66	-325.09	-107.42	403.65	397.84	5.81	69.529		
1,000.00	995.69	891.81	881.76	3.58	3.50	143.36	-346.54	-108.07	437.26	430.78	6.48	67.488		
1,100.00	1,094.93	973.01	959.56	3.98	3.96	143.00	-369.80	-108.79	473.38	466.24	7.14	66.278		
1,200.00	1,194.16	1,052.46	1,035.01	4.39	4.44	142.59	-394.67	-109.55	511.95	504.15	7.80	65.629		
1,300.00	1,293.40	1,130.10	1,108.05	4.80	4.94	142.16	-420.99	-110.35	552.89	544.44	8.45	65.447		
1,400.00	1,392.64	1,205.89	1,178.62	5.21	5.45	141.71	-448.58	-111.19	596.15	587.06	9.08	65.638		
1,500.00	1,491.87	1,279.77	1,246.70	5.62	5.98	141.25	-477.26	-112.07	641.64	631.93	9.71	66.111		
1,600.00	1,591.11	1,351.73	1,312.28	6.03	6.52	140.80	-506.88	-112.98	689.30	678.98	10.32	66.821		
1,700.00	1,690.34	1,421.76	1,375.36	6.44	7.06	140.36	-537.27	-113.91	739.04	728.13	10.91	67.735		
1,800.00	1,789.58	1,489.85	1,435.96	6.85	7.61	139.93	-568.29	-114.85	790.80	779.31	11.49	68.813		
1,900.00	1,888.82	1,570.40	1,507.05	7.26	8.28	139.44	-606.17	-116.01	843.94	831.74	12.20	69.196		
2,000.00	1,988.05	1,654.86	1,581.55	7.67	9.00	138.99	-645.93	-117.23	897.17	884.22	12.94	69.320		
2,100.00	2,087.29	1,739.32	1,656.06	8.08	9.72	138.59	-685.68	-118.44	950.43	936.74	13.69	69.418		
2,200.00	2,186.52	1,823.77	1,730.56	8.49	10.44	138.23	-725.44	-119.66	1,003.72	989.28	14.44	69.495		
2,300.00	2,285.76	1,908.23	1,805.07	8.90	11.16	137.90	-765.19	-120.87	1,057.04	1,041.84	15.20	69.557		
2,400.00	2,385.00	2,007.31	1,879.58	9.31	12.02	137.61	-804.95	-122.09	1,110.38	1,094.35	16.03	69.280		
2,500.00	2,484.23	2,077.15	1,954.08	9.72	12.62	137.35	-844.70	-123.31	1,163.73	1,147.02	16.71	69.644		
2,600.00	2,583.47	2,161.60	2,028.59	10.13	13.35	137.10	-884.46	-124.52	1,217.11	1,199.64	17.47	69.675		
2,700.00	2,682.70	2,246.06	2,103.09	10.54	14.08	136.88	-924.21	-125.74	1,270.50	1,252.27	18.23	69.699		
2,800.00	2,781.94	2,330.52	2,177.60	10.95	14.82	136.68	-963.97	-126.95	1,323.90	1,304.91	18.99	69.718		
2,900.00	2,881.18	2,414.98	2,252.11	11.36	15.55	136.49	-1,003.72	-128.17	1,377.31	1,357.56	19.75	69.732		
3,000.00	2,980.41	2,500.57	2,326.61	11.77	16.30	136.32	-1,043.47	-129.38	1,430.73	1,410.21	20.52	69.723		
3,100.00	3,079.65	2,583.89	2,401.12	12.19	17.03	136.15	-1,083.23	-130.60	1,484.16	1,462.88	21.28	69.750		
3,200.00	3,178.88	2,668.35	2,475.62	12.60	17.76	136.00	-1,122.98	-131.81	1,537.60	1,515.56	22.04	69.755		
3,300.00	3,278.12	2,752.81	2,550.13	13.01	18.50	135.86	-1,162.74	-133.03	1,591.04	1,568.24	22.81	69.758		
3,400.00	3,377.36	2,837.26	2,624.64	13.42	19.24	135.73	-1,202.49	-134.24	1,644.50	1,620.92	23.57	69.759		
3,500.00	3,476.59	2,921.72	2,699.14	13.83	19.98	135.61	-1,242.25	-135.46	1,697.95	1,673.61	24.34	69.758		
3,600.00	3,575.83	3,006.18	2,773.65	14.24	20.72	135.49	-1,282.00	-136.68	1,751.42	1,726.31	25.11	69.756		
3,700.00	3,675.06	3,109.37	2,848.15	14.65	21.62	135.38	-1,321.76	-137.89	1,804.89	1,778.91	25.97	69.494		
3,800.00	3,774.30	3,175.09	2,922.66	15.06	22.20	135.28	-1,361.51	-139.11	1,858.36	1,831.71	26.64	69.748		
3,900.00	3,873.53	3,259.55	2,997.17	15.47	22.94	135.18	-1,401.27	-140.32	1,911.83	1,884.42	27.41	69.743		
4,000.00	3,972.77	3,344.01	3,071.67	15.89	23.68	135.09	-1,441.02	-141.54	1,965.31	1,937.13	28.18	69.737		
4,100.00	4,072.01	3,428.46	3,146.18	16.30	24.42	135.01	-1,480.78	-142.75	2,018.80	1,989.85	28.95	69.730		
4,200.00	4,171.24	3,512.92	3,220.68	16.71	25.16	134.92	-1,520.53	-143.97	2,072.28	2,042.56	29.72	69.723		
4,300.00	4,270.48	3,602.62	3,295.19	17.12	25.94	134.85	-1,560.28	-145.18	2,125.77	2,095.25	30.52	69.653		
4,400.00	4,369.71	3,681.84	3,369.70	17.53	26.64	134.77	-1,600.04	-146.40	2,179.27	2,148.00	31.26	69.706		
4,500.00	4,468.95	3,766.29	3,444.20	17.94	27.38	134.70	-1,639.79	-147.61	2,232.76	2,200.72	32.04	69.697		
4,600.00	4,568.19	3,850.75	3,518.71	18.35	28.12	134.63	-1,679.55	-148.83	2,286.26	2,253.45	32.81	69.687		
4,700.00	4,667.42	3,935.21	3,593.21	18.76	28.87	134.57	-1,719.30	-150.05	2,339.76	2,306.18	33.58	69.678		
4,800.00	4,766.66	4,019.67	3,667.72	19.18	29.61	134.51	-1,759.06	-151.26	2,393.26	2,358.90	34.35	69.667		
4,900.00	4,865.89	4,104.12	3,742.22	19.59	30.35	134.45	-1,798.81	-152.48	2,446.76	2,411.63	35.13	69.657		
5,000.00	4,965.13	4,188.58	3,816.73	20.00	31.09	134.39	-1,838.57	-153.69	2,500.26	2,464.37	35.90	69.646		
5,100.00	5,064.37	4,273.04	3,891.24	20.41	31.83	134.34	-1,878.32	-154.91	2,553.77	2,517.10	36.67	69.635		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 4AH - 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	5,163.60	4,357.50	3,965.74	20.82	32.58	134.29	-1,918.08	-156.12	2,607.28	2,569.83	37.45	69.624		
5,300.00	5,262.84	4,441.95	4,040.25	21.23	33.32	134.24	-1,957.83	-157.34	2,660.79	2,622.57	38.22	69.612		
5,400.00	5,362.07	4,526.41	4,114.75	21.64	34.06	134.19	-1,997.58	-158.55	2,714.30	2,675.30	39.00	69.600		
5,500.00	5,461.31	4,610.87	4,189.26	22.05	34.80	134.14	-2,037.34	-159.77	2,767.81	2,728.04	39.77	69.588		
5,600.00	5,560.55	4,704.68	4,263.77	22.47	35.63	134.10	-2,077.09	-160.98	2,821.32	2,780.73	40.60	69.494		
5,700.00	5,659.78	4,779.78	4,338.27	22.88	36.29	134.06	-2,116.85	-162.20	2,874.84	2,833.51	41.33	69.564		
5,800.00	5,759.02	4,864.24	4,412.78	23.29	37.03	134.02	-2,156.60	-163.42	2,928.35	2,886.25	42.10	69.551		
5,900.00	5,858.25	4,948.70	4,487.28	23.70	37.78	133.98	-2,196.36	-164.63	2,981.87	2,938.99	42.88	69.538		
6,000.00	5,957.49	5,033.15	4,561.79	24.11	38.52	133.94	-2,236.11	-165.85	3,035.39	2,991.73	43.66	69.525		
6,100.00	6,056.73	5,117.61	4,636.30	24.52	39.26	133.90	-2,275.87	-167.06	3,088.91	3,044.47	44.44	69.512		
6,200.00	6,155.96	5,202.07	4,710.80	24.93	40.00	133.87	-2,315.62	-168.28	3,142.43	3,097.21	45.22	69.499		
6,300.00	6,255.20	5,286.53	4,785.31	25.34	40.75	133.83	-2,355.38	-169.49	3,195.95	3,149.95	45.99	69.485		
6,400.00	6,354.43	5,370.98	4,859.81	25.76	41.49	133.80	-2,395.13	-170.71	3,249.47	3,202.69	46.77	69.472		
6,500.00	6,453.67	5,455.44	4,934.32	26.17	42.23	133.77	-2,434.89	-171.92	3,302.99	3,255.43	47.55	69.458		
6,600.00	6,552.91	5,539.90	5,008.83	26.58	42.98	133.74	-2,474.64	-173.14	3,356.51	3,308.18	48.33	69.444		
6,700.00	6,652.14	5,624.36	5,083.33	26.99	43.72	133.71	-2,514.39	-174.35	3,410.03	3,360.92	49.11	69.430		
6,800.00	6,751.38	5,708.81	5,157.84	27.40	44.46	133.68	-2,554.15	-175.57	3,463.56	3,413.66	49.90	69.416		
6,900.00	6,850.61	5,806.73	5,232.34	27.81	45.33	133.65	-2,593.90	-176.79	3,517.08	3,466.33	50.75	69.307		
7,000.00	6,949.85	5,877.73	5,306.85	28.22	45.95	133.62	-2,633.66	-178.00	3,570.61	3,519.15	51.46	69.387		
7,100.00	7,049.09	5,962.18	5,381.36	28.64	46.69	133.60	-2,673.41	-179.22	3,624.13	3,571.89	52.24	69.372		
7,200.00	7,148.32	6,046.64	5,455.86	29.05	47.44	133.57	-2,713.17	-180.43	3,677.66	3,624.63	53.02	69.357		
7,300.00	7,247.89	6,131.40	5,530.64	29.42	48.18	-134.63	-2,753.06	-181.65	3,730.06	3,676.30	53.76	69.380		
7,400.00	7,346.79	6,215.66	5,604.97	29.67	48.93	-86.08	-2,792.73	-182.86	3,778.36	3,723.99	54.37	69.490		
7,500.00	7,442.07	6,303.11	5,676.62	29.83	49.70	-74.81	-2,830.96	-184.03	3,821.32	3,766.42	54.90	69.607		
7,600.00	7,530.81	6,372.62	5,743.43	29.92	50.31	-69.13	-2,866.61	-185.12	3,858.11	3,802.85	55.26	69.822		
7,700.00	7,610.33	6,440.55	5,803.35	29.97	50.91	-65.66	-2,898.58	-186.10	3,888.18	3,832.61	55.57	69.974		
7,800.00	7,678.21	6,498.61	5,854.58	30.00	51.42	-63.49	-2,925.91	-186.94	3,911.24	3,855.40	55.84	70.043		
7,900.00	7,732.39	6,545.05	5,895.54	30.08	51.83	-62.21	-2,947.77	-187.60	3,927.19	3,871.06	56.13	69.965		
8,000.00	7,771.23	6,578.45	5,925.01	30.28	52.12	-61.61	-2,963.49	-188.09	3,936.06	3,879.57	56.49	69.678		
8,100.00	7,793.53	6,602.20	5,942.08	30.66	52.33	-61.57	-2,972.60	-188.36	3,937.97	3,881.00	56.97	69.128		
8,200.00	7,799.00	6,602.82	5,946.51	31.25	52.33	-61.89	-2,974.96	-188.44	3,933.28	3,875.78	57.50	68.405		
8,300.00	7,799.00	6,603.18	5,946.83	32.08	52.34	-61.90	-2,975.13	-188.44	3,928.23	3,869.99	58.24	67.455		
8,400.00	7,799.00	6,603.55	5,947.15	33.13	52.34	-61.90	-2,975.31	-188.45	3,925.71	3,866.53	59.18	66.337		
8,448.77	7,799.00	6,603.73	5,947.31	33.73	52.34	-61.91	-2,975.39	-188.45	3,925.41	3,865.68	59.73	65.723		
8,500.00	7,799.00	6,603.91	5,947.47	34.37	52.34	-61.91	-2,975.48	-188.45	3,925.74	3,865.43	60.31	65.093		
8,600.00	7,799.00	6,604.28	5,947.79	35.78	52.35	-61.91	-2,975.65	-188.46	3,928.32	3,866.71	61.61	63.760		
8,700.00	7,799.00	6,604.64	5,948.11	37.33	52.35	-61.92	-2,975.82	-188.46	3,933.44	3,870.38	63.06	62.375		
8,800.00	7,799.00	6,605.01	5,948.44	39.00	52.35	-61.92	-2,975.99	-188.47	3,941.09	3,876.45	64.64	60.971		
8,900.00	7,799.00	6,605.37	5,948.76	40.79	52.36	-61.93	-2,976.16	-188.47	3,951.26	3,884.93	66.33	59.573		
9,000.00	7,799.00	6,605.74	5,949.08	42.67	52.36	-61.94	-2,976.34	-188.48	3,963.92	3,895.82	68.11	58.203		
9,100.00	7,799.00	6,606.10	5,949.40	44.63	52.36	-61.94	-2,976.51	-188.48	3,979.06	3,909.10	69.96	56.877		
9,200.00	7,799.00	6,606.47	5,949.72	46.66	52.37	-61.95	-2,976.68	-188.49	3,996.65	3,924.77	71.87	55.608		
9,300.00	7,799.00	6,606.83	5,950.05	48.76	52.37	-61.95	-2,976.85	-188.49	4,016.64	3,942.81	73.83	54.404		
9,400.00	7,799.00	6,607.20	5,950.37	50.92	52.37	-61.96	-2,977.02	-188.50	4,039.02	3,963.20	75.82	53.270		
9,500.00	7,799.00	6,607.56	5,950.69	53.12	52.38	-61.96	-2,977.20	-188.50	4,063.73	3,985.90	77.83	52.211		
9,600.00	7,799.00	6,607.93	5,951.01	55.37	52.38	-61.97	-2,977.37	-188.51	4,090.74	4,010.88	79.86	51.226		
9,700.00	7,799.00	6,608.29	5,951.33	57.65	52.38	-61.97	-2,977.54	-188.52	4,120.00	4,038.12	81.88	50.317		
9,800.00	7,799.00	6,608.66	5,951.65	59.97	52.39	-61.98	-2,977.71	-188.52	4,151.46	4,067.56	83.90	49.482		
9,900.00	7,799.00	6,609.02	5,951.98	62.32	52.39	-61.98	-2,977.88	-188.53	4,185.08	4,099.18	85.90	48.719		
10,000.00	7,799.00	6,609.38	5,952.30	64.69	52.39	-61.99	-2,978.05	-188.53	4,220.80	4,132.91	87.89	48.026		
10,100.00	7,799.00	6,609.75	5,952.62	67.09	52.40	-61.99	-2,978.23	-188.54	4,258.56	4,168.72	89.84	47.400		
10,200.00	7,799.00	6,610.11	5,952.94	69.51	52.40	-62.00	-2,978.40	-188.54	4,298.33	4,206.56	91.77	46.838		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 4AH - 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	7,799.00	6,610.48	5,953.26	71.95	52.40	-62.00	-2,978.57	-188.55	4,340.03	4,246.37	93.66	46.337		
10,400.00	7,799.00	6,610.84	5,953.59	74.41	52.41	-62.01	-2,978.74	-188.55	4,383.62	4,288.10	95.51	45.895		
10,500.00	7,799.00	6,611.21	5,953.91	76.89	52.41	-62.02	-2,978.91	-188.56	4,429.03	4,331.71	97.33	45.507		
10,600.00	7,799.00	6,611.57	5,954.23	79.37	52.41	-62.02	-2,979.08	-188.56	4,476.22	4,377.13	99.10	45.171		
10,700.00	7,799.00	6,611.94	5,954.55	81.87	52.42	-62.03	-2,979.26	-188.57	4,525.13	4,424.31	100.82	44.884		
10,800.00	7,799.00	6,612.30	5,954.87	84.39	52.42	-62.03	-2,979.43	-188.57	4,575.70	4,473.21	102.49	44.644		
10,900.00	7,799.00	6,612.67	5,955.20	86.91	52.42	-62.04	-2,979.60	-188.58	4,627.88	4,523.76	104.12	44.446		
11,000.00	7,799.00	6,613.03	5,955.52	89.44	52.42	-62.04	-2,979.77	-188.58	4,681.62	4,575.91	105.70	44.290		
11,100.00	7,799.00	6,613.40	5,955.84	91.99	52.43	-62.05	-2,979.94	-188.59	4,736.85	4,629.62	107.23	44.173		
11,200.00	7,799.00	6,613.76	5,956.16	94.54	52.43	-62.05	-2,980.11	-188.59	4,793.54	4,684.82	108.72	44.091		
11,300.00	7,799.00	6,614.13	5,956.48	97.10	52.43	-62.06	-2,980.29	-188.60	4,851.62	4,741.47	110.15	44.044		
11,400.00	7,799.00	6,614.49	5,956.80	99.66	52.44	-62.06	-2,980.46	-188.60	4,911.06	4,799.52	111.54	44.029 SF		
11,500.00	7,799.00	6,614.86	5,957.13	102.24	52.44	-62.07	-2,980.63	-188.61	4,971.79	4,858.91	112.88	44.044		
11,600.00	7,799.00	6,615.22	5,957.45	104.82	52.44	-62.07	-2,980.80	-188.61	5,033.78	4,919.61	114.18	44.088		
11,700.00	7,799.00	6,615.59	5,957.77	107.40	52.45	-62.08	-2,980.97	-188.62	5,096.98	4,981.56	115.42	44.159		
11,800.00	7,799.00	6,615.95	5,958.09	109.99	52.45	-62.08	-2,981.14	-188.63	5,161.34	5,044.71	116.63	44.254		
11,900.00	7,799.00	6,616.35	5,958.44	112.58	52.45	-62.28	-2,981.33	-188.63	5,226.78	5,108.99	117.79	44.374		
12,000.00	7,799.00	6,618.34	5,960.20	115.17	52.47	-63.46	-2,982.27	-188.66	5,291.03	5,172.08	118.95	44.480		
12,100.00	7,799.00	6,622.78	5,964.12	117.74	52.51	-64.55	-2,984.36	-188.72	5,352.79	5,232.65	120.14	44.554		
12,200.00	7,799.00	6,629.68	5,970.20	120.27	52.57	-65.57	-2,987.61	-188.82	5,411.96	5,290.61	121.35	44.598		
12,300.00	7,799.00	6,639.00	5,978.43	122.76	52.65	-66.52	-2,992.00	-188.96	5,468.45	5,345.88	122.57	44.614		
12,400.00	7,799.00	6,650.73	5,988.77	125.19	52.76	-67.42	-2,997.52	-189.13	5,522.20	5,398.40	123.80	44.605		
12,500.00	7,799.00	6,664.83	6,001.21	127.57	52.88	-68.25	-3,004.15	-189.33	5,573.11	5,448.07	125.03	44.573		
12,600.00	7,799.00	6,681.05	6,015.52	129.88	53.02	-68.79	-3,011.79	-189.56	5,621.48	5,495.22	126.26	44.524		
12,700.00	7,799.00	6,702.33	6,030.18	132.19	53.21	-68.98	-3,019.61	-189.80	5,670.45	5,542.96	127.49	44.476		
12,800.00	7,799.00	6,714.28	6,044.84	134.50	53.32	-69.17	-3,027.43	-190.04	5,720.70	5,592.07	128.63	44.473		
12,900.00	7,799.00	6,730.90	6,059.49	136.83	53.46	-69.36	-3,035.25	-190.28	5,772.20	5,642.43	129.78	44.478		
13,000.00	7,799.00	6,747.51	6,074.15	139.16	53.61	-69.55	-3,043.07	-190.52	5,824.92	5,694.03	130.89	44.502		
13,100.00	7,799.00	6,764.13	6,088.81	141.50	53.76	-69.74	-3,050.89	-190.76	5,878.81	5,746.84	131.98	44.545		
13,200.00	7,799.00	6,780.74	6,103.46	143.84	53.90	-69.93	-3,058.71	-191.00	5,933.86	5,800.82	133.03	44.604		
13,300.00	7,799.00	6,797.36	6,118.12	146.19	54.05	-70.12	-3,066.53	-191.24	5,990.02	5,855.95	134.07	44.680		
13,400.00	7,799.00	6,813.97	6,132.78	148.55	54.19	-70.31	-3,074.35	-191.48	6,047.27	5,912.20	135.07	44.772		
13,500.00	7,799.00	6,830.58	6,147.43	150.92	54.34	-70.50	-3,082.17	-191.71	6,105.57	5,969.52	136.05	44.878		
13,600.00	7,799.00	6,847.20	6,162.09	153.29	54.49	-70.69	-3,089.99	-191.95	6,164.90	6,027.90	137.00	44.999		
13,700.00	7,799.00	6,863.81	6,176.75	155.66	54.63	-70.87	-3,097.82	-192.19	6,225.23	6,087.30	137.93	45.133		
13,800.00	7,799.00	6,880.43	6,191.41	158.04	54.78	-71.06	-3,105.64	-192.43	6,286.52	6,147.69	138.83	45.281		
13,900.00	7,799.00	6,902.96	6,206.06	160.43	54.98	-71.25	-3,113.46	-192.67	6,348.76	6,208.99	139.76	45.426		
14,000.00	7,799.00	6,913.66	6,220.72	162.82	55.07	-71.44	-3,121.28	-192.91	6,411.90	6,271.33	140.57	45.612		
14,100.00	7,799.00	6,930.27	6,235.38	165.21	55.22	-71.63	-3,129.10	-193.15	6,475.94	6,334.53	141.41	45.795		
14,200.00	7,799.00	6,946.89	6,250.03	167.61	55.36	-71.81	-3,136.92	-193.39	6,540.83	6,398.60	142.23	45.989		
14,300.00	7,799.00	6,963.50	6,264.69	170.02	55.51	-72.00	-3,144.74	-193.63	6,606.56	6,463.54	143.02	46.193		
14,400.00	7,799.00	6,980.12	6,279.35	172.42	55.66	-72.19	-3,152.56	-193.87	6,673.09	6,529.30	143.80	46.407		
14,500.00	7,799.00	7,003.27	6,294.00	174.84	55.86	-72.38	-3,160.38	-194.11	6,740.42	6,595.81	144.61	46.612		
14,600.00	7,799.00	7,012.46	6,307.88	177.28	55.94	-71.77	-3,167.78	-194.33	6,809.87	6,664.59	145.28	46.875		
14,700.00	7,799.00	7,025.87	6,319.71	179.78	56.06	-70.89	-3,174.09	-194.52	6,883.45	6,737.50	145.95	47.163		
14,800.00	7,799.00	7,036.89	6,329.43	182.34	56.16	-69.80	-3,179.28	-194.68	6,960.87	6,814.31	146.56	47.496		
14,900.00	7,799.00	7,045.51	6,337.03	184.94	56.23	-68.44	-3,183.34	-194.81	7,041.81	6,894.71	147.10	47.871		
15,000.00	7,799.00	7,051.69	6,342.49	187.56	56.29	-66.75	-3,186.25	-194.90	7,125.94	6,978.37	147.57	48.288		
15,100.00	7,799.00	7,055.42	6,345.77	190.21	56.32	-64.63	-3,188.00	-194.95	7,212.93	7,064.96	147.97	48.746		
15,200.00	7,799.00	7,057.08	6,347.24	192.85	56.34	-63.57	-3,188.79	-194.97	7,302.11	7,153.81	148.30	49.239		
15,300.00	7,799.00	7,058.52	6,348.51	195.50	56.35	-63.59	-3,189.46	-194.99	7,391.76	7,243.15	148.61	49.739		
15,400.00	7,799.00	7,059.95	6,349.78	198.16	56.36	-63.62	-3,190.14	-195.02	7,481.68	7,332.77	148.91	50.241		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 5-4-3 4AH - 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		
15,500.00	7,799.00	7,061.39	6,351.04	200.81	56.37	-63.64	-3,190.81	-195.04	7,571.85	7,422.64	149.21	50.747		
15,600.00	7,799.00	7,062.82	6,352.31	203.46	56.39	-63.67	-3,191.49	-195.06	7,662.26	7,512.77	149.49	51.256		
15,700.00	7,799.00	7,064.26	6,353.57	206.11	56.40	-63.70	-3,192.16	-195.08	7,752.91	7,603.14	149.77	51.767		
15,800.00	7,799.00	7,065.69	6,354.84	208.77	56.41	-63.72	-3,192.84	-195.10	7,843.78	7,693.75	150.03	52.280		
15,900.00	7,799.00	7,067.13	6,356.11	211.43	56.42	-63.75	-3,193.52	-195.12	7,934.88	7,784.58	150.29	52.797		
16,000.00	7,799.00	7,068.56	6,357.37	214.08	56.44	-63.77	-3,194.19	-195.14	8,026.18	7,875.64	150.54	53.315		
16,100.00	7,799.00	7,070.00	6,358.64	216.74	56.45	-63.80	-3,194.87	-195.16	8,117.69	7,966.91	150.79	53.836		
16,200.00	7,799.00	7,071.43	6,359.90	219.40	56.46	-63.82	-3,195.54	-195.18	8,209.40	8,058.38	151.02	54.359		
16,300.00	7,799.00	7,072.87	6,361.17	222.06	56.47	-63.85	-3,196.22	-195.20	8,301.30	8,150.05	151.25	54.884		
16,400.00	7,799.00	7,074.30	6,362.44	224.72	56.49	-63.87	-3,196.89	-195.22	8,393.38	8,241.91	151.48	55.411		
16,500.00	7,799.00	7,075.74	6,363.70	227.38	56.50	-63.90	-3,197.57	-195.24	8,485.64	8,333.95	151.69	55.940		
16,600.00	7,799.00	7,077.17	6,364.97	230.04	56.51	-63.92	-3,198.25	-195.26	8,578.08	8,426.18	151.90	56.470		
16,700.00	7,799.00	7,078.61	6,366.24	232.70	56.52	-63.95	-3,198.92	-195.28	8,670.68	8,518.57	152.11	57.002		
16,800.00	7,799.00	7,080.05	6,367.50	235.36	56.54	-63.97	-3,199.60	-195.30	8,763.45	8,611.14	152.31	57.536		
16,900.00	7,799.00	7,081.48	6,368.77	238.03	56.55	-64.00	-3,200.27	-195.33	8,856.37	8,703.87	152.51	58.072		
17,000.00	7,799.00	7,082.92	6,370.03	240.69	56.56	-64.02	-3,200.95	-195.35	8,949.45	8,796.75	152.70	58.609		
17,100.00	7,799.00	7,084.35	6,371.30	243.36	56.58	-64.05	-3,201.62	-195.37	9,042.67	8,889.79	152.88	59.147		
17,200.00	7,799.00	7,085.79	6,372.57	246.02	56.59	-64.07	-3,202.30	-195.39	9,136.04	8,982.97	153.07	59.687		
17,300.00	7,799.00	7,087.22	6,373.83	248.69	56.60	-64.10	-3,202.97	-195.41	9,229.54	9,076.30	153.24	60.228		
17,400.00	7,799.00	7,088.66	6,375.10	251.35	56.61	-64.12	-3,203.65	-195.43	9,323.18	9,169.77	153.42	60.770		
17,500.00	7,799.00	7,090.09	6,376.37	254.02	56.63	-64.15	-3,204.33	-195.45	9,416.95	9,263.37	153.59	61.313		
17,600.00	7,799.00	7,108.47	6,377.63	256.69	56.79	-64.17	-3,205.00	-195.47	9,510.85	9,356.95	153.90	61.800		
17,700.00	7,799.00	7,107.04	6,378.90	259.35	56.78	-64.20	-3,205.68	-195.49	9,604.87	9,450.83	154.04	62.355		
17,800.00	7,799.00	7,105.60	6,380.16	262.02	56.76	-64.23	-3,206.35	-195.51	9,699.01	9,544.84	154.17	62.911		
17,900.00	7,799.00	7,104.17	6,381.43	264.69	56.75	-64.25	-3,207.03	-195.53	9,793.27	9,638.96	154.30	63.468		
18,000.00	7,799.00	7,102.73	6,382.70	267.36	56.74	-64.28	-3,207.70	-195.55	9,887.63	9,733.20	154.43	64.026		
18,100.00	7,799.00	7,101.30	6,383.96	270.03	56.72	-64.30	-3,208.38	-195.57	9,982.11	9,827.55	154.56	64.586		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 2AH - 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	0.10	-0.10	0.00	0.00	-155.85	-18.21	-8.17	19.96					
100.00	100.00	100.10	99.90	0.14	0.14	-155.85	-18.21	-8.17	19.96	19.69	0.27	73.168		
200.00	200.00	200.10	199.90	0.49	0.50	-155.85	-18.21	-8.17	19.96	18.97	0.99	20.167	CC, ES	
300.00	299.98	300.12	299.88	0.85	0.85	147.18	-18.21	-8.17	21.40	19.70	1.70	12.555		
400.00	399.84	399.74	399.74	1.21	1.21	153.41	-18.21	-8.17	25.96	23.53	2.42	10.708		
500.00	499.45	499.72	499.70	1.58	1.56	157.16	-18.79	-6.53	33.42	30.29	3.14	10.653		
600.00	598.75	599.67	599.51	1.97	1.91	156.60	-20.54	-1.61	42.78	38.93	3.85	11.099		
700.00	697.98	699.65	699.10	2.37	2.27	152.77	-23.46	6.59	51.72	47.13	4.59	11.279		
800.00	797.22	800.73	798.08	2.77	2.65	147.60	-27.25	17.25	60.39	55.05	5.35	11.294		
900.00	896.46	901.24	896.90	3.17	3.03	143.61	-31.09	28.06	69.42	63.30	6.12	11.340		
1,000.00	995.69	1,001.75	995.73	3.58	3.43	140.55	-34.94	38.88	78.70	71.80	6.90	11.399		
1,100.00	1,094.93	1,102.26	1,094.56	3.98	3.82	138.14	-38.78	49.69	88.16	80.47	7.69	11.460		
1,200.00	1,194.16	1,202.77	1,193.38	4.39	4.22	136.20	-42.62	60.50	97.75	89.26	8.49	11.520		
1,300.00	1,293.40	1,303.28	1,292.21	4.80	4.62	134.61	-46.47	71.32	107.42	98.14	9.28	11.575		
1,400.00	1,392.64	1,396.21	1,391.03	5.21	5.00	133.28	-50.31	82.13	117.17	107.12	10.05	11.662		
1,500.00	1,491.87	1,495.70	1,489.86	5.62	5.40	132.15	-54.15	92.94	126.97	116.12	10.84	11.711		
1,600.00	1,591.11	1,604.81	1,588.69	6.03	5.84	131.19	-58.00	103.75	136.81	125.13	11.68	11.716		
1,700.00	1,690.34	1,705.32	1,687.51	6.44	6.24	130.35	-61.84	114.57	146.68	134.20	12.48	11.755		
1,800.00	1,789.58	1,805.83	1,786.34	6.85	6.65	129.63	-65.68	125.38	156.58	143.30	13.28	11.791		
1,900.00	1,888.82	1,906.34	1,885.17	7.26	7.06	128.98	-69.53	136.19	166.50	152.42	14.08	11.824		
2,000.00	1,988.05	2,006.85	1,983.99	7.67	7.46	128.41	-73.37	147.00	176.44	161.55	14.88	11.854		
2,100.00	2,087.29	2,107.36	2,082.82	8.08	7.87	127.90	-77.21	157.82	186.39	170.71	15.69	11.882		
2,200.00	2,186.52	2,207.87	2,181.65	8.49	8.28	127.45	-81.06	168.63	196.36	179.87	16.49	11.908		
2,300.00	2,285.76	2,308.38	2,280.47	8.90	8.69	127.03	-84.90	179.44	206.34	189.05	17.29	11.931		
2,400.00	2,385.00	2,408.89	2,379.30	9.31	9.10	126.66	-88.74	190.26	216.33	198.23	18.10	11.953		
2,500.00	2,484.23	2,509.40	2,478.12	9.72	9.51	126.32	-92.59	201.07	226.33	207.43	18.90	11.974		
2,600.00	2,583.47	2,609.91	2,576.95	10.13	9.91	126.00	-96.43	211.88	236.33	216.63	19.71	11.992		
2,700.00	2,682.70	2,689.58	2,675.78	10.54	10.24	125.72	-100.27	222.69	246.34	225.92	20.43	12.060		
2,800.00	2,781.94	2,789.08	2,774.60	10.95	10.64	125.45	-104.12	233.51	256.36	235.13	21.23	12.077		
2,900.00	2,881.18	2,888.57	2,873.43	11.36	11.05	125.21	-107.96	244.32	266.38	244.35	22.03	12.093		
3,000.00	2,980.41	2,988.06	2,972.26	11.77	11.46	124.98	-111.81	255.13	276.41	253.58	22.83	12.108		
3,100.00	3,079.65	3,087.55	3,071.08	12.19	11.86	124.77	-115.65	265.95	286.44	262.81	23.63	12.122		
3,200.00	3,178.88	3,187.04	3,169.91	12.60	12.27	124.57	-119.49	276.76	296.47	272.04	24.43	12.135		
3,300.00	3,278.12	3,286.53	3,268.73	13.01	12.67	124.39	-123.34	287.57	306.51	281.28	25.23	12.148		
3,400.00	3,377.36	3,386.02	3,367.56	13.42	13.08	124.21	-127.18	298.38	316.55	290.52	26.03	12.159		
3,500.00	3,476.59	3,485.51	3,466.39	13.83	13.48	124.05	-131.02	309.20	326.59	299.76	26.83	12.171		
3,600.00	3,575.83	3,585.00	3,565.21	14.24	13.89	123.90	-134.87	320.01	336.64	309.00	27.64	12.181		
3,700.00	3,675.06	3,684.49	3,664.04	14.65	14.30	123.76	-138.71	330.82	346.69	318.25	28.44	12.191		
3,800.00	3,774.30	3,783.98	3,762.87	15.06	14.70	123.62	-142.55	341.64	356.74	327.50	29.24	12.201		
3,900.00	3,873.53	3,883.47	3,861.69	15.47	15.11	123.49	-146.40	352.45	366.79	336.75	30.04	12.210		
4,000.00	3,972.77	3,982.96	3,960.52	15.89	15.51	123.37	-150.24	363.26	376.84	346.00	30.84	12.219		
4,100.00	4,072.01	4,082.45	4,059.34	16.30	15.92	123.26	-154.08	374.07	386.89	355.25	31.64	12.227		
4,200.00	4,171.24	4,181.94	4,158.17	16.71	16.33	123.15	-157.93	384.89	396.95	364.51	32.44	12.235		
4,300.00	4,270.48	4,281.43	4,257.00	17.12	16.73	123.04	-161.77	395.70	407.01	373.76	33.25	12.242		
4,400.00	4,369.71	4,380.92	4,355.82	17.53	17.14	122.95	-165.61	406.51	417.07	383.02	34.05	12.249		
4,500.00	4,468.95	4,480.41	4,454.65	17.94	17.54	122.85	-169.46	417.32	427.13	392.28	34.85	12.256		
4,600.00	4,568.19	4,579.90	4,553.48	18.35	17.95	122.76	-173.30	428.14	437.19	401.54	35.65	12.263		
4,700.00	4,667.42	4,679.39	4,652.30	18.76	18.36	122.68	-177.15	438.95	447.25	410.80	36.45	12.269		
4,800.00	4,766.66	4,778.88	4,751.13	19.18	18.76	122.59	-180.99	449.76	457.31	420.06	37.25	12.275		
4,900.00	4,865.89	4,878.37	4,849.95	19.59	19.17	122.52	-184.83	460.58	467.38	429.32	38.06	12.281		
5,000.00	4,965.13	4,977.86	4,948.78	20.00	19.58	122.44	-188.68	471.39	477.44	438.58	38.86	12.287		
5,100.00	5,064.37	5,077.35	5,047.61	20.41	19.98	122.37	-192.52	482.20	487.51	447.85	39.66	12.292		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 2AH - 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	5,163.60	5,176.84	5,146.43	20.82	20.39	122.30	-196.36	493.01	497.57	457.11	40.46	12.297		
5,300.00	5,262.84	5,276.33	5,245.26	21.23	20.80	122.23	-200.21	503.83	507.64	466.38	41.26	12.302		
5,400.00	5,362.07	5,375.82	5,344.09	21.64	21.20	122.17	-204.05	514.64	517.71	475.64	42.07	12.307		
5,500.00	5,461.31	5,475.31	5,442.91	22.05	21.61	122.11	-207.89	525.45	527.78	484.91	42.87	12.312		
5,600.00	5,560.55	5,574.80	5,541.74	22.47	22.01	122.05	-211.74	536.27	537.84	494.17	43.67	12.316		
5,700.00	5,659.78	5,674.29	5,640.57	22.88	22.42	121.99	-215.58	547.08	547.91	503.44	44.47	12.320		
5,800.00	5,759.02	5,773.78	5,739.39	23.29	22.83	121.94	-219.42	557.89	557.98	512.71	45.27	12.325		
5,900.00	5,858.25	5,873.28	5,838.22	23.70	23.23	121.88	-223.27	568.70	568.05	521.98	46.08	12.329		
6,000.00	5,957.49	5,972.77	5,937.04	24.11	23.64	121.83	-227.11	579.52	578.12	531.25	46.88	12.333		
6,100.00	6,056.73	6,072.26	6,035.87	24.52	24.05	121.78	-230.95	590.33	588.20	540.52	47.68	12.336		
6,200.00	6,155.96	6,171.75	6,134.70	24.93	24.45	121.74	-234.80	601.14	598.27	549.78	48.48	12.340		
6,300.00	6,255.20	6,271.24	6,233.52	25.34	24.86	121.69	-238.64	611.96	608.34	559.05	49.28	12.343		
6,400.00	6,354.43	6,370.73	6,332.35	25.76	25.27	121.65	-242.49	622.77	618.41	568.32	50.09	12.347		
6,500.00	6,453.67	6,470.22	6,431.18	26.17	25.67	121.60	-246.33	633.58	628.48	577.60	50.89	12.350		
6,600.00	6,552.91	6,569.71	6,530.00	26.58	26.08	121.56	-250.17	644.39	638.56	586.87	51.69	12.353		
6,700.00	6,652.14	6,669.20	6,628.83	26.99	26.49	121.52	-254.02	655.21	648.63	596.14	52.49	12.357		
6,800.00	6,751.38	6,768.69	6,727.65	27.40	26.89	121.48	-257.86	666.02	658.70	605.41	53.30	12.360		
6,900.00	6,850.61	6,868.18	6,826.48	27.81	27.30	121.44	-261.70	676.83	668.78	614.68	54.10	12.362		
7,000.00	6,949.85	6,967.67	6,925.31	28.22	27.71	121.41	-265.55	687.64	678.85	623.95	54.90	12.365		
7,100.00	7,049.09	7,067.16	7,024.13	28.64	28.11	121.37	-269.39	698.46	688.93	633.22	55.70	12.368		
7,200.00	7,148.32	7,166.65	7,122.96	29.05	28.52	121.34	-273.23	709.27	699.00	642.50	56.50	12.371		
7,300.00	7,247.89	7,265.76	7,221.63	29.42	28.90	-150.97	-277.02	717.12	709.13	651.89	57.24	12.390		
7,400.00	7,346.79	7,365.22	7,320.59	29.67	29.16	-106.60	-280.53	709.27	719.29	661.54	57.74	12.456		
7,500.00	7,442.07	7,465.50	7,417.50	29.83	29.33	-98.49	-283.67	684.17	729.19	671.10	58.09	12.552		
7,600.00	7,530.81	7,566.67	7,509.34	29.92	29.45	-95.06	-286.31	642.14	738.53	680.21	58.33	12.662		
7,700.00	7,610.33	7,668.73	7,593.06	29.97	29.52	-93.10	-288.37	584.05	747.03	688.52	58.51	12.767		
7,800.00	7,678.21	7,771.67	7,665.75	30.00	29.60	-91.82	-289.75	511.37	754.42	695.67	58.75	12.842		
7,900.00	7,732.39	7,875.40	7,724.69	30.08	29.74	-90.96	-290.41	426.18	760.46	701.31	59.15	12.856		
8,000.00	7,771.23	7,979.80	7,767.56	30.28	30.00	-90.40	-290.30	331.15	764.97	705.13	59.84	12.784		
8,100.00	7,793.53	8,084.69	7,792.58	30.66	30.44	-90.09	-289.41	229.44	767.79	706.92	60.86	12.615		
8,200.00	7,799.00	8,188.91	7,799.00	31.25	31.07	-90.01	-287.80	125.55	768.86	706.65	62.22	12.358		
8,300.00	7,799.00	8,288.91	7,799.00	32.08	31.90	-90.01	-286.01	25.57	769.36	705.42	63.94	12.033		
8,400.00	7,799.00	8,388.90	7,799.00	33.13	32.94	-90.01	-284.23	-74.41	769.86	703.81	66.05	11.656		
8,500.00	7,799.00	8,488.90	7,799.00	34.37	34.16	-90.01	-282.45	-174.39	770.36	701.84	68.52	11.243		
8,600.00	7,799.00	8,588.90	7,799.00	35.78	35.55	-90.01	-280.66	-274.38	770.86	699.54	71.31	10.809		
8,700.00	7,799.00	8,688.90	7,799.00	37.33	37.09	-90.01	-278.88	-374.36	771.36	696.96	74.39	10.369		
8,800.00	7,799.00	8,788.90	7,799.00	39.00	38.76	-90.01	-277.10	-474.34	771.86	694.13	77.73	9.931		
8,900.00	7,799.00	8,888.90	7,799.00	40.79	40.54	-90.01	-275.32	-574.33	772.35	691.08	81.28	9.503		
9,000.00	7,799.00	8,988.90	7,799.00	42.67	42.41	-90.01	-273.53	-674.31	772.85	687.83	85.02	9.090		
9,100.00	7,799.00	9,088.90	7,799.00	44.63	44.37	-90.01	-271.75	-774.29	773.35	684.41	88.94	8.695		
9,200.00	7,799.00	9,188.89	7,799.00	46.66	46.41	-90.01	-269.97	-874.27	773.85	680.85	93.00	8.321		
9,300.00	7,799.00	9,288.89	7,799.00	48.76	48.50	-90.01	-268.18	-974.26	774.35	677.16	97.19	7.967		
9,400.00	7,799.00	9,388.89	7,799.00	50.92	50.66	-90.01	-266.40	-1,074.24	774.85	673.35	101.50	7.634		
9,500.00	7,799.00	9,488.89	7,799.00	53.12	52.86	-90.01	-264.62	-1,174.22	775.35	669.44	105.90	7.321		
9,600.00	7,799.00	9,588.89	7,799.00	55.37	55.11	-90.01	-262.83	-1,274.21	775.84	665.45	110.39	7.028		
9,700.00	7,799.00	9,688.89	7,799.00	57.65	57.40	-90.01	-261.05	-1,374.19	776.34	661.38	114.96	6.753		
9,800.00	7,799.00	9,788.89	7,799.00	59.97	59.72	-90.01	-259.27	-1,474.17	776.84	657.24	119.60	6.495		
9,900.00	7,799.00	9,888.89	7,799.00	62.32	62.07	-90.01	-257.48	-1,574.15	777.34	653.04	124.30	6.254		
10,000.00	7,799.00	9,988.88	7,799.00	64.69	64.44	-90.01	-255.70	-1,674.14	777.84	648.79	129.05	6.027		
10,100.00	7,799.00	10,088.88	7,799.00	67.09	66.84	-90.01	-253.92	-1,774.12	778.34	644.49	133.85	5.815		
10,200.00	7,799.00	10,188.88	7,799.00	69.51	69.27	-90.01	-252.14	-1,874.10	778.84	640.14	138.69	5.616		
10,300.00	7,799.00	10,288.88	7,799.00	71.95	71.71	-90.01	-250.35	-1,974.09	779.33	635.76	143.58	5.428		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 2AH - 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	7,799.00	10,388.88	7,799.00	74.41	74.17	-90.01	-248.57	-2,074.07	779.83	631.34	148.49	5.252		
10,500.00	7,799.00	10,488.88	7,799.00	76.89	76.64	-90.01	-246.79	-2,174.05	780.33	626.89	153.44	5.086		
10,600.00	7,799.00	10,588.88	7,799.00	79.37	79.13	-90.01	-245.00	-2,274.03	780.83	622.41	158.42	4.929		
10,700.00	7,799.00	10,688.88	7,799.00	81.87	81.64	-90.01	-243.22	-2,374.02	781.33	617.90	163.42	4.781		
10,800.00	7,799.00	10,788.87	7,799.00	84.39	84.15	-90.01	-241.44	-2,474.00	781.83	613.38	168.45	4.641		
10,900.00	7,799.00	10,888.87	7,799.00	86.91	86.67	-90.01	-239.65	-2,573.98	782.33	608.82	173.50	4.509		
11,000.00	7,799.00	10,988.87	7,799.00	89.44	89.21	-90.01	-237.87	-2,673.97	782.82	604.25	178.57	4.384		
11,100.00	7,799.00	11,088.87	7,799.00	91.99	91.75	-90.01	-236.09	-2,773.95	783.32	599.66	183.66	4.265		
11,200.00	7,799.00	11,188.87	7,799.00	94.54	94.31	-90.01	-234.31	-2,873.93	783.82	595.06	188.76	4.152		
11,300.00	7,799.00	11,288.87	7,799.00	97.10	96.87	-90.01	-232.52	-2,973.91	784.32	590.44	193.88	4.045		
11,400.00	7,799.00	11,388.87	7,799.00	99.66	99.43	-90.01	-230.74	-3,073.90	784.82	585.80	199.02	3.943		
11,500.00	7,799.00	11,488.87	7,799.00	102.24	102.01	-90.01	-228.96	-3,173.88	785.32	581.15	204.16	3.847		
11,600.00	7,799.00	11,588.86	7,799.00	104.82	104.59	-90.01	-227.17	-3,273.86	785.82	576.49	209.32	3.754		
11,700.00	7,799.00	11,688.86	7,799.00	107.40	107.17	-90.01	-225.39	-3,373.85	786.31	571.82	214.49	3.666		
11,800.00	7,799.00	11,788.86	7,799.00	109.99	109.76	-90.01	-223.61	-3,473.83	786.81	567.14	219.67	3.582		
11,900.00	7,799.00	11,884.17	7,799.00	112.58	112.24	-90.01	-221.96	-3,569.12	787.31	562.58	224.73	3.503		
12,000.00	7,799.00	11,962.61	7,799.00	115.17	114.27	-90.01	-222.10	-3,647.56	786.32	557.15	229.18	3.431		
12,100.00	7,799.00	12,041.06	7,799.00	117.74	116.30	-90.01	-224.39	-3,725.97	782.84	549.38	233.46	3.353		
12,200.00	7,799.00	12,119.52	7,799.00	120.27	118.33	-90.01	-228.83	-3,804.30	776.86	539.31	237.55	3.270		
12,300.00	7,799.00	12,200.00	7,799.00	122.76	120.40	-90.01	-235.61	-3,884.50	768.40	526.82	241.57	3.181		
12,400.00	7,799.00	12,276.47	7,799.00	125.19	122.35	-90.01	-244.13	-3,960.49	757.44	512.30	245.14	3.090		
12,500.00	7,799.00	12,354.98	7,799.00	127.57	124.34	-90.01	-254.99	-4,038.25	744.01	495.38	248.63	2.992		
12,600.00	7,799.00	12,433.58	7,799.00	129.88	126.32	-90.01	-267.99	-4,115.76	728.57	476.67	251.90	2.892		
12,700.00	7,799.00	12,512.72	7,799.00	132.19	128.30	-90.01	-283.23	-4,193.41	714.98	459.99	255.00	2.804		
12,800.00	7,799.00	12,592.40	7,799.00	134.50	130.27	-90.01	-300.73	-4,271.14	704.15	446.23	257.92	2.730		
12,900.00	7,799.00	12,672.50	7,799.00	136.83	132.22	-90.01	-320.49	-4,348.77	696.09	435.43	260.66	2.671		
13,000.00	7,799.00	12,771.38	7,799.00	139.16	134.63	-90.01	-346.35	-4,444.20	689.55	424.05	265.50	2.597		
13,100.00	7,799.00	12,871.16	7,799.00	141.50	137.06	-90.01	-372.45	-4,540.52	683.01	412.56	270.45	2.525		
13,200.00	7,799.00	12,970.95	7,799.00	143.84	139.49	-90.01	-398.55	-4,636.83	676.48	401.06	275.42	2.456		
13,300.00	7,799.00	13,070.74	7,799.00	146.19	141.93	-90.01	-424.64	-4,733.14	669.94	389.56	280.39	2.389		
13,400.00	7,799.00	13,170.52	7,799.00	148.55	144.38	-90.01	-450.74	-4,829.46	663.41	378.05	285.36	2.325		
13,500.00	7,799.00	13,270.31	7,799.00	150.92	146.83	-90.01	-476.84	-4,925.77	656.88	366.54	290.34	2.262		
13,600.00	7,799.00	13,370.10	7,799.00	153.29	149.28	-90.01	-502.94	-5,022.08	650.34	355.02	295.32	2.202		
13,700.00	7,799.00	13,469.88	7,799.00	155.66	151.74	-90.01	-529.03	-5,118.39	643.81	343.49	300.31	2.144		
13,800.00	7,799.00	13,569.67	7,799.00	158.04	154.20	-90.01	-555.13	-5,214.71	637.27	331.97	305.30	2.087		
13,900.00	7,799.00	13,669.45	7,799.00	160.43	156.67	-90.01	-581.23	-5,311.02	630.74	320.43	310.30	2.033		
14,000.00	7,799.00	13,769.24	7,799.00	162.82	159.14	-90.01	-607.33	-5,407.33	624.20	308.90	315.30	1.980		
14,100.00	7,799.00	13,869.03	7,799.00	165.21	161.61	-90.01	-633.42	-5,503.65	617.67	297.36	320.31	1.928		
14,200.00	7,799.00	13,968.81	7,799.00	167.61	164.09	-90.01	-659.52	-5,599.96	611.13	285.81	325.32	1.879		
14,300.00	7,799.00	14,068.60	7,799.00	170.02	166.57	-90.01	-685.62	-5,696.27	604.60	274.27	330.33	1.830		
14,400.00	7,799.00	14,168.39	7,799.00	172.42	169.05	-90.01	-711.72	-5,792.59	598.06	262.72	335.35	1.783		
14,500.00	7,799.00	14,268.17	7,799.00	174.84	171.54	-90.01	-737.81	-5,888.90	591.53	251.16	340.37	1.738		
14,600.00	7,799.00	14,368.06	7,799.00	177.28	174.03	-90.01	-763.94	-5,985.31	586.99	241.58	345.41	1.699		
14,637.62	7,799.00	14,405.68	7,799.00	178.22	174.97	-90.01	-773.78	-6,021.62	586.62	239.30	347.32	1.689		
14,700.00	7,799.00	14,472.86	7,799.00	179.78	176.65	-90.01	-791.25	-6,086.48	587.56	236.44	351.12	1.673		
14,800.00	7,799.00	14,598.68	7,799.00	182.34	179.83	-90.01	-820.48	-6,208.86	590.43	231.19	359.24	1.644		
14,900.00	7,799.00	14,724.65	7,799.00	184.94	183.08	-90.01	-844.34	-6,332.54	594.14	227.38	366.76	1.620		
15,000.00	7,799.00	14,850.81	7,799.00	187.56	186.36	-90.01	-862.75	-6,457.34	598.68	225.03	373.65	1.602		
15,100.00	7,799.00	14,977.19	7,799.00	190.21	189.68	-90.01	-875.67	-6,583.04	604.05	224.17	379.88	1.590		
15,200.00	7,799.00	15,103.89	7,799.00	192.85	193.03	-90.01	-883.05	-6,709.51	609.40	223.96	385.44	1.581		
15,300.00	7,799.00	15,225.99	7,799.00	195.50	196.27	-90.01	-884.92	-6,831.59	610.88	220.45	390.43	1.565		
15,400.00	7,799.00	15,325.99	7,799.00	198.16	198.92	-90.01	-884.91	-6,931.59	610.88	215.13	395.75	1.544		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOS 5-64 6-1 2AH - 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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	7,799.00	15,425.99	7,799.00	200.81	201.57	-90.01	-884.90	-7,031.59	610.88	209.81	401.07	1.523	
15,600.00	7,799.00	15,525.99	7,799.00	203.46	204.22	-90.01	-884.90	-7,131.59	610.88	204.48	406.39	1.503	
15,700.00	7,799.00	15,625.99	7,799.00	206.11	206.88	-90.01	-884.89	-7,231.59	610.88	199.16	411.72	1.484	Level 3
15,800.00	7,799.00	15,725.99	7,799.00	208.77	209.53	-90.01	-884.88	-7,331.59	610.88	193.83	417.04	1.465	Level 3
15,900.00	7,799.00	15,825.99	7,799.00	211.43	212.19	-90.01	-884.87	-7,431.59	610.88	188.51	422.37	1.446	Level 3
16,000.00	7,799.00	15,925.99	7,799.00	214.08	214.84	-90.01	-884.86	-7,531.59	610.88	183.18	427.70	1.428	Level 3
16,100.00	7,799.00	16,025.99	7,799.00	216.74	217.50	-90.01	-884.85	-7,631.59	610.88	177.85	433.03	1.411	Level 3
16,200.00	7,799.00	16,125.99	7,799.00	219.40	220.16	-90.01	-884.85	-7,731.59	610.88	172.51	438.36	1.394	Level 3
16,300.00	7,799.00	16,225.99	7,799.00	222.06	222.82	-90.01	-884.84	-7,831.59	610.88	167.18	443.70	1.377	Level 3
16,400.00	7,799.00	16,325.99	7,799.00	224.72	225.48	-90.01	-884.83	-7,931.59	610.88	161.85	449.03	1.360	Level 3
16,500.00	7,799.00	16,425.99	7,799.00	227.38	228.14	-90.01	-884.82	-8,031.59	610.88	156.51	454.37	1.344	Level 3
16,600.00	7,799.00	16,525.99	7,799.00	230.04	230.80	-90.01	-884.81	-8,131.59	610.88	151.17	459.70	1.329	Level 3
16,700.00	7,799.00	16,625.99	7,799.00	232.70	233.46	-90.01	-884.80	-8,231.59	610.88	145.84	465.04	1.314	Level 3
16,800.00	7,799.00	16,725.99	7,799.00	235.36	236.13	-90.01	-884.80	-8,331.59	610.87	140.50	470.38	1.299	Level 3
16,900.00	7,799.00	16,825.99	7,799.00	238.03	238.79	-90.01	-884.79	-8,431.59	610.87	135.16	475.72	1.284	Level 3
17,000.00	7,799.00	16,925.99	7,799.00	240.69	241.45	-90.01	-884.78	-8,531.59	610.87	129.82	481.06	1.270	Level 3
17,100.00	7,799.00	17,025.99	7,799.00	243.36	244.12	-90.01	-884.77	-8,631.59	610.87	124.48	486.40	1.256	Level 3
17,200.00	7,799.00	17,125.99	7,799.00	246.02	246.78	-90.01	-884.76	-8,731.59	610.87	119.13	491.74	1.242	Level 2
17,300.00	7,799.00	17,225.99	7,799.00	248.69	249.45	-90.01	-884.75	-8,831.59	610.87	113.79	497.08	1.229	Level 2
17,400.00	7,799.00	17,325.99	7,799.00	251.35	252.12	-90.01	-884.75	-8,931.59	610.87	108.45	502.43	1.216	Level 2
17,500.00	7,799.00	17,425.99	7,799.00	254.02	254.78	-90.01	-884.74	-9,031.59	610.87	103.10	507.77	1.203	Level 2
17,600.00	7,799.00	17,525.99	7,799.00	256.69	257.45	-90.01	-884.73	-9,131.59	610.87	97.76	513.12	1.191	Level 2
17,700.00	7,799.00	17,625.99	7,799.00	259.35	260.12	-90.01	-884.72	-9,231.59	610.87	92.41	518.46	1.178	Level 2
17,800.00	7,799.00	17,725.99	7,799.00	262.02	262.79	-90.01	-884.71	-9,331.59	610.87	87.06	523.81	1.166	Level 2
17,900.00	7,799.00	17,825.99	7,799.00	264.69	265.45	-90.01	-884.70	-9,431.59	610.87	81.71	529.16	1.154	Level 2
18,000.00	7,799.00	17,925.99	7,799.00	267.36	268.12	-90.01	-884.69	-9,531.59	610.87	76.37	534.50	1.143	Level 2
18,100.00	7,799.00	18,025.99	7,799.00	270.03	270.79	-90.01	-884.69	-9,631.59	610.87	71.02	539.85	1.132	Level 2
18,200.00	7,799.00	18,125.99	7,799.00	272.70	273.46	-90.01	-884.68	-9,731.59	610.87	65.67	545.20	1.120	Level 2
18,300.00	7,799.00	18,225.99	7,799.00	275.37	276.13	-90.01	-884.67	-9,831.59	610.87	60.32	550.55	1.110	Level 2
18,400.00	7,799.00	18,325.99	7,799.00	278.04	278.57	-90.01	-884.66	-9,931.59	610.87	55.21	555.66	1.099	Level 2
18,464.45	7,799.00	18,390.44	7,799.00	279.17	279.69	-90.01	-884.66	-9,996.04	610.87	52.96	557.91	1.095	Level 2, SF

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 2BH - 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	0.24	-0.24	0.00	0.00	-155.85	-36.43	-16.33	39.92					
100.00	100.00	100.24	99.76	0.14	0.14	-155.85	-36.43	-16.33	39.92	39.65	0.27	146.068		
200.00	200.00	200.24	199.76	0.49	0.50	-155.85	-36.43	-16.33	39.92	38.93	0.99	40.314	CC, ES	
300.00	299.98	300.26	299.74	0.85	0.85	145.87	-36.43	-16.33	41.35	39.65	1.71	24.249		
400.00	399.84	400.40	399.60	1.21	1.21	149.50	-36.43	-16.33	45.78	43.35	2.43	18.867		
500.00	499.45	500.79	499.21	1.58	1.57	154.17	-36.43	-16.33	53.48	50.32	3.15	16.955		
600.00	598.75	598.51	598.51	1.97	1.92	158.72	-36.43	-16.33	64.34	60.46	3.88	16.600		
700.00	697.98	697.23	697.21	2.37	2.26	160.86	-37.74	-15.33	76.30	71.72	4.58	16.666		
800.00	797.22	795.81	795.66	2.77	2.60	160.24	-41.74	-12.27	89.02	83.74	5.28	16.871		
900.00	896.46	894.04	893.52	3.17	2.94	157.93	-48.40	-7.17	102.57	96.58	5.99	17.126		
1,000.00	995.69	991.68	990.46	3.58	3.29	154.58	-57.66	-0.09	117.25	110.54	6.72	17.455		
1,100.00	1,094.93	1,088.51	1,086.15	3.98	3.66	150.66	-69.43	8.91	133.48	126.01	7.46	17.887		
1,200.00	1,194.16	1,185.64	1,181.68	4.39	4.06	146.64	-83.37	19.56	151.38	143.15	8.23	18.401		
1,300.00	1,293.40	1,283.47	1,277.85	4.80	4.47	143.35	-97.63	30.47	170.01	161.00	9.01	18.876		
1,400.00	1,392.64	1,381.30	1,374.02	5.21	4.90	140.72	-111.89	41.37	189.08	179.28	9.79	19.308		
1,500.00	1,491.87	1,479.13	1,470.19	5.62	5.33	138.57	-126.15	52.27	208.46	197.87	10.58	19.699		
1,600.00	1,591.11	1,576.96	1,566.36	6.03	5.76	136.79	-140.40	63.17	228.07	216.70	11.37	20.052		
1,700.00	1,690.34	1,674.79	1,662.53	6.44	6.20	135.29	-154.66	74.07	247.87	235.70	12.17	20.371		
1,800.00	1,789.58	1,772.62	1,758.70	6.85	6.65	134.01	-168.92	84.98	267.80	254.84	12.96	20.659		
1,900.00	1,888.82	1,870.45	1,854.87	7.26	7.10	132.91	-183.18	95.88	287.85	274.09	13.76	20.920		
2,000.00	1,988.05	1,968.28	1,951.04	7.67	7.55	131.95	-197.44	106.78	307.98	293.43	14.56	21.158		
2,100.00	2,087.29	2,066.11	2,047.21	8.08	8.00	131.11	-211.69	117.68	328.19	312.84	15.35	21.375		
2,200.00	2,186.52	2,163.94	2,143.38	8.49	8.46	130.37	-225.95	128.59	348.46	332.31	16.15	21.573		
2,300.00	2,285.76	2,261.77	2,239.55	8.90	8.91	129.71	-240.21	139.49	368.77	351.82	16.95	21.755		
2,400.00	2,385.00	2,359.60	2,335.71	9.31	9.37	129.12	-254.47	150.39	389.13	371.38	17.75	21.923		
2,500.00	2,484.23	2,457.44	2,431.88	9.72	9.83	128.58	-268.73	161.29	409.53	390.98	18.55	22.078		
2,600.00	2,583.47	2,555.27	2,528.05	10.13	10.29	128.10	-282.99	172.19	429.96	410.61	19.35	22.221		
2,700.00	2,682.70	2,653.10	2,624.22	10.54	10.75	127.66	-297.24	183.10	450.41	430.26	20.15	22.354		
2,800.00	2,781.94	2,750.93	2,720.39	10.95	11.21	127.26	-311.50	194.00	470.89	449.94	20.95	22.477		
2,900.00	2,881.18	2,848.76	2,816.56	11.36	11.67	126.89	-325.76	204.90	491.38	469.63	21.75	22.592		
3,000.00	2,980.41	2,946.59	2,912.73	11.77	12.13	126.55	-340.02	215.80	511.90	489.35	22.55	22.700		
3,100.00	3,079.65	3,044.42	3,008.90	12.19	12.59	126.24	-354.28	226.71	532.43	509.08	23.35	22.801		
3,200.00	3,178.88	3,142.25	3,105.07	12.60	13.06	125.95	-368.54	237.61	552.97	528.82	24.15	22.895		
3,300.00	3,278.12	3,240.08	3,201.24	13.01	13.52	125.68	-382.79	248.51	573.53	548.58	24.95	22.984		
3,400.00	3,377.36	3,337.91	3,297.41	13.42	13.98	125.43	-397.05	259.41	594.10	568.34	25.75	23.068		
3,500.00	3,476.59	3,435.74	3,393.58	13.83	14.45	125.20	-411.31	270.31	614.68	588.12	26.56	23.147		
3,600.00	3,575.83	3,533.57	3,489.75	14.24	14.91	124.98	-425.57	281.22	635.26	607.91	27.36	23.221		
3,700.00	3,675.06	3,631.40	3,585.92	14.65	15.38	124.78	-439.83	292.12	655.86	627.70	28.16	23.291		
3,800.00	3,774.30	3,729.23	3,682.09	15.06	15.84	124.59	-454.09	303.02	676.46	647.50	28.96	23.358		
3,900.00	3,873.53	3,827.06	3,778.26	15.47	16.31	124.41	-468.34	313.92	697.07	667.31	29.76	23.421		
4,000.00	3,972.77	3,924.89	3,874.43	15.89	16.77	124.24	-482.60	324.83	717.69	687.12	30.56	23.481		
4,100.00	4,072.01	4,022.72	3,970.60	16.30	17.24	124.08	-496.86	335.73	738.31	706.94	31.37	23.539		
4,200.00	4,171.24	4,120.55	4,066.77	16.71	17.70	123.92	-511.12	346.63	758.94	726.77	32.17	23.593		
4,300.00	4,270.48	4,218.38	4,162.94	17.12	18.17	123.78	-525.38	357.53	779.57	746.60	32.97	23.645		
4,400.00	4,369.71	4,316.21	4,259.11	17.53	18.63	123.64	-539.63	368.44	800.20	766.43	33.77	23.694		
4,500.00	4,468.95	4,414.04	4,355.28	17.94	19.10	123.51	-553.89	379.34	820.84	786.27	34.57	23.741		
4,600.00	4,568.19	4,511.87	4,451.45	18.35	19.57	123.39	-568.15	390.24	841.49	806.11	35.38	23.787		
4,700.00	4,667.42	4,609.70	4,547.62	18.76	20.03	123.27	-582.41	401.14	862.14	825.96	36.18	23.830		
4,800.00	4,766.66	4,707.53	4,643.79	19.18	20.50	123.16	-596.67	412.04	882.79	845.81	36.98	23.871		
4,900.00	4,865.89	4,805.36	4,739.96	19.59	20.97	123.06	-610.93	422.95	903.44	865.66	37.78	23.911		
5,000.00	4,965.13	4,903.19	4,836.13	20.00	21.43	122.95	-625.18	433.85	924.10	885.51	38.59	23.949		
5,100.00	5,064.37	5,001.02	4,932.29	20.41	21.90	122.86	-639.44	444.75	944.76	905.37	39.39	23.985		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 2BH - 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	5,163.60	5,101.15	5,028.46	20.82	22.38	122.76	-653.70	455.65	965.42	925.22	40.20	24.015		
5,300.00	5,262.84	5,203.32	5,124.63	21.23	22.86	122.67	-667.96	466.56	986.09	945.06	41.02	24.038		
5,400.00	5,362.07	5,305.49	5,220.80	21.64	23.35	122.59	-682.22	477.46	1,006.75	964.91	41.84	24.060		
5,500.00	5,461.31	5,407.66	5,316.97	22.05	23.84	122.50	-696.48	488.36	1,027.42	984.76	42.66	24.081		
5,600.00	5,560.55	5,509.83	5,413.14	22.47	24.33	122.43	-710.73	499.26	1,048.09	1,004.61	43.49	24.102		
5,700.00	5,659.78	5,588.00	5,509.31	22.88	24.70	122.35	-724.99	510.16	1,068.77	1,024.56	44.21	24.177		
5,800.00	5,759.02	5,685.83	5,605.48	23.29	25.17	122.28	-739.25	521.07	1,089.44	1,044.43	45.01	24.205		
5,900.00	5,858.25	5,783.66	5,701.65	23.70	25.64	122.21	-753.51	531.97	1,110.12	1,064.30	45.81	24.232		
6,000.00	5,957.49	5,881.49	5,797.82	24.11	26.10	122.14	-767.77	542.87	1,130.79	1,084.18	46.62	24.258		
6,100.00	6,056.73	5,979.32	5,893.99	24.52	26.57	122.07	-782.02	553.77	1,151.47	1,104.05	47.42	24.283		
6,200.00	6,155.96	6,077.15	5,990.16	24.93	27.04	122.01	-796.28	564.68	1,172.15	1,123.93	48.22	24.307		
6,300.00	6,255.20	6,174.98	6,086.33	25.34	27.50	121.95	-810.54	575.58	1,192.83	1,143.81	49.03	24.331		
6,400.00	6,354.43	6,272.81	6,182.50	25.76	27.97	121.89	-824.80	586.48	1,213.52	1,163.69	49.83	24.354		
6,500.00	6,453.67	6,370.64	6,278.67	26.17	28.44	121.83	-839.06	597.38	1,234.20	1,183.57	50.63	24.376		
6,600.00	6,552.91	6,468.47	6,374.84	26.58	28.91	121.78	-853.32	608.28	1,254.89	1,203.45	51.44	24.397		
6,700.00	6,652.14	6,566.30	6,471.01	26.99	29.38	121.73	-867.57	619.19	1,275.57	1,223.33	52.24	24.418		
6,800.00	6,751.38	6,664.13	6,567.18	27.40	29.84	121.67	-881.83	630.09	1,296.26	1,243.22	53.04	24.438		
6,900.00	6,850.61	6,761.96	6,663.35	27.81	30.31	121.62	-896.09	640.99	1,316.95	1,263.10	53.85	24.457		
7,000.00	6,949.85	6,859.80	6,759.52	28.22	30.78	121.58	-910.35	651.89	1,337.64	1,282.99	54.65	24.476		
7,100.00	7,049.09	6,957.63	6,855.69	28.64	31.25	121.53	-924.61	662.80	1,358.33	1,302.87	55.45	24.495		
7,200.00	7,148.32	7,055.46	6,951.86	29.05	31.71	121.48	-938.87	673.70	1,379.02	1,322.76	56.26	24.512		
7,300.00	7,247.89	7,152.95	7,047.70	29.42	32.18	-149.96	-953.08	684.56	1,399.71	1,342.70	57.00	24.554		
7,400.00	7,346.79	7,247.85	7,140.98	29.67	32.63	-105.08	-966.91	695.14	1,420.28	1,362.69	57.59	24.664		
7,500.00	7,442.07	7,340.66	7,232.50	29.83	33.05	-96.90	-980.43	701.76	1,440.85	1,382.83	58.02	24.832		
7,600.00	7,530.81	7,439.48	7,329.78	29.92	33.37	-93.49	-994.61	693.03	1,461.18	1,402.82	58.36	25.038		
7,700.00	7,610.33	7,546.48	7,431.76	29.97	33.60	-91.65	-1,009.25	664.71	1,480.67	1,422.03	58.64	25.250		
7,800.00	7,678.21	7,663.65	7,535.34	30.00	33.73	-90.62	-1,023.84	612.38	1,498.59	1,439.67	58.92	25.433		
7,900.00	7,732.39	7,792.88	7,634.78	30.08	33.76	-90.09	-1,037.47	531.41	1,514.14	1,454.85	59.29	25.536		
8,000.00	7,771.23	7,935.22	7,720.53	30.28	33.69	-89.92	-1,048.70	418.81	1,526.41	1,466.49	59.92	25.474		
8,100.00	7,793.53	8,089.64	7,779.52	30.66	33.54	-89.94	-1,055.66	276.79	1,534.50	1,473.48	61.02	25.147		
8,200.00	7,799.00	8,247.42	7,799.00	31.25	33.38	-90.01	-1,056.63	120.71	1,537.69	1,475.00	62.70	24.526		
8,300.00	7,799.00	8,347.41	7,799.00	32.08	33.38	-90.01	-1,055.43	20.73	1,538.77	1,474.37	64.39	23.896		
8,400.00	7,799.00	8,447.40	7,799.00	33.13	33.69	-90.01	-1,054.22	-79.26	1,539.84	1,473.38	66.46	23.168		
8,500.00	7,799.00	8,547.40	7,799.00	34.37	34.58	-90.01	-1,053.02	-179.25	1,540.92	1,472.02	68.90	22.366		
8,600.00	7,799.00	8,647.39	7,799.00	35.78	35.89	-90.01	-1,051.81	-279.23	1,541.99	1,470.34	71.65	21.521		
8,700.00	7,799.00	8,747.39	7,799.00	37.33	37.41	-90.01	-1,050.60	-379.22	1,543.07	1,468.38	74.69	20.659		
8,800.00	7,799.00	8,847.38	7,799.00	39.00	39.07	-90.01	-1,049.40	-479.21	1,544.14	1,466.15	77.99	19.799		
8,900.00	7,799.00	8,947.38	7,799.00	40.79	40.85	-90.01	-1,048.19	-579.20	1,545.22	1,463.71	81.51	18.958		
9,000.00	7,799.00	9,047.37	7,799.00	42.67	42.72	-90.01	-1,046.98	-679.18	1,546.29	1,461.07	85.22	18.144		
9,100.00	7,799.00	9,147.36	7,799.00	44.63	44.67	-90.01	-1,045.78	-779.17	1,547.37	1,458.26	89.11	17.365		
9,200.00	7,799.00	9,247.36	7,799.00	46.66	46.70	-90.01	-1,044.57	-879.16	1,548.45	1,455.30	93.15	16.624		
9,300.00	7,799.00	9,347.35	7,799.00	48.76	48.79	-90.01	-1,043.37	-979.14	1,549.52	1,452.21	97.31	15.923		
9,400.00	7,799.00	9,447.35	7,799.00	50.92	50.93	-90.01	-1,042.16	-1,079.13	1,550.60	1,449.00	101.60	15.263		
9,500.00	7,799.00	9,547.34	7,799.00	53.12	53.13	-90.01	-1,040.95	-1,179.12	1,551.67	1,445.69	105.98	14.641		
9,600.00	7,799.00	9,647.33	7,799.00	55.37	55.36	-90.01	-1,039.75	-1,279.10	1,552.75	1,442.30	110.45	14.058		
9,700.00	7,799.00	9,747.33	7,799.00	57.65	57.64	-90.01	-1,038.54	-1,379.09	1,553.82	1,438.82	115.00	13.511		
9,800.00	7,799.00	9,847.32	7,799.00	59.97	59.94	-90.01	-1,037.33	-1,479.08	1,554.90	1,435.28	119.62	12.999		
9,900.00	7,799.00	9,947.32	7,799.00	62.32	62.28	-90.01	-1,036.13	-1,579.06	1,555.97	1,431.67	124.30	12.518		
10,000.00	7,799.00	10,047.31	7,799.00	64.69	64.65	-90.01	-1,034.92	-1,679.05	1,557.05	1,428.01	129.04	12.066		
10,100.00	7,799.00	10,147.31	7,799.00	67.09	67.04	-90.01	-1,033.72	-1,779.04	1,558.12	1,424.30	133.83	11.643		
10,200.00	7,799.00	10,247.30	7,799.00	69.51	69.45	-90.01	-1,032.51	-1,879.03	1,559.20	1,420.54	138.66	11.245		
10,300.00	7,799.00	10,347.29	7,799.00	71.95	71.88	-90.01	-1,031.30	-1,979.01	1,560.27	1,416.75	143.53	10.871		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 2BH - 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	7,799.00	10,447.29	7,799.00	74.41	74.32	-90.01	-1,030.10	-2,079.00	1,561.35	1,412.92	148.43	10.519		
10,500.00	7,799.00	10,547.28	7,799.00	76.89	76.79	-90.01	-1,028.89	-2,178.99	1,562.43	1,409.05	153.37	10.187		
10,600.00	7,799.00	10,647.28	7,799.00	79.37	79.27	-90.01	-1,027.68	-2,278.97	1,563.50	1,405.16	158.34	9.874		
10,700.00	7,799.00	10,747.27	7,799.00	81.87	81.76	-90.01	-1,026.48	-2,378.96	1,564.58	1,401.24	163.33	9.579		
10,800.00	7,799.00	10,847.27	7,799.00	84.39	84.26	-90.01	-1,025.27	-2,478.95	1,565.65	1,397.30	168.35	9.300		
10,900.00	7,799.00	10,947.26	7,799.00	86.91	86.78	-90.01	-1,024.07	-2,578.93	1,566.73	1,393.33	173.39	9.036		
11,000.00	7,799.00	11,047.25	7,799.00	89.44	89.30	-90.01	-1,022.86	-2,678.92	1,567.80	1,389.35	178.46	8.785		
11,100.00	7,799.00	11,147.25	7,799.00	91.99	91.84	-90.01	-1,021.65	-2,778.91	1,568.88	1,385.34	183.54	8.548		
11,200.00	7,799.00	11,247.24	7,799.00	94.54	94.38	-90.01	-1,020.45	-2,878.89	1,569.95	1,381.32	188.63	8.323		
11,300.00	7,799.00	11,347.24	7,799.00	97.10	96.93	-90.01	-1,019.24	-2,978.88	1,571.03	1,377.28	193.75	8.109		
11,400.00	7,799.00	11,447.23	7,799.00	99.66	99.49	-90.01	-1,018.03	-3,078.87	1,572.10	1,373.23	198.87	7.905		
11,500.00	7,799.00	11,547.22	7,799.00	102.24	102.06	-90.01	-1,016.83	-3,178.86	1,573.18	1,369.17	204.01	7.711		
11,600.00	7,799.00	11,647.22	7,799.00	104.82	104.63	-90.01	-1,015.62	-3,278.84	1,574.25	1,365.09	209.17	7.526		
11,700.00	7,799.00	11,747.21	7,799.00	107.40	107.20	-90.01	-1,014.42	-3,378.83	1,575.33	1,361.00	214.33	7.350		
11,800.00	7,799.00	11,847.21	7,799.00	109.99	109.79	-90.01	-1,013.21	-3,478.82	1,576.40	1,356.90	219.51	7.182		
11,900.00	7,799.00	11,934.80	7,799.00	112.58	112.05	-90.01	-1,012.24	-3,566.41	1,577.55	1,353.18	224.38	7.031		
12,000.00	7,799.00	12,000.00	7,799.00	115.17	113.74	-90.01	-1,012.71	-3,631.60	1,577.09	1,348.48	228.61	6.899		
12,100.00	7,799.00	12,063.76	7,799.00	117.74	115.39	-90.01	-1,014.60	-3,695.34	1,573.64	1,340.96	232.68	6.763		
12,200.00	7,799.00	12,128.22	7,799.00	120.27	117.06	-90.01	-1,017.96	-3,759.70	1,567.21	1,330.57	236.64	6.623		
12,300.00	7,799.00	12,200.00	7,799.00	122.76	118.91	-90.01	-1,023.39	-3,831.27	1,557.83	1,317.09	240.74	6.471		
12,400.00	7,799.00	12,256.99	7,799.00	125.19	120.37	-90.01	-1,028.99	-3,887.99	1,545.43	1,301.29	244.14	6.330		
12,500.00	7,799.00	12,321.29	7,799.00	127.57	122.02	-90.01	-1,036.65	-3,951.83	1,530.09	1,282.43	247.66	6.178		
12,600.00	7,799.00	12,385.56	7,799.00	129.88	123.65	-90.01	-1,045.74	-4,015.45	1,512.26	1,261.23	251.03	6.024		
12,700.00	7,799.00	12,450.23	7,799.00	132.19	125.29	-90.01	-1,056.33	-4,079.25	1,495.77	1,241.48	254.29	5.882		
12,800.00	7,799.00	12,542.25	7,799.00	134.50	127.62	-90.01	-1,072.80	-4,169.78	1,480.81	1,221.93	258.88	5.720		
12,900.00	7,799.00	12,641.13	7,799.00	136.83	130.12	-90.01	-1,090.53	-4,267.06	1,465.90	1,202.06	263.84	5.556		
13,000.00	7,799.00	12,740.01	7,799.00	139.16	132.62	-90.01	-1,108.26	-4,364.34	1,450.98	1,182.19	268.80	5.398		
13,100.00	7,799.00	12,838.90	7,799.00	141.50	135.13	-90.01	-1,126.00	-4,461.62	1,436.07	1,162.31	273.76	5.246		
13,200.00	7,799.00	12,937.78	7,799.00	143.84	137.64	-90.01	-1,143.73	-4,558.90	1,421.16	1,142.43	278.73	5.099		
13,300.00	7,799.00	13,036.66	7,799.00	146.19	140.15	-90.01	-1,161.46	-4,656.17	1,406.24	1,122.54	283.71	4.957		
13,400.00	7,799.00	13,135.54	7,799.00	148.55	142.67	-90.01	-1,179.19	-4,753.45	1,391.33	1,102.64	288.69	4.820		
13,500.00	7,799.00	13,234.42	7,799.00	150.92	145.19	-90.01	-1,196.93	-4,850.73	1,376.41	1,082.74	293.67	4.687		
13,600.00	7,799.00	13,333.30	7,799.00	153.29	147.72	-90.01	-1,214.66	-4,948.01	1,361.50	1,062.84	298.66	4.559		
13,700.00	7,799.00	13,432.19	7,799.00	155.66	150.24	-90.01	-1,232.39	-5,045.29	1,346.59	1,042.93	303.65	4.435		
13,800.00	7,799.00	13,531.07	7,799.00	158.04	152.77	-90.01	-1,250.12	-5,142.57	1,331.67	1,023.02	308.65	4.314		
13,900.00	7,799.00	13,629.95	7,799.00	160.43	155.30	-90.01	-1,267.86	-5,239.85	1,316.76	1,003.10	313.66	4.198		
14,000.00	7,799.00	13,728.83	7,799.00	162.82	157.84	-90.01	-1,285.59	-5,337.13	1,301.84	983.18	318.66	4.085		
14,100.00	7,799.00	13,827.71	7,799.00	165.21	160.37	-90.01	-1,303.32	-5,434.40	1,286.93	963.26	323.67	3.976		
14,200.00	7,799.00	13,926.59	7,799.00	167.61	162.91	-90.01	-1,321.05	-5,531.68	1,272.02	943.33	328.68	3.870		
14,300.00	7,799.00	14,025.47	7,799.00	170.02	165.45	-90.01	-1,338.79	-5,628.96	1,257.10	923.40	333.70	3.767		
14,400.00	7,799.00	14,124.36	7,799.00	172.42	167.99	-90.01	-1,356.52	-5,726.24	1,242.19	903.47	338.72	3.667		
14,500.00	7,799.00	14,223.24	7,799.00	174.84	170.54	-90.01	-1,374.25	-5,823.52	1,227.27	883.53	343.74	3.570		
14,600.00	7,799.00	14,322.39	7,799.00	177.28	173.09	-90.01	-1,392.03	-5,921.06	1,214.33	865.54	348.79	3.482		
14,700.00	7,799.00	14,422.07	7,799.00	179.78	175.66	-90.01	-1,409.91	-6,019.13	1,206.56	852.65	353.91	3.409		
14,800.00	7,799.00	14,576.16	7,799.00	182.34	179.65	-90.01	-1,434.68	-6,171.20	1,202.33	840.74	361.59	3.325		
14,900.00	7,799.00	14,748.04	7,799.00	184.94	184.16	-90.01	-1,452.74	-6,342.10	1,197.52	828.46	369.06	3.245		
15,000.00	7,799.00	14,919.32	7,799.00	187.56	188.69	-90.01	-1,460.52	-6,513.18	1,191.96	816.69	375.27	3.176		
15,100.00	7,799.00	15,025.93	7,799.00	190.21	191.51	-90.01	-1,461.62	-6,619.78	1,188.11	807.52	380.59	3.122		
15,155.80	7,799.00	15,081.73	7,799.00	191.68	192.98	-90.01	-1,462.17	-6,675.58	1,187.76	804.20	383.55	3.097		
15,200.00	7,799.00	15,125.92	7,799.00	192.85	194.16	-90.01	-1,462.61	-6,719.77	1,188.62	802.72	385.90	3.080		
15,300.00	7,799.00	15,225.92	7,799.00	195.50	196.80	-90.01	-1,463.60	-6,819.76	1,189.62	798.40	391.22	3.041		
15,400.00	7,799.00	15,325.91	7,799.00	198.16	199.45	-90.01	-1,464.59	-6,919.75	1,190.62	794.08	396.53	3.003		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 2BH - 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		
15,500.00	7,799.00	15,425.91	7,799.00	200.81	202.11	-90.01	-1,465.58	-7,019.74	1,191.61	789.76	401.85	2.965		
15,600.00	7,799.00	15,525.90	7,799.00	203.46	204.76	-90.01	-1,466.57	-7,119.73	1,192.61	785.44	407.17	2.929		
15,700.00	7,799.00	15,625.90	7,799.00	206.11	207.41	-90.01	-1,467.56	-7,219.72	1,193.61	781.12	412.49	2.894		
15,800.00	7,799.00	15,725.89	7,799.00	208.77	210.06	-90.01	-1,468.55	-7,319.71	1,194.61	776.79	417.82	2.859		
15,900.00	7,799.00	15,825.89	7,799.00	211.43	212.72	-90.01	-1,469.54	-7,419.70	1,195.61	772.47	423.14	2.826		
16,000.00	7,799.00	15,925.88	7,799.00	214.08	215.37	-90.01	-1,470.53	-7,519.69	1,196.61	768.14	428.47	2.793		
16,100.00	7,799.00	16,025.88	7,799.00	216.74	218.03	-90.01	-1,471.52	-7,619.68	1,197.60	763.81	433.79	2.761		
16,200.00	7,799.00	16,125.87	7,799.00	219.40	220.69	-90.01	-1,472.51	-7,719.67	1,198.60	759.48	439.12	2.730		
16,300.00	7,799.00	16,225.87	7,799.00	222.06	223.35	-90.01	-1,473.50	-7,819.66	1,199.60	755.15	444.45	2.699		
16,400.00	7,799.00	16,325.86	7,799.00	224.72	226.00	-90.01	-1,474.49	-7,919.65	1,200.60	750.82	449.78	2.669		
16,500.00	7,799.00	16,425.86	7,799.00	227.38	228.66	-90.01	-1,475.49	-8,019.64	1,201.60	746.48	455.12	2.640		
16,600.00	7,799.00	16,525.85	7,799.00	230.04	231.32	-90.01	-1,476.48	-8,119.63	1,202.60	742.15	460.45	2.612		
16,700.00	7,799.00	16,625.85	7,799.00	232.70	233.98	-90.01	-1,477.47	-8,219.62	1,203.60	737.81	465.78	2.584		
16,800.00	7,799.00	16,725.84	7,799.00	235.36	236.65	-90.01	-1,478.46	-8,319.61	1,204.59	733.48	471.12	2.557		
16,900.00	7,799.00	16,825.84	7,799.00	238.03	239.31	-90.01	-1,479.45	-8,419.60	1,205.59	729.14	476.46	2.530		
17,000.00	7,799.00	16,925.83	7,799.00	240.69	241.97	-90.01	-1,480.44	-8,519.59	1,206.59	724.80	481.79	2.504		
17,100.00	7,799.00	17,025.83	7,799.00	243.36	244.63	-90.01	-1,481.43	-8,619.58	1,207.59	720.46	487.13	2.479		
17,200.00	7,799.00	17,125.82	7,799.00	246.02	247.30	-90.01	-1,482.42	-8,719.57	1,208.59	716.12	492.47	2.454		
17,300.00	7,799.00	17,225.82	7,799.00	248.69	249.96	-90.01	-1,483.41	-8,819.56	1,209.59	711.78	497.81	2.430		
17,400.00	7,799.00	17,325.81	7,799.00	251.35	252.63	-90.01	-1,484.40	-8,919.55	1,210.59	707.43	503.15	2.406		
17,500.00	7,799.00	17,425.81	7,799.00	254.02	255.29	-90.01	-1,485.39	-9,019.54	1,211.58	703.09	508.49	2.383		
17,600.00	7,799.00	17,525.80	7,799.00	256.69	257.96	-90.01	-1,486.38	-9,119.53	1,212.58	698.75	513.84	2.360		
17,700.00	7,799.00	17,625.80	7,799.00	259.35	260.62	-90.01	-1,487.37	-9,219.52	1,213.58	694.40	519.18	2.338		
17,800.00	7,799.00	17,725.79	7,799.00	262.02	263.29	-90.01	-1,488.36	-9,319.51	1,214.58	690.06	524.52	2.316		
17,900.00	7,799.00	17,825.79	7,799.00	264.69	265.96	-90.01	-1,489.35	-9,419.50	1,215.58	685.71	529.87	2.294		
18,000.00	7,799.00	17,925.78	7,799.00	267.36	268.62	-90.01	-1,490.34	-9,519.49	1,216.58	681.36	535.21	2.273		
18,100.00	7,799.00	18,025.78	7,799.00	270.03	271.29	-90.01	-1,491.33	-9,619.48	1,217.58	677.02	540.56	2.252		
18,200.00	7,799.00	18,125.77	7,799.00	272.70	273.96	-90.01	-1,492.32	-9,719.47	1,218.57	672.67	545.91	2.232		
18,300.00	7,799.00	18,225.77	7,799.00	275.37	276.63	-90.01	-1,493.31	-9,819.46	1,219.57	668.32	551.25	2.212		
18,400.00	7,799.00	18,325.76	7,799.00	278.04	279.30	-90.01	-1,494.30	-9,919.45	1,220.57	663.97	556.60	2.193		
18,464.45	7,799.00	18,390.21	7,799.00	279.17	281.02	-90.01	-1,494.94	-9,983.90	1,221.21	661.77	559.45	2.183 SF		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 3AH - 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	0.52	-0.52	0.00	0.00	-156.24	-55.00	-24.22	60.10					
100.00	100.00	100.52	99.48	0.14	0.14	-156.24	-55.00	-24.22	60.10	59.82	0.27	219.097		
200.00	200.00	200.52	199.48	0.49	0.50	-156.24	-55.00	-24.22	60.10	59.11	0.99	60.630	CC, ES	
300.00	299.98	300.54	299.46	0.85	0.86	145.03	-55.00	-24.22	61.52	59.81	1.71	36.054		
400.00	399.84	400.68	399.32	1.21	1.21	147.59	-55.00	-24.22	65.88	63.45	2.43	27.140		
500.00	499.45	501.07	498.93	1.58	1.57	151.16	-55.00	-24.22	73.39	70.23	3.16	23.259		
600.00	598.75	601.77	598.23	1.97	1.93	155.01	-55.00	-24.22	83.95	80.07	3.89	21.588		
700.00	697.98	702.54	697.46	2.37	2.30	158.14	-55.00	-24.22	95.29	90.68	4.61	20.655		
800.00	797.22	796.70	796.70	2.77	2.63	160.60	-55.00	-24.22	106.85	101.54	5.31	20.105		
900.00	896.46	894.37	894.35	3.17	2.97	161.86	-56.42	-23.57	119.20	113.19	6.01	19.820		
1,000.00	995.69	991.68	991.54	3.58	3.29	161.55	-60.84	-21.56	132.94	126.23	6.70	19.831		
1,100.00	1,094.93	1,088.47	1,087.98	3.98	3.62	160.13	-68.21	-18.20	148.09	140.69	7.40	20.013		
1,200.00	1,194.16	1,184.52	1,183.37	4.39	3.96	157.96	-78.45	-13.53	164.84	156.74	8.11	20.338		
1,300.00	1,293.40	1,279.63	1,277.39	4.80	4.32	155.32	-91.45	-7.60	183.43	174.61	8.82	20.800		
1,400.00	1,392.64	1,373.61	1,369.78	5.21	4.69	152.43	-107.08	-0.48	204.09	194.55	9.54	21.399		
1,500.00	1,491.87	1,466.27	1,460.28	5.62	5.08	149.45	-125.19	7.77	227.06	216.80	10.26	22.135		
1,600.00	1,591.11	1,557.45	1,548.66	6.03	5.49	146.50	-145.59	17.07	252.50	241.53	10.98	23.001		
1,700.00	1,690.34	1,650.84	1,638.57	6.44	5.93	143.65	-168.55	27.53	280.12	268.39	11.73	23.877		
1,800.00	1,789.58	1,745.99	1,730.14	6.85	6.41	141.22	-192.10	38.27	308.43	295.92	12.51	24.650		
1,900.00	1,888.82	1,841.15	1,821.71	7.26	6.90	139.21	-215.64	49.00	337.16	323.87	13.30	25.356		
2,000.00	1,988.05	1,936.30	1,913.27	7.67	7.40	137.50	-239.19	59.73	366.23	352.14	14.09	26.001		
2,100.00	2,087.29	2,031.46	2,004.84	8.08	7.90	136.05	-262.74	70.46	395.54	380.67	14.88	26.591		
2,200.00	2,186.52	2,126.61	2,096.41	8.49	8.42	134.80	-286.29	81.20	425.06	409.40	15.67	27.131		
2,300.00	2,285.76	2,221.77	2,187.98	8.90	8.94	133.70	-309.84	91.93	454.75	438.29	16.46	27.627		
2,400.00	2,385.00	2,316.92	2,279.55	9.31	9.47	132.75	-333.38	102.66	484.56	467.31	17.25	28.083		
2,500.00	2,484.23	2,412.08	2,371.12	9.72	10.00	131.90	-356.93	113.39	514.49	496.44	18.05	28.503		
2,600.00	2,583.47	2,507.23	2,462.68	10.13	10.53	131.14	-380.48	124.13	544.51	525.66	18.85	28.892		
2,700.00	2,682.70	2,602.39	2,554.25	10.54	11.07	130.47	-404.03	134.86	574.60	554.96	19.64	29.251		
2,800.00	2,781.94	2,702.46	2,645.82	10.95	11.63	129.86	-427.58	145.59	604.76	584.30	20.46	29.553		
2,900.00	2,881.18	2,807.30	2,737.39	11.36	12.23	129.31	-451.12	156.32	634.98	613.67	21.31	29.803		
3,000.00	2,980.41	2,887.85	2,828.96	11.77	12.69	128.80	-474.67	167.06	665.25	643.21	22.04	30.186		
3,100.00	3,079.65	2,983.01	2,920.53	12.19	13.24	128.35	-498.22	177.79	695.55	672.72	22.84	30.456		
3,200.00	3,178.88	3,078.16	3,012.10	12.60	13.78	127.93	-521.77	188.52	725.90	702.26	23.64	30.710		
3,300.00	3,278.12	3,173.32	3,103.66	13.01	14.33	127.54	-545.31	199.25	756.28	731.84	24.44	30.947		
3,400.00	3,377.36	3,268.47	3,195.23	13.42	14.88	127.18	-568.86	209.99	786.69	761.45	25.24	31.171		
3,500.00	3,476.59	3,363.63	3,286.80	13.83	15.43	126.85	-592.41	220.72	817.12	791.08	26.04	31.381		
3,600.00	3,575.83	3,458.78	3,378.37	14.24	15.98	126.55	-615.96	231.45	847.57	820.73	26.84	31.579		
3,700.00	3,675.06	3,553.94	3,469.94	14.65	16.53	126.26	-639.51	242.18	878.05	850.41	27.64	31.766		
3,800.00	3,774.30	3,649.09	3,561.51	15.06	17.09	126.00	-663.05	252.92	908.54	880.10	28.44	31.943		
3,900.00	3,873.53	3,744.25	3,653.07	15.47	17.64	125.75	-686.60	263.65	939.06	909.81	29.25	32.110		
4,000.00	3,972.77	3,839.40	3,744.64	15.89	18.19	125.52	-710.15	274.38	969.58	939.54	30.05	32.269		
4,100.00	4,072.01	3,934.56	3,836.21	16.30	18.75	125.30	-733.70	285.11	1,000.12	969.27	30.85	32.419		
4,200.00	4,171.24	4,029.71	3,927.78	16.71	19.30	125.09	-757.24	295.85	1,030.67	999.02	31.65	32.562		
4,300.00	4,270.48	4,124.87	4,019.35	17.12	19.86	124.90	-780.79	306.58	1,061.24	1,028.78	32.46	32.699		
4,400.00	4,369.71	4,220.02	4,110.92	17.53	20.42	124.71	-804.34	317.31	1,091.81	1,058.55	33.26	32.828		
4,500.00	4,468.95	4,315.18	4,202.49	17.94	20.97	124.54	-827.89	328.04	1,122.40	1,088.33	34.06	32.952		
4,600.00	4,568.19	4,410.33	4,294.05	18.35	21.53	124.38	-851.44	338.78	1,152.99	1,118.12	34.87	33.070		
4,700.00	4,667.42	4,505.49	4,385.62	18.76	22.09	124.22	-874.98	349.51	1,183.59	1,147.92	35.67	33.183		
4,800.00	4,766.66	4,600.64	4,477.19	19.18	22.64	124.07	-898.53	360.24	1,214.20	1,177.73	36.47	33.291		
4,900.00	4,865.89	4,695.79	4,568.76	19.59	23.20	123.93	-922.08	370.97	1,244.81	1,207.54	37.28	33.394		
5,000.00	4,965.13	4,809.05	4,660.33	20.00	23.87	123.80	-945.63	381.71	1,275.43	1,237.27	38.16	33.421		
5,100.00	5,064.37	4,886.10	4,751.90	20.41	24.32	123.67	-969.17	392.44	1,306.06	1,267.18	38.89	33.588		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 3AH - 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	5,163.60	4,981.26	4,843.46	20.82	24.88	123.55	-992.72	403.17	1,336.70	1,297.01	39.69	33.679		
5,300.00	5,262.84	5,076.41	4,935.03	21.23	25.44	123.43	-1,016.27	413.90	1,367.33	1,326.84	40.49	33.766		
5,400.00	5,362.07	5,171.57	5,026.60	21.64	26.00	123.32	-1,039.82	424.64	1,397.98	1,356.68	41.30	33.850		
5,500.00	5,461.31	5,266.72	5,118.17	22.05	26.56	123.22	-1,063.37	435.37	1,428.63	1,386.52	42.10	33.931		
5,600.00	5,560.55	5,361.88	5,209.74	22.47	27.12	123.11	-1,086.91	446.10	1,459.28	1,416.37	42.91	34.008		
5,700.00	5,659.78	5,457.03	5,301.31	22.88	27.68	123.02	-1,110.46	456.83	1,489.93	1,446.22	43.71	34.083		
5,800.00	5,759.02	5,552.19	5,392.88	23.29	28.24	122.92	-1,134.01	467.57	1,520.59	1,476.07	44.52	34.155		
5,900.00	5,858.25	5,647.34	5,484.44	23.70	28.80	122.83	-1,157.56	478.30	1,551.26	1,505.93	45.33	34.224		
6,000.00	5,957.49	5,742.50	5,576.01	24.11	29.36	122.75	-1,181.11	489.03	1,581.92	1,535.79	46.13	34.291		
6,100.00	6,056.73	5,837.65	5,667.58	24.52	29.92	122.66	-1,204.65	499.76	1,612.59	1,565.66	46.94	34.356		
6,200.00	6,155.96	5,932.81	5,759.15	24.93	30.48	122.58	-1,228.20	510.50	1,643.27	1,595.52	47.74	34.418		
6,300.00	6,255.20	6,027.96	5,850.72	25.34	31.04	122.51	-1,251.75	521.23	1,673.94	1,625.39	48.55	34.479		
6,400.00	6,354.43	6,123.12	5,942.29	25.76	31.60	122.43	-1,275.30	531.96	1,704.62	1,655.27	49.36	34.537		
6,500.00	6,453.67	6,218.27	6,033.85	26.17	32.16	122.36	-1,298.84	542.69	1,735.30	1,685.14	50.16	34.593		
6,600.00	6,552.91	6,313.43	6,125.42	26.58	32.72	122.29	-1,322.39	553.42	1,765.99	1,715.02	50.97	34.648		
6,700.00	6,652.14	6,408.58	6,216.99	26.99	33.28	122.22	-1,345.94	564.16	1,796.67	1,744.90	51.78	34.700		
6,800.00	6,751.38	6,503.74	6,308.56	27.40	33.84	122.16	-1,369.49	574.89	1,827.36	1,774.78	52.58	34.752		
6,900.00	6,850.61	6,598.89	6,400.13	27.81	34.40	122.10	-1,393.04	585.62	1,858.05	1,804.66	53.39	34.801		
7,000.00	6,949.85	6,705.95	6,491.70	28.22	35.04	122.04	-1,416.58	596.35	1,888.74	1,834.49	54.25	34.815		
7,100.00	7,049.09	6,789.20	6,583.27	28.64	35.53	121.98	-1,440.13	607.09	1,919.43	1,864.43	55.01	34.895		
7,200.00	7,148.32	6,884.36	6,674.83	29.05	36.09	121.92	-1,463.68	617.82	1,950.13	1,894.32	55.81	34.940		
7,300.00	7,247.89	6,979.15	6,766.05	29.42	36.65	-148.58	-1,487.14	628.51	1,980.75	1,924.19	56.56	35.021		
7,400.00	7,346.79	7,071.29	6,854.72	29.67	37.19	-102.42	-1,509.94	638.90	2,010.82	1,953.69	57.13	35.197		
7,500.00	7,442.07	7,157.98	6,938.14	29.83	37.70	-92.98	-1,531.39	648.68	2,040.00	1,982.46	57.54	35.451		
7,600.00	7,530.81	7,236.59	7,013.78	29.92	38.17	-88.51	-1,550.84	657.55	2,068.32	2,010.51	57.82	35.773		
7,700.00	7,610.33	7,304.71	7,079.34	29.97	38.57	-85.59	-1,567.70	665.23	2,096.00	2,038.02	57.98	36.149		
7,800.00	7,678.21	7,360.29	7,132.83	30.00	38.90	-83.24	-1,581.46	671.50	2,123.34	2,065.25	58.08	36.556		
7,900.00	7,732.39	7,401.64	7,172.62	30.08	39.14	-81.01	-1,591.69	676.16	2,150.55	2,092.37	58.18	36.962		
8,000.00	7,771.23	7,438.59	7,208.22	30.28	39.36	-78.95	-1,600.86	679.88	2,177.65	2,119.24	58.41	37.280		
8,100.00	7,793.53	7,478.15	7,246.47	30.66	39.57	-77.20	-1,610.79	681.42	2,204.27	2,145.41	58.86	37.452		
8,200.00	7,799.00	7,503.18	7,270.69	31.25	39.70	-75.80	-1,617.12	680.98	2,230.22	2,170.84	59.38	37.560		
8,300.00	7,799.00	8,380.17	7,799.00	32.08	40.59	-90.01	-1,772.62	109.22	2,256.93	2,192.48	64.45	35.018		
8,400.00	7,799.00	8,480.03	7,799.00	33.13	40.47	-90.01	-1,775.72	9.42	2,262.31	2,195.99	66.32	34.112		
8,500.00	7,799.00	8,579.88	7,799.00	34.37	40.39	-90.01	-1,778.81	-90.39	2,267.69	2,199.14	68.55	33.082		
8,600.00	7,799.00	8,679.74	7,799.00	35.78	40.36	-90.01	-1,781.90	-190.20	2,273.07	2,201.96	71.11	31.965		
8,700.00	7,799.00	8,779.59	7,799.00	37.33	40.40	-90.01	-1,785.00	-290.01	2,278.45	2,204.48	73.96	30.805		
8,800.00	7,799.00	8,879.45	7,799.00	39.00	40.65	-90.01	-1,788.09	-389.81	2,283.82	2,206.72	77.10	29.621		
8,900.00	7,799.00	8,979.30	7,799.00	40.79	41.37	-90.01	-1,791.19	-489.62	2,289.20	2,208.73	80.47	28.448		
9,000.00	7,799.00	9,079.16	7,799.00	42.67	42.69	-90.01	-1,794.28	-589.43	2,294.58	2,210.53	84.05	27.301		
9,100.00	7,799.00	9,179.01	7,799.00	44.63	44.34	-90.01	-1,797.38	-689.24	2,299.96	2,212.15	87.81	26.193		
9,200.00	7,799.00	9,278.87	7,799.00	46.66	46.18	-90.01	-1,800.47	-789.04	2,305.34	2,213.61	91.73	25.133		
9,300.00	7,799.00	9,378.72	7,799.00	48.76	48.12	-90.01	-1,803.56	-888.85	2,310.72	2,214.93	95.79	24.123		
9,400.00	7,799.00	9,478.58	7,799.00	50.92	50.14	-90.01	-1,806.66	-988.66	2,316.09	2,216.12	99.97	23.167		
9,500.00	7,799.00	9,578.43	7,799.00	53.12	52.22	-90.01	-1,809.75	-1,088.47	2,321.47	2,217.20	104.27	22.265		
9,600.00	7,799.00	9,678.29	7,799.00	55.37	54.36	-90.01	-1,812.85	-1,188.27	2,326.85	2,218.19	108.66	21.415		
9,700.00	7,799.00	9,778.15	7,799.00	57.65	56.55	-90.01	-1,815.94	-1,288.08	2,332.23	2,219.10	113.13	20.615		
9,800.00	7,799.00	9,878.00	7,799.00	59.97	58.77	-90.01	-1,819.03	-1,387.89	2,337.61	2,219.93	117.68	19.864		
9,900.00	7,799.00	9,977.86	7,799.00	62.32	61.04	-90.01	-1,822.13	-1,487.69	2,342.98	2,220.69	122.30	19.158		
10,000.00	7,799.00	10,077.71	7,799.00	64.69	63.33	-90.01	-1,825.22	-1,587.50	2,348.36	2,221.39	126.97	18.495		
10,100.00	7,799.00	10,177.57	7,799.00	67.09	65.66	-90.01	-1,828.32	-1,687.31	2,353.74	2,222.04	131.70	17.872		
10,200.00	7,799.00	10,277.42	7,799.00	69.51	68.01	-90.01	-1,831.41	-1,787.12	2,359.12	2,222.64	136.48	17.286		
10,300.00	7,799.00	10,377.28	7,799.00	71.95	70.38	-90.01	-1,834.50	-1,886.92	2,364.50	2,223.20	141.30	16.734		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 3AH - 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	7,799.00	10,477.13	7,799.00	74.41	72.77	-90.01	-1,837.60	-1,986.73	2,369.88	2,223.72	146.16	16.215		
10,500.00	7,799.00	10,576.99	7,799.00	76.89	75.19	-90.01	-1,840.69	-2,086.54	2,375.25	2,224.21	151.05	15.725		
10,600.00	7,799.00	10,676.84	7,799.00	79.37	77.61	-90.01	-1,843.79	-2,186.35	2,380.63	2,224.66	155.97	15.263		
10,700.00	7,799.00	10,776.70	7,799.00	81.87	80.06	-90.01	-1,846.88	-2,286.15	2,386.01	2,225.09	160.93	14.827		
10,800.00	7,799.00	10,876.55	7,799.00	84.39	82.52	-90.01	-1,849.98	-2,385.96	2,391.39	2,225.48	165.90	14.414		
10,900.00	7,799.00	10,976.41	7,799.00	86.91	84.99	-90.01	-1,853.07	-2,485.77	2,396.77	2,225.86	170.91	14.024		
11,000.00	7,799.00	11,076.26	7,799.00	89.44	87.47	-90.01	-1,856.16	-2,585.58	2,402.15	2,226.21	175.93	13.654		
11,100.00	7,799.00	11,176.12	7,799.00	91.99	89.97	-90.01	-1,859.26	-2,685.38	2,407.52	2,226.55	180.98	13.303		
11,200.00	7,799.00	11,275.97	7,799.00	94.54	92.47	-90.01	-1,862.35	-2,785.19	2,412.90	2,226.86	186.04	12.970		
11,300.00	7,799.00	11,375.83	7,799.00	97.10	94.99	-90.01	-1,865.45	-2,885.00	2,418.28	2,227.16	191.12	12.653		
11,400.00	7,799.00	11,475.68	7,799.00	99.66	97.51	-90.01	-1,868.54	-2,984.80	2,423.66	2,227.45	196.21	12.352		
11,500.00	7,799.00	11,575.54	7,799.00	102.24	100.04	-90.01	-1,871.63	-3,084.61	2,429.04	2,227.71	201.32	12.065		
11,600.00	7,799.00	11,675.40	7,799.00	104.82	102.58	-90.01	-1,874.73	-3,184.42	2,434.41	2,227.97	206.45	11.792		
11,700.00	7,799.00	11,775.25	7,799.00	107.40	105.13	-90.01	-1,877.82	-3,284.23	2,439.79	2,228.21	211.58	11.531		
11,800.00	7,799.00	11,875.11	7,799.00	109.99	107.68	-90.01	-1,880.92	-3,384.03	2,445.17	2,228.44	216.73	11.282		
11,900.00	7,799.00	11,974.96	7,799.00	112.58	110.24	-90.01	-1,884.01	-3,483.84	2,450.48	2,228.60	221.88	11.044		
12,000.00	7,799.00	12,074.93	7,799.00	115.17	112.80	-90.01	-1,887.11	-3,583.77	2,452.41	2,225.37	227.05	10.801		
12,100.00	7,799.00	12,174.87	7,799.00	117.74	115.37	-90.01	-1,890.20	-3,683.65	2,449.11	2,216.90	232.21	10.547		
12,200.00	7,799.00	12,274.49	7,799.00	120.27	117.94	-90.01	-1,893.29	-3,783.23	2,440.58	2,203.24	237.34	10.283		
12,300.00	7,799.00	12,373.53	7,799.00	122.76	120.49	-90.01	-1,896.36	-3,882.22	2,426.85	2,184.43	242.42	10.011		
12,400.00	7,799.00	12,471.72	7,799.00	125.19	123.03	-90.01	-1,899.40	-3,980.36	2,407.95	2,160.51	247.44	9.731		
12,500.00	7,799.00	12,568.78	7,799.00	127.57	125.55	-90.01	-1,902.41	-4,077.38	2,383.94	2,131.56	252.38	9.446		
12,600.00	7,799.00	12,664.60	7,799.00	129.88	128.03	-90.01	-1,905.38	-4,173.15	2,355.33	2,098.10	257.23	9.157		
12,700.00	7,799.00	12,760.16	7,799.00	132.19	130.51	-90.01	-1,908.34	-4,268.66	2,325.87	2,063.81	262.06	8.875		
12,800.00	7,799.00	12,855.72	7,799.00	134.50	133.00	-90.01	-1,911.30	-4,364.18	2,296.41	2,029.51	266.90	8.604		
12,900.00	7,799.00	12,951.28	7,799.00	136.83	135.48	-90.01	-1,914.26	-4,459.70	2,266.95	1,995.21	271.75	8.342		
13,000.00	7,799.00	13,046.85	7,799.00	139.16	137.97	-90.01	-1,917.22	-4,555.21	2,237.50	1,960.90	276.60	8.089		
13,100.00	7,799.00	13,142.41	7,799.00	141.50	140.47	-90.01	-1,920.18	-4,650.73	2,208.04	1,926.58	281.46	7.845		
13,200.00	7,799.00	13,237.97	7,799.00	143.84	142.96	-90.01	-1,923.15	-4,746.25	2,178.58	1,892.26	286.32	7.609		
13,300.00	7,799.00	13,333.54	7,799.00	146.19	145.46	-90.01	-1,926.11	-4,841.76	2,149.12	1,857.94	291.19	7.381		
13,400.00	7,799.00	13,429.10	7,799.00	148.55	147.96	-90.01	-1,929.07	-4,937.28	2,119.66	1,823.61	296.06	7.160		
13,500.00	7,799.00	13,524.66	7,799.00	150.92	150.46	-90.01	-1,932.03	-5,032.80	2,090.21	1,789.28	300.93	6.946		
13,600.00	7,799.00	13,620.22	7,799.00	153.29	152.97	-90.02	-1,934.99	-5,128.31	2,060.75	1,754.94	305.81	6.739		
13,700.00	7,799.00	13,715.79	7,799.00	155.66	155.47	-90.02	-1,937.95	-5,223.83	2,031.29	1,720.60	310.69	6.538		
13,800.00	7,799.00	13,811.35	7,799.00	158.04	157.98	-90.02	-1,940.91	-5,319.35	2,001.83	1,686.25	315.58	6.343		
13,900.00	7,799.00	13,906.91	7,799.00	160.43	160.49	-90.02	-1,943.87	-5,414.86	1,972.38	1,651.91	320.47	6.155		
14,000.00	7,799.00	14,002.47	7,799.00	162.82	163.00	-90.02	-1,946.83	-5,510.38	1,942.92	1,617.56	325.36	5.972		
14,100.00	7,799.00	14,101.96	7,799.00	165.21	165.62	-90.02	-1,949.80	-5,605.90	1,913.46	1,583.10	330.36	5.792		
14,200.00	7,799.00	14,193.60	7,799.00	167.61	168.03	-90.02	-1,952.76	-5,701.42	1,884.00	1,548.84	335.16	5.621		
14,300.00	7,799.00	14,289.16	7,799.00	170.02	170.54	-90.02	-1,955.72	-5,796.93	1,854.54	1,514.48	340.06	5.454		
14,400.00	7,799.00	14,384.73	7,799.00	172.42	173.06	-90.02	-1,958.68	-5,892.45	1,825.09	1,480.12	344.97	5.291		
14,500.00	7,799.00	14,480.29	7,799.00	174.84	175.58	-90.02	-1,961.64	-5,987.97	1,795.63	1,445.76	349.87	5.132		
14,600.00	7,799.00	14,576.41	7,799.00	177.28	178.11	-90.02	-1,964.62	-6,084.04	1,768.08	1,413.26	354.83	4.983		
14,700.00	7,799.00	14,673.83	7,799.00	179.78	180.68	-90.02	-1,967.64	-6,181.41	1,745.57	1,385.69	359.88	4.850		
14,800.00	7,799.00	14,772.30	7,799.00	182.34	183.28	-90.02	-1,970.69	-6,279.83	1,728.18	1,363.16	365.02	4.734		
14,900.00	7,799.00	14,871.54	7,799.00	184.94	185.90	-90.02	-1,973.76	-6,379.02	1,715.97	1,345.74	370.23	4.635		
15,000.00	7,799.00	14,971.28	7,799.00	187.56	188.54	-90.02	-1,976.85	-6,478.72	1,708.97	1,333.48	375.49	4.551		
15,083.81	7,799.00	15,055.06	7,799.00	189.78	190.75	-90.02	-1,979.45	-6,562.46	1,707.13	1,327.20	379.93	4.493		
15,100.00	7,799.00	15,071.25	7,799.00	190.21	191.18	-90.02	-1,979.95	-6,578.64	1,707.20	1,326.42	380.78	4.483		
15,200.00	7,799.00	15,171.21	7,799.00	192.85	193.82	-90.02	-1,983.05	-6,678.56	1,709.82	1,323.73	386.09	4.429		
15,300.00	7,799.00	15,271.17	7,799.00	195.50	196.47	-90.02	-1,986.15	-6,778.46	1,712.93	1,321.53	391.39	4.376		
15,400.00	7,799.00	15,371.12	7,799.00	198.16	199.11	-90.02	-1,989.24	-6,878.37	1,716.03	1,319.33	396.70	4.326		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 3AH - 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		
15,500.00	7,799.00	15,471.07	7,799.00	200.81	201.76	-90.02	-1,992.34	-6,978.27	1,719.14	1,317.13	402.01	4.276		
15,600.00	7,799.00	15,571.02	7,799.00	203.46	204.41	-90.02	-1,995.44	-7,078.18	1,722.25	1,314.93	407.32	4.228		
15,700.00	7,799.00	15,670.97	7,799.00	206.11	207.05	-90.02	-1,998.53	-7,178.08	1,725.35	1,312.72	412.63	4.181		
15,800.00	7,799.00	15,770.93	7,799.00	208.77	209.70	-90.02	-2,001.63	-7,277.98	1,728.46	1,310.52	417.94	4.136		
15,900.00	7,799.00	15,870.88	7,799.00	211.43	212.35	-90.02	-2,004.73	-7,377.89	1,731.57	1,308.31	423.26	4.091		
16,000.00	7,799.00	15,970.83	7,799.00	214.08	215.00	-90.02	-2,007.83	-7,477.79	1,734.67	1,306.10	428.58	4.048		
16,100.00	7,799.00	16,070.78	7,799.00	216.74	217.65	-90.02	-2,010.92	-7,577.69	1,737.78	1,303.89	433.89	4.005		
16,200.00	7,799.00	16,170.73	7,799.00	219.40	220.31	-90.02	-2,014.02	-7,677.60	1,740.89	1,301.68	439.21	3.964		
16,300.00	7,799.00	16,270.68	7,799.00	222.06	222.96	-90.02	-2,017.12	-7,777.50	1,743.99	1,299.46	444.53	3.923		
16,400.00	7,799.00	16,370.64	7,799.00	224.72	225.61	-90.02	-2,020.21	-7,877.41	1,747.10	1,297.25	449.85	3.884		
16,500.00	7,799.00	16,470.59	7,799.00	227.38	228.27	-90.02	-2,023.31	-7,977.31	1,750.21	1,295.03	455.18	3.845		
16,600.00	7,799.00	16,570.54	7,799.00	230.04	230.92	-90.02	-2,026.41	-8,077.21	1,753.31	1,292.81	460.50	3.807		
16,700.00	7,799.00	16,670.49	7,799.00	232.70	233.58	-90.02	-2,029.51	-8,177.12	1,756.42	1,290.59	465.83	3.771		
16,800.00	7,799.00	16,770.44	7,799.00	235.36	236.23	-90.02	-2,032.60	-8,277.02	1,759.53	1,288.38	471.15	3.735		
16,900.00	7,799.00	16,870.39	7,799.00	238.03	238.89	-90.02	-2,035.70	-8,376.92	1,762.63	1,286.15	476.48	3.699		
17,000.00	7,799.00	16,970.35	7,799.00	240.69	241.55	-90.02	-2,038.80	-8,476.83	1,765.74	1,283.93	481.81	3.665		
17,100.00	7,799.00	17,070.30	7,799.00	243.36	244.20	-90.02	-2,041.89	-8,576.73	1,768.85	1,281.71	487.14	3.631		
17,200.00	7,799.00	17,170.25	7,799.00	246.02	246.86	-90.02	-2,044.99	-8,676.63	1,771.95	1,279.49	492.47	3.598		
17,300.00	7,799.00	17,270.20	7,799.00	248.69	249.52	-90.02	-2,048.09	-8,776.54	1,775.06	1,277.26	497.80	3.566		
17,400.00	7,799.00	17,370.15	7,799.00	251.35	252.18	-90.02	-2,051.19	-8,876.44	1,778.17	1,275.04	503.13	3.534		
17,500.00	7,799.00	17,470.10	7,799.00	254.02	254.84	-90.02	-2,054.28	-8,976.35	1,781.27	1,272.81	508.46	3.503		
17,600.00	7,799.00	17,570.06	7,799.00	256.69	257.50	-90.02	-2,057.38	-9,076.25	1,784.38	1,270.58	513.80	3.473		
17,700.00	7,799.00	17,670.01	7,799.00	259.35	260.16	-90.02	-2,060.48	-9,176.15	1,787.49	1,268.36	519.13	3.443		
17,800.00	7,799.00	17,769.96	7,799.00	262.02	262.82	-90.02	-2,063.57	-9,276.06	1,790.59	1,266.13	524.46	3.414		
17,900.00	7,799.00	17,869.91	7,799.00	264.69	265.48	-90.02	-2,066.67	-9,375.96	1,793.70	1,263.90	529.80	3.386		
18,000.00	7,799.00	17,969.86	7,799.00	267.36	268.14	-90.02	-2,069.77	-9,475.86	1,796.81	1,261.67	535.14	3.358		
18,100.00	7,799.00	18,069.81	7,799.00	270.03	270.81	-90.02	-2,072.87	-9,575.77	1,799.91	1,259.44	540.47	3.330		
18,200.00	7,799.00	18,169.77	7,799.00	272.70	273.47	-90.02	-2,075.96	-9,675.67	1,803.02	1,257.21	545.81	3.303		
18,300.00	7,799.00	18,269.72	7,799.00	275.37	276.13	-90.02	-2,079.06	-9,775.58	1,806.13	1,254.98	551.15	3.277		
18,400.00	7,799.00	18,369.67	7,799.00	278.04	278.79	-90.02	-2,082.16	-9,875.48	1,809.23	1,252.74	556.49	3.251		
18,464.45	7,799.00	18,434.09	7,799.00	279.17	280.51	-90.02	-2,084.15	-9,939.87	1,811.24	1,251.90	559.33	3.238 SF		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 3BH - 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	0.94	-0.94	0.00	0.00	-156.14	-73.22	-32.38	80.06					
100.00	100.00	100.94	99.06	0.14	0.14	-156.14	-73.22	-32.38	80.06	79.78	0.28	290.269		
200.00	200.00	200.94	199.06	0.49	0.50	-156.14	-73.22	-32.38	80.06	79.07	0.99	80.643 CC, ES		
300.00	299.98	300.96	299.04	0.85	0.86	144.89	-73.22	-32.38	81.48	79.77	1.71	47.710		
400.00	399.84	401.10	398.90	1.21	1.22	146.85	-73.22	-32.38	85.81	83.39	2.43	35.332		
500.00	499.45	501.49	498.51	1.58	1.58	149.70	-73.22	-32.38	93.24	90.08	3.16	29.534		
600.00	598.75	597.81	597.81	1.97	1.92	152.95	-73.22	-32.38	103.63	99.76	3.88	26.741		
700.00	697.98	694.72	694.70	2.37	2.25	155.07	-74.71	-31.92	115.75	111.18	4.58	25.301		
800.00	797.22	791.17	791.03	2.77	2.58	155.61	-79.31	-30.49	130.00	124.73	5.26	24.699		
900.00	896.46	887.02	886.54	3.17	2.90	155.02	-86.94	-28.13	146.27	140.31	5.96	24.553		
1,000.00	995.69	982.04	980.91	3.58	3.25	153.67	-97.51	-24.84	164.60	157.94	6.66	24.724		
1,100.00	1,094.93	1,076.05	1,073.86	3.98	3.60	151.84	-110.91	-20.69	185.12	177.76	7.36	25.142		
1,200.00	1,194.16	1,168.86	1,165.13	4.39	3.98	149.76	-126.98	-15.70	207.96	199.89	8.07	25.765		
1,300.00	1,293.40	1,260.30	1,254.47	4.80	4.38	147.56	-145.57	-9.93	233.24	224.45	8.78	26.559		
1,400.00	1,392.64	1,350.23	1,341.68	5.21	4.79	145.36	-166.50	-3.44	261.04	251.56	9.48	27.525		
1,500.00	1,491.87	1,438.50	1,426.58	5.62	5.23	143.22	-189.58	3.73	291.43	281.25	10.18	28.620		
1,600.00	1,591.11	1,525.00	1,509.01	6.03	5.69	141.18	-214.61	11.49	324.44	313.56	10.87	29.842		
1,700.00	1,690.34	1,609.63	1,588.86	6.44	6.18	139.27	-241.38	19.80	360.04	348.49	11.55	31.179		
1,800.00	1,789.58	1,703.11	1,670.41	6.85	6.75	137.43	-271.03	29.00	397.96	385.67	12.29	32.372		
1,900.00	1,888.82	1,788.50	1,755.91	7.26	7.29	135.80	-302.46	38.75	436.51	423.47	13.04	33.479		
2,000.00	1,988.05	1,880.11	1,841.41	7.67	7.88	134.43	-333.88	48.50	475.31	461.49	13.82	34.402		
2,100.00	2,087.29	1,971.73	1,926.91	8.08	8.48	133.26	-365.31	58.25	514.31	499.71	14.60	35.233		
2,200.00	2,186.52	2,063.34	2,012.41	8.49	9.09	132.26	-396.73	68.01	553.46	538.08	15.38	35.983		
2,300.00	2,285.76	2,154.95	2,097.90	8.90	9.71	131.39	-428.16	77.76	592.74	576.58	16.17	36.665		
2,400.00	2,385.00	2,246.56	2,183.40	9.31	10.33	130.63	-459.58	87.51	632.13	615.17	16.95	37.285		
2,500.00	2,484.23	2,338.17	2,268.90	9.72	10.96	129.96	-491.01	97.26	671.59	653.85	17.74	37.851		
2,600.00	2,583.47	2,429.78	2,354.40	10.13	11.58	129.36	-522.43	107.01	711.13	692.60	18.53	38.371		
2,700.00	2,682.70	2,521.39	2,439.90	10.54	12.22	128.82	-553.85	116.76	750.72	731.40	19.32	38.848		
2,800.00	2,781.94	2,613.00	2,525.40	10.95	12.85	128.34	-585.28	126.51	790.37	770.25	20.12	39.289		
2,900.00	2,881.18	2,704.61	2,610.89	11.36	13.49	127.90	-616.70	136.26	830.06	809.15	20.91	39.696		
3,000.00	2,980.41	2,803.78	2,696.39	11.77	14.18	127.51	-648.13	146.02	869.79	848.04	21.74	40.006		
3,100.00	3,079.65	2,887.83	2,781.89	12.19	14.77	127.14	-679.55	155.77	909.54	887.04	22.50	40.424		
3,200.00	3,178.88	2,979.45	2,867.39	12.60	15.41	126.81	-710.98	165.52	949.33	926.03	23.30	40.751		
3,300.00	3,278.12	3,071.06	2,952.89	13.01	16.06	126.51	-742.40	175.27	989.14	965.05	24.09	41.057		
3,400.00	3,377.36	3,162.67	3,038.39	13.42	16.70	126.22	-773.83	185.02	1,028.97	1,004.08	24.89	41.342		
3,500.00	3,476.59	3,254.28	3,123.88	13.83	17.35	125.96	-805.25	194.77	1,068.83	1,043.14	25.69	41.610		
3,600.00	3,575.83	3,345.89	3,209.38	14.24	18.00	125.72	-836.68	204.52	1,108.70	1,082.21	26.48	41.862		
3,700.00	3,675.06	3,437.50	3,294.88	14.65	18.64	125.50	-868.10	214.27	1,148.58	1,121.30	27.28	42.098		
3,800.00	3,774.30	3,529.11	3,380.38	15.06	19.29	125.29	-899.53	224.03	1,188.48	1,160.40	28.08	42.321		
3,900.00	3,873.53	3,620.72	3,465.88	15.47	19.94	125.09	-930.95	233.78	1,228.39	1,199.51	28.88	42.532		
4,000.00	3,972.77	3,712.33	3,551.37	15.89	20.59	124.90	-962.38	243.53	1,268.32	1,238.63	29.68	42.731		
4,100.00	4,072.01	3,803.94	3,636.87	16.30	21.24	124.73	-993.80	253.28	1,308.25	1,277.77	30.48	42.919		
4,200.00	4,171.24	3,904.45	3,722.37	16.71	21.96	124.57	-1,025.23	263.03	1,348.19	1,316.87	31.33	43.039		
4,300.00	4,270.48	3,987.17	3,807.87	17.12	22.55	124.42	-1,056.65	272.78	1,388.14	1,356.06	32.08	43.267		
4,400.00	4,369.71	4,078.78	3,893.37	17.53	23.20	124.27	-1,088.08	282.53	1,428.10	1,395.22	32.88	43.428		
4,500.00	4,468.95	4,170.39	3,978.87	17.94	23.85	124.13	-1,119.50	292.28	1,468.07	1,434.38	33.69	43.581		
4,600.00	4,568.19	4,262.00	4,064.36	18.35	24.50	124.00	-1,150.93	302.04	1,508.04	1,473.56	34.49	43.726		
4,700.00	4,667.42	4,353.61	4,149.86	18.76	25.16	123.88	-1,182.35	311.79	1,548.02	1,512.73	35.29	43.865		
4,800.00	4,766.66	4,445.22	4,235.36	19.18	25.81	123.76	-1,213.78	321.54	1,588.01	1,551.92	36.09	43.998		
4,900.00	4,865.89	4,536.83	4,320.86	19.59	26.46	123.65	-1,245.20	331.29	1,628.00	1,591.10	36.90	44.124		
5,000.00	4,965.13	4,628.44	4,406.36	20.00	27.12	123.55	-1,276.62	341.04	1,668.00	1,630.30	37.70	44.245		
5,100.00	5,064.37	4,720.05	4,491.86	20.41	27.77	123.45	-1,308.05	350.79	1,708.00	1,669.49	38.50	44.361		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 3BH - 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	5,163.60	4,811.66	4,577.35	20.82	28.43	123.35	-1,339.47	360.54	1,748.00	1,708.69	39.31	44.472		
5,300.00	5,262.84	4,903.28	4,662.85	21.23	29.08	123.26	-1,370.90	370.29	1,788.01	1,747.90	40.11	44.578		
5,400.00	5,362.07	5,005.11	4,748.35	21.64	29.81	123.17	-1,402.32	380.05	1,828.02	1,787.06	40.96	44.626		
5,500.00	5,461.31	5,086.50	4,833.85	22.05	30.39	123.09	-1,433.75	389.80	1,868.04	1,826.32	41.72	44.777		
5,600.00	5,560.55	5,178.11	4,919.35	22.47	31.05	123.01	-1,465.17	399.55	1,908.05	1,865.53	42.52	44.871		
5,700.00	5,659.78	5,269.72	5,004.85	22.88	31.70	122.93	-1,496.60	409.30	1,948.08	1,904.75	43.33	44.961		
5,800.00	5,759.02	5,361.33	5,090.34	23.29	32.36	122.85	-1,528.02	419.05	1,988.10	1,943.97	44.13	45.047		
5,900.00	5,858.25	5,452.94	5,175.84	23.70	33.01	122.78	-1,559.45	428.80	2,028.13	1,983.19	44.94	45.130		
6,000.00	5,957.49	5,544.55	5,261.34	24.11	33.67	122.71	-1,590.87	438.55	2,068.16	2,022.41	45.75	45.211		
6,100.00	6,056.73	5,636.16	5,346.84	24.52	34.33	122.65	-1,622.30	448.30	2,108.19	2,061.64	46.55	45.288		
6,200.00	6,155.96	5,727.77	5,432.34	24.93	34.98	122.58	-1,653.72	458.06	2,148.23	2,100.87	47.36	45.362		
6,300.00	6,255.20	5,819.38	5,517.84	25.34	35.64	122.52	-1,685.15	467.81	2,188.26	2,140.10	48.16	45.434		
6,400.00	6,354.43	5,911.00	5,603.33	25.76	36.29	122.46	-1,716.57	477.56	2,228.30	2,179.33	48.97	45.503		
6,500.00	6,453.67	6,002.61	5,688.83	26.17	36.95	122.41	-1,748.00	487.31	2,268.34	2,218.56	49.78	45.570		
6,600.00	6,552.91	6,105.78	5,774.33	26.58	37.69	122.35	-1,779.42	497.06	2,308.38	2,257.74	50.64	45.584		
6,700.00	6,652.14	6,185.83	5,859.83	26.99	38.26	122.30	-1,810.85	506.81	2,348.43	2,297.04	51.39	45.696		
6,800.00	6,751.38	6,277.44	5,945.33	27.40	38.92	122.25	-1,842.27	516.56	2,388.47	2,336.27	52.20	45.756		
6,900.00	6,850.61	6,369.05	6,030.83	27.81	39.58	122.20	-1,873.70	526.31	2,428.52	2,375.51	53.01	45.814		
7,000.00	6,949.85	6,460.66	6,116.32	28.22	40.23	122.15	-1,905.12	536.07	2,468.57	2,414.75	53.82	45.870		
7,100.00	7,049.09	6,552.27	6,201.82	28.64	40.89	122.10	-1,936.55	545.82	2,508.62	2,454.00	54.63	45.924		
7,200.00	7,148.32	6,643.88	6,287.32	29.05	41.55	122.06	-1,967.97	555.57	2,548.67	2,493.24	55.43	45.977		
7,300.00	7,247.89	6,735.14	6,372.49	29.42	42.20	-147.48	-1,999.27	565.28	2,588.61	2,532.42	56.18	46.076		
7,400.00	7,346.79	6,823.85	6,455.28	29.67	42.84	-100.08	-2,029.70	574.72	2,627.67	2,570.91	56.75	46.299		
7,500.00	7,442.07	6,907.30	6,533.16	29.83	43.44	-89.46	-2,058.33	583.61	2,665.12	2,607.95	57.17	46.617		
7,600.00	7,530.81	6,982.96	6,603.77	29.92	43.98	-83.92	-2,084.28	591.66	2,700.51	2,643.07	57.45	47.009		
7,700.00	7,610.33	7,048.53	6,664.97	29.97	44.45	-80.12	-2,106.78	598.64	2,733.61	2,675.99	57.62	47.445		
7,800.00	7,678.21	7,102.03	6,714.89	30.00	44.83	-77.17	-2,125.12	604.33	2,764.27	2,706.54	57.73	47.884		
7,900.00	7,732.39	7,141.81	6,752.02	30.08	45.12	-74.66	-2,138.77	608.57	2,792.41	2,734.57	57.84	48.276		
8,000.00	7,771.23	7,166.68	6,775.24	30.28	45.30	-72.40	-2,147.30	611.22	2,817.85	2,759.84	58.01	48.574		
8,100.00	7,793.53	7,175.88	6,783.82	30.66	45.36	-70.30	-2,150.46	612.20	2,840.31	2,782.04	58.27	48.746		
8,200.00	7,799.00	7,169.47	6,777.84	31.25	45.32	-68.71	-2,148.26	611.51	2,859.47	2,800.86	58.61	48.786		
8,300.00	7,799.00	7,158.05	6,767.18	32.08	45.24	-68.48	-2,144.34	610.30	2,879.74	2,820.61	59.13	48.705		
8,400.00	7,799.00	7,146.62	6,756.51	33.13	45.15	-68.24	-2,140.42	609.08	2,903.26	2,843.44	59.82	48.532		
8,500.00	7,799.00	7,135.20	6,745.85	34.37	45.07	-68.01	-2,136.50	607.87	2,929.96	2,869.29	60.67	48.290		
8,600.00	7,799.00	7,123.77	6,735.19	35.78	44.99	-67.78	-2,132.58	606.65	2,959.76	2,898.10	61.66	48.003		
8,700.00	7,799.00	7,112.35	6,724.53	37.33	44.91	-67.55	-2,128.67	605.43	2,992.56	2,929.82	62.75	47.692		
8,800.00	7,799.00	7,100.93	6,713.87	39.00	44.83	-67.32	-2,124.75	604.22	3,028.27	2,964.35	63.92	47.375		
8,900.00	7,799.00	9,206.80	7,799.00	40.79	51.02	-90.02	-2,543.58	-511.52	3,040.89	2,958.54	82.34	36.929		
9,000.00	7,799.00	9,306.87	7,799.00	42.67	51.28	-90.02	-2,545.19	-611.43	3,044.78	2,958.89	85.89	35.451		
9,100.00	7,799.00	9,406.95	7,799.00	44.63	51.70	-90.02	-2,546.80	-711.34	3,048.67	2,959.06	89.61	34.020		
9,200.00	7,799.00	9,507.03	7,799.00	46.66	52.36	-90.02	-2,548.41	-811.25	3,052.57	2,959.07	93.50	32.648		
9,300.00	7,799.00	9,607.10	7,799.00	48.76	53.31	-90.02	-2,550.02	-911.17	3,056.46	2,958.93	97.53	31.339		
9,400.00	7,799.00	9,707.18	7,799.00	50.92	54.58	-90.02	-2,551.63	-1,011.08	3,060.35	2,958.67	101.68	30.097		
9,500.00	7,799.00	9,792.75	7,799.00	53.12	55.89	-90.02	-2,553.24	-1,110.99	3,064.25	2,958.60	105.64	29.005		
9,600.00	7,799.00	9,907.33	7,799.00	55.37	57.88	-90.02	-2,554.85	-1,210.90	3,068.14	2,957.83	110.31	27.814		
9,700.00	7,799.00	10,007.40	7,799.00	57.65	59.79	-90.02	-2,556.47	-1,310.81	3,072.03	2,957.28	114.76	26.770		
9,800.00	7,799.00	10,107.48	7,799.00	59.97	61.80	-90.02	-2,558.08	-1,410.72	3,075.93	2,956.64	119.28	25.787		
9,900.00	7,799.00	10,207.56	7,799.00	62.32	63.90	-90.02	-2,559.69	-1,510.63	3,079.82	2,955.94	123.88	24.862		
10,000.00	7,799.00	10,307.63	7,799.00	64.69	66.06	-90.02	-2,561.30	-1,610.54	3,083.71	2,955.18	128.53	23.991		
10,100.00	7,799.00	10,407.71	7,799.00	67.09	68.28	-90.02	-2,562.91	-1,710.45	3,087.61	2,954.36	133.24	23.173		
10,200.00	7,799.00	10,492.22	7,799.00	69.51	70.18	-90.02	-2,564.52	-1,810.37	3,091.50	2,953.86	137.64	22.461		
10,300.00	7,799.00	10,607.86	7,799.00	71.95	72.83	-90.02	-2,566.13	-1,910.28	3,095.39	2,952.59	142.81	21.675		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 3BH - 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	7,799.00	10,707.94	7,799.00	74.41	75.15	-90.02	-2,567.74	-2,010.19	3,099.29	2,951.64	147.65	20.991		
10,500.00	7,799.00	10,808.01	7,799.00	76.89	77.51	-90.02	-2,569.36	-2,110.10	3,103.18	2,950.65	152.53	20.345		
10,600.00	7,799.00	10,908.09	7,799.00	79.37	79.88	-90.02	-2,570.97	-2,210.01	3,107.07	2,949.63	157.44	19.735		
10,700.00	7,799.00	11,008.16	7,799.00	81.87	82.28	-90.02	-2,572.58	-2,309.92	3,110.97	2,948.58	162.38	19.158		
10,800.00	7,799.00	11,091.76	7,799.00	84.39	84.29	-90.02	-2,574.19	-2,409.83	3,114.86	2,947.91	166.95	18.658		
10,900.00	7,799.00	11,208.31	7,799.00	86.91	87.13	-90.02	-2,575.80	-2,509.74	3,118.75	2,946.41	172.35	18.096		
11,000.00	7,799.00	11,308.39	7,799.00	89.44	89.58	-90.02	-2,577.41	-2,609.66	3,122.65	2,945.28	177.37	17.606		
11,100.00	7,799.00	11,408.47	7,799.00	91.99	92.04	-90.02	-2,579.02	-2,709.57	3,126.54	2,944.14	182.40	17.141		
11,200.00	7,799.00	11,508.54	7,799.00	94.54	94.51	-90.02	-2,580.64	-2,809.48	3,130.43	2,942.97	187.46	16.699		
11,300.00	7,799.00	11,608.62	7,799.00	97.10	97.00	-90.02	-2,582.25	-2,909.39	3,134.33	2,941.79	192.54	16.279		
11,400.00	7,799.00	11,691.31	7,799.00	99.66	99.06	-90.02	-2,583.86	-3,009.30	3,138.22	2,941.03	197.19	15.915		
11,500.00	7,799.00	11,791.23	7,799.00	102.24	101.56	-90.02	-2,585.47	-3,109.21	3,142.11	2,939.83	202.29	15.533		
11,600.00	7,799.00	11,908.85	7,799.00	104.82	104.52	-90.02	-2,587.08	-3,209.12	3,146.01	2,938.16	207.85	15.136		
11,700.00	7,799.00	12,008.92	7,799.00	107.40	107.05	-90.02	-2,588.69	-3,309.03	3,149.90	2,936.92	212.99	14.789		
11,800.00	7,799.00	12,091.00	7,799.00	109.99	109.12	-90.02	-2,590.30	-3,408.94	3,153.79	2,936.12	217.67	14.489		
11,900.00	7,799.00	12,209.07	7,799.00	112.58	112.12	-90.02	-2,591.91	-3,508.86	3,157.62	2,934.34	223.29	14.142		
12,000.00	7,799.00	12,309.08	7,799.00	115.17	114.66	-90.02	-2,593.53	-3,608.83	3,158.07	2,929.62	228.44	13.824		
12,100.00	7,799.00	12,409.21	7,799.00	117.74	117.22	-90.02	-2,595.14	-3,708.69	3,153.28	2,919.68	233.60	13.499		
12,200.00	7,799.00	12,490.28	7,799.00	120.27	119.29	-90.02	-2,596.74	-3,808.17	3,143.27	2,905.03	238.24	13.194		
12,300.00	7,799.00	12,589.10	7,799.00	122.76	121.82	-90.02	-2,598.33	-3,906.98	3,128.06	2,884.76	243.31	12.856		
12,400.00	7,799.00	12,687.00	7,799.00	125.19	124.34	-90.02	-2,599.91	-4,004.86	3,107.71	2,859.40	248.31	12.516		
12,500.00	7,799.00	12,783.69	7,799.00	127.57	126.82	-90.02	-2,601.47	-4,101.55	3,082.26	2,829.04	253.22	12.172		
12,600.00	7,799.00	12,879.07	7,799.00	129.88	129.28	-90.02	-2,603.01	-4,196.91	3,052.22	2,794.19	258.04	11.829		
12,700.00	7,799.00	12,974.19	7,799.00	132.19	131.74	-90.02	-2,604.54	-4,292.01	3,021.35	2,758.51	262.84	11.495		
12,800.00	7,799.00	13,069.30	7,799.00	134.50	134.19	-90.02	-2,606.08	-4,387.11	2,990.47	2,722.82	267.65	11.173		
12,900.00	7,799.00	13,164.41	7,799.00	136.83	136.66	-90.02	-2,607.61	-4,482.22	2,959.60	2,687.13	272.47	10.862		
13,000.00	7,799.00	13,259.53	7,799.00	139.16	139.12	-90.02	-2,609.15	-4,577.32	2,928.72	2,651.43	277.30	10.562		
13,100.00	7,799.00	13,354.64	7,799.00	141.50	141.59	-90.02	-2,610.68	-4,672.42	2,897.85	2,615.72	282.13	10.271		
13,200.00	7,799.00	13,449.76	7,799.00	143.84	144.06	-90.02	-2,612.21	-4,767.52	2,866.97	2,580.01	286.96	9.991		
13,300.00	7,799.00	13,544.87	7,799.00	146.19	146.54	-90.02	-2,613.75	-4,862.62	2,836.10	2,544.30	291.80	9.719		
13,400.00	7,799.00	13,639.99	7,799.00	148.55	149.01	-90.02	-2,615.28	-4,957.73	2,805.22	2,508.58	296.64	9.457		
13,500.00	7,799.00	13,735.10	7,799.00	150.92	151.49	-90.02	-2,616.81	-5,052.83	2,774.35	2,472.86	301.49	9.202		
13,600.00	7,799.00	13,830.21	7,799.00	153.29	153.97	-90.02	-2,618.35	-5,147.93	2,743.47	2,437.13	306.35	8.956		
13,700.00	7,799.00	13,925.33	7,799.00	155.66	156.46	-90.02	-2,619.88	-5,243.03	2,712.60	2,401.40	311.20	8.717		
13,800.00	7,799.00	14,020.44	7,799.00	158.04	158.94	-90.02	-2,621.41	-5,338.13	2,681.72	2,365.66	316.06	8.485		
13,900.00	7,799.00	14,115.56	7,799.00	160.43	161.43	-90.02	-2,622.95	-5,433.24	2,650.85	2,329.92	320.93	8.260		
14,000.00	7,799.00	14,210.67	7,799.00	162.82	163.92	-90.02	-2,624.48	-5,528.34	2,619.97	2,294.18	325.79	8.042		
14,100.00	7,799.00	14,305.79	7,799.00	165.21	166.42	-90.02	-2,626.02	-5,623.44	2,589.10	2,258.43	330.66	7.830		
14,200.00	7,799.00	14,400.90	7,799.00	167.61	168.91	-90.02	-2,627.55	-5,718.54	2,558.22	2,222.68	335.54	7.624		
14,300.00	7,799.00	14,503.99	7,799.00	170.02	171.62	-90.02	-2,629.08	-5,813.64	2,527.35	2,186.72	340.63	7.420		
14,400.00	7,799.00	14,608.87	7,799.00	172.42	174.37	-90.02	-2,630.62	-5,908.75	2,496.47	2,150.71	345.76	7.220		
14,500.00	7,799.00	14,686.24	7,799.00	174.84	176.40	-90.02	-2,632.15	-6,003.85	2,465.60	2,115.42	350.18	7.041		
14,600.00	7,799.00	14,781.94	7,799.00	177.28	178.92	-90.02	-2,633.69	-6,099.54	2,436.63	2,081.52	355.11	6.862		
14,700.00	7,799.00	14,879.02	7,799.00	179.78	181.48	-90.02	-2,635.26	-6,196.60	2,412.67	2,052.52	360.14	6.699		
14,800.00	7,799.00	14,977.22	7,799.00	182.34	184.06	-90.02	-2,636.84	-6,294.78	2,393.82	2,028.55	365.27	6.554		
14,900.00	7,799.00	15,076.26	7,799.00	184.94	186.67	-90.02	-2,638.44	-6,393.82	2,380.13	2,009.66	370.47	6.425		
15,000.00	7,799.00	15,175.89	7,799.00	187.56	189.30	-90.02	-2,640.05	-6,493.43	2,371.65	1,995.93	375.72	6.312		
15,100.00	7,799.00	15,275.83	7,799.00	190.21	191.93	-90.02	-2,641.66	-6,593.35	2,368.40	1,987.39	381.01	6.216		
15,128.27	7,799.00	15,304.09	7,799.00	190.95	192.68	-90.02	-2,642.11	-6,621.62	2,368.31	1,985.80	382.51	6.192		
15,200.00	7,799.00	15,375.82	7,799.00	192.85	194.57	-90.02	-2,643.27	-6,693.33	2,369.53	1,983.22	386.31	6.134		
15,300.00	7,799.00	15,475.80	7,799.00	195.50	197.21	-90.02	-2,644.88	-6,793.31	2,371.15	1,979.53	391.62	6.055		
15,400.00	7,799.00	15,575.79	7,799.00	198.16	199.85	-90.02	-2,646.50	-6,893.28	2,372.77	1,975.84	396.93	5.978		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 6-T5S-R64W - ALAMOS 5-64 6-1 3BH - 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	7,799.00	15,675.78	7,799.00	200.81	202.49	-90.02	-2,648.11	-6,993.25	2,374.39	1,972.16	402.24	5.903	
15,600.00	7,799.00	15,775.77	7,799.00	203.46	205.14	-90.02	-2,649.72	-7,093.23	2,376.01	1,968.46	407.55	5.830	
15,700.00	7,799.00	15,875.75	7,799.00	206.11	207.78	-90.02	-2,651.33	-7,193.20	2,377.63	1,964.77	412.86	5.759	
15,800.00	7,799.00	15,975.74	7,799.00	208.77	210.43	-90.02	-2,652.94	-7,293.18	2,379.25	1,961.08	418.17	5.690	
15,900.00	7,799.00	16,075.73	7,799.00	211.43	213.07	-90.02	-2,654.56	-7,393.15	2,380.87	1,957.38	423.49	5.622	
16,000.00	7,799.00	16,175.71	7,799.00	214.08	215.72	-90.02	-2,656.17	-7,493.12	2,382.49	1,953.68	428.81	5.556	
16,100.00	7,799.00	16,275.70	7,799.00	216.74	218.37	-90.02	-2,657.78	-7,593.10	2,384.11	1,949.99	434.13	5.492	
16,200.00	7,799.00	16,375.69	7,799.00	219.40	221.02	-90.02	-2,659.39	-7,693.07	2,385.73	1,946.28	439.45	5.429	
16,300.00	7,799.00	16,475.67	7,799.00	222.06	223.67	-90.02	-2,661.01	-7,793.04	2,387.36	1,942.58	444.77	5.368	
16,400.00	7,799.00	16,575.66	7,799.00	224.72	226.32	-90.02	-2,662.62	-7,893.02	2,388.98	1,938.88	450.10	5.308	
16,500.00	7,799.00	16,675.65	7,799.00	227.38	228.97	-90.02	-2,664.23	-7,992.99	2,390.60	1,935.18	455.42	5.249	
16,600.00	7,799.00	16,775.63	7,799.00	230.04	231.62	-90.02	-2,665.84	-8,092.97	2,392.22	1,931.47	460.75	5.192	
16,700.00	7,799.00	16,875.62	7,799.00	232.70	234.28	-90.02	-2,667.45	-8,192.94	2,393.84	1,927.76	466.07	5.136	
16,800.00	7,799.00	16,975.61	7,799.00	235.36	236.93	-90.02	-2,669.07	-8,292.91	2,395.46	1,924.06	471.40	5.082	
16,900.00	7,799.00	17,075.59	7,799.00	238.03	239.58	-90.02	-2,670.68	-8,392.89	2,397.08	1,920.35	476.73	5.028	
17,000.00	7,799.00	17,175.58	7,799.00	240.69	242.24	-90.02	-2,672.29	-8,492.86	2,398.70	1,916.64	482.06	4.976	
17,100.00	7,799.00	17,275.57	7,799.00	243.36	244.90	-90.02	-2,673.90	-8,592.84	2,400.32	1,912.93	487.39	4.925	
17,200.00	7,799.00	17,375.56	7,799.00	246.02	247.55	-90.02	-2,675.52	-8,692.81	2,401.94	1,909.21	492.73	4.875	
17,300.00	7,799.00	17,475.54	7,799.00	248.69	250.21	-90.02	-2,677.13	-8,792.78	2,403.56	1,905.50	498.06	4.826	
17,400.00	7,799.00	17,575.53	7,799.00	251.35	252.87	-90.02	-2,678.74	-8,892.76	2,405.18	1,901.79	503.39	4.778	
17,500.00	7,799.00	17,675.52	7,799.00	254.02	255.53	-90.02	-2,680.35	-8,992.73	2,406.80	1,898.07	508.73	4.731	
17,600.00	7,799.00	17,775.50	7,799.00	256.69	258.19	-90.02	-2,681.97	-9,092.70	2,408.42	1,894.36	514.07	4.685	
17,700.00	7,799.00	17,875.49	7,799.00	259.35	260.85	-90.02	-2,683.58	-9,192.68	2,410.04	1,890.64	519.40	4.640	
17,800.00	7,799.00	17,975.48	7,799.00	262.02	263.51	-90.02	-2,685.19	-9,292.65	2,411.66	1,886.92	524.74	4.596	
17,900.00	7,799.00	18,075.46	7,799.00	264.69	266.17	-90.02	-2,686.80	-9,392.63	2,413.28	1,883.20	530.08	4.553	
18,000.00	7,799.00	18,175.45	7,799.00	267.36	268.83	-90.02	-2,688.41	-9,492.60	2,414.90	1,879.48	535.42	4.510	
18,100.00	7,799.00	18,275.44	7,799.00	270.03	271.49	-90.02	-2,690.03	-9,592.57	2,416.53	1,875.77	540.76	4.469	
18,200.00	7,799.00	18,375.42	7,799.00	272.70	274.15	-90.02	-2,691.64	-9,692.55	2,418.15	1,872.04	546.10	4.428	
18,300.00	7,799.00	18,475.41	7,799.00	275.37	276.82	-90.02	-2,693.25	-9,792.52	2,419.77	1,868.32	551.44	4.388	
18,400.00	7,799.00	18,575.40	7,799.00	278.04	279.48	-90.02	-2,694.86	-9,892.50	2,421.39	1,864.60	556.79	4.349	
18,464.45	7,799.00	18,639.84	7,799.00	279.17	281.20	-90.02	-2,695.90	-9,956.93	2,422.43	1,862.80	559.63	4.329 SF	

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 4AH - 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	1.21	-1.21	0.00	0.00	-156.23	-91.43	-40.27	99.90					
100.00	100.00	101.21	98.79	0.14	0.14	-156.23	-91.43	-40.27	99.90	99.63	0.28	360.958		
200.00	200.00	201.21	198.79	0.49	0.50	-156.23	-91.43	-40.27	99.90	98.91	0.99	100.536 CC, ES		
300.00	299.98	301.23	298.77	0.85	0.86	144.66	-91.43	-40.27	101.32	99.61	1.71	59.295		
400.00	399.84	398.63	398.63	1.21	1.21	146.25	-91.43	-40.27	105.64	103.22	2.42	43.652		
500.00	499.45	495.39	495.37	1.58	1.54	148.02	-92.98	-39.91	114.22	111.10	3.13	36.543		
600.00	598.75	591.36	591.22	1.97	1.86	149.25	-97.65	-38.82	128.06	124.23	3.83	33.447		
700.00	697.98	686.61	686.13	2.37	2.20	149.52	-105.38	-37.02	144.80	140.27	4.53	31.997		
800.00	797.22	780.99	779.87	2.77	2.55	148.97	-116.07	-34.53	163.95	158.72	5.23	31.359		
900.00	896.46	874.32	872.15	3.17	2.91	147.89	-129.59	-31.38	185.52	179.59	5.93	31.260		
1,000.00	995.69	966.41	962.73	3.58	3.30	146.50	-145.79	-27.61	209.56	202.92	6.64	31.546		
1,100.00	1,094.93	1,057.12	1,051.37	3.98	3.71	144.95	-164.51	-23.25	236.13	228.78	7.35	32.122		
1,200.00	1,194.16	1,146.28	1,137.87	4.39	4.14	143.33	-185.57	-18.35	265.27	257.21	8.06	32.931		
1,300.00	1,293.40	1,233.78	1,222.06	4.80	4.59	141.72	-208.77	-12.95	296.99	288.23	8.75	33.937		
1,400.00	1,392.64	1,319.50	1,303.79	5.21	5.06	140.17	-233.92	-7.10	331.28	321.84	9.44	35.094		
1,500.00	1,491.87	1,403.34	1,382.95	5.62	5.56	138.68	-260.81	-0.84	368.13	358.02	10.12	36.388		
1,600.00	1,591.11	1,485.23	1,459.46	6.03	6.08	137.29	-289.25	5.78	407.50	396.72	10.78	37.793		
1,700.00	1,690.34	1,565.10	1,533.25	6.44	6.62	135.99	-319.02	12.71	449.32	437.89	11.43	39.297		
1,800.00	1,789.58	1,642.91	1,604.29	6.85	7.18	134.79	-349.94	19.91	493.54	481.47	12.07	40.892		
1,900.00	1,888.82	1,721.13	1,674.82	7.26	7.76	133.64	-382.86	27.57	540.04	527.32	12.72	42.469		
2,000.00	1,988.05	1,808.65	1,753.43	7.67	8.43	132.52	-420.33	36.30	587.40	573.92	13.48	43.571		
2,100.00	2,087.29	1,903.82	1,832.05	8.08	9.18	131.56	-457.81	45.02	634.91	620.62	14.29	44.431		
2,200.00	2,186.52	1,983.71	1,910.67	8.49	9.81	130.73	-495.28	53.74	682.53	667.51	15.02	45.432		
2,300.00	2,285.76	2,071.23	1,989.28	8.90	10.51	130.01	-532.75	62.47	730.26	714.46	15.80	46.224		
2,400.00	2,385.00	2,158.76	2,067.90	9.31	11.22	129.38	-570.23	71.19	778.06	761.49	16.58	46.939		
2,500.00	2,484.23	2,246.29	2,146.52	9.72	11.93	128.82	-607.70	79.92	825.93	808.58	17.36	47.589		
2,600.00	2,583.47	2,333.82	2,225.13	10.13	12.64	128.32	-645.18	88.64	873.86	855.72	18.14	48.181		
2,700.00	2,682.70	2,421.34	2,303.75	10.54	13.36	127.87	-682.65	97.36	921.82	902.91	18.92	48.723		
2,800.00	2,781.94	2,508.87	2,382.37	10.95	14.07	127.47	-720.13	106.09	969.83	950.13	19.70	49.221		
2,900.00	2,881.18	2,603.60	2,460.99	11.36	14.85	127.11	-757.60	114.81	1,017.87	997.35	20.53	49.588		
3,000.00	2,980.41	2,683.93	2,539.60	11.77	15.52	126.77	-795.07	123.53	1,065.95	1,044.67	21.28	50.100		
3,100.00	3,079.65	2,771.45	2,618.22	12.19	16.24	126.47	-832.55	132.26	1,114.04	1,091.98	22.06	50.492		
3,200.00	3,178.88	2,858.98	2,696.84	12.60	16.96	126.19	-870.02	140.98	1,162.16	1,139.31	22.85	50.855		
3,300.00	3,278.12	2,946.51	2,775.45	13.01	17.69	125.94	-907.50	149.70	1,210.30	1,186.66	23.64	51.193		
3,400.00	3,377.36	3,034.04	2,854.07	13.42	18.42	125.70	-944.97	158.43	1,258.45	1,234.02	24.43	51.508		
3,500.00	3,476.59	3,121.56	2,932.69	13.83	19.14	125.48	-982.45	167.15	1,306.62	1,281.40	25.22	51.802		
3,600.00	3,575.83	3,209.09	3,011.30	14.24	19.87	125.28	-1,019.92	175.88	1,354.81	1,328.79	26.01	52.078		
3,700.00	3,675.06	3,296.62	3,089.92	14.65	20.60	125.09	-1,057.39	184.60	1,403.00	1,376.20	26.81	52.337		
3,800.00	3,774.30	3,384.15	3,168.54	15.06	21.33	124.91	-1,094.87	193.32	1,451.21	1,423.61	27.60	52.579		
3,900.00	3,873.53	3,471.67	3,247.16	15.47	22.06	124.74	-1,132.34	202.05	1,499.43	1,471.03	28.39	52.808		
4,000.00	3,972.77	3,559.20	3,325.77	15.89	22.79	124.59	-1,169.82	210.77	1,547.65	1,518.47	29.19	53.024		
4,100.00	4,072.01	3,646.73	3,404.39	16.30	23.53	124.44	-1,207.29	219.49	1,595.89	1,565.91	29.98	53.227		
4,200.00	4,171.24	3,734.26	3,483.01	16.71	24.26	124.30	-1,244.77	228.22	1,644.13	1,613.35	30.78	53.420		
4,300.00	4,270.48	3,821.78	3,561.62	17.12	24.99	124.17	-1,282.24	236.94	1,692.38	1,660.81	31.57	53.602		
4,400.00	4,369.71	3,909.31	3,640.24	17.53	25.72	124.05	-1,319.71	245.67	1,740.64	1,708.27	32.37	53.774		
4,500.00	4,468.95	3,996.84	3,718.86	17.94	26.46	123.93	-1,357.19	254.39	1,788.90	1,755.73	33.17	53.938		
4,600.00	4,568.19	4,084.37	3,797.47	18.35	27.19	123.82	-1,394.66	263.11	1,837.16	1,803.20	33.96	54.093		
4,700.00	4,667.42	4,171.89	3,876.09	18.76	27.92	123.72	-1,432.14	271.84	1,885.43	1,850.67	34.76	54.241		
4,800.00	4,766.66	4,259.42	3,954.71	19.18	28.66	123.62	-1,469.61	280.56	1,933.71	1,898.15	35.56	54.382		
4,900.00	4,865.89	4,346.95	4,033.32	19.59	29.39	123.53	-1,507.09	289.28	1,981.99	1,945.63	36.36	54.516		
5,000.00	4,965.13	4,434.48	4,111.94	20.00	30.13	123.44	-1,544.56	298.01	2,030.27	1,993.12	37.15	54.644		
5,100.00	5,064.37	4,522.00	4,190.56	20.41	30.86	123.35	-1,582.04	306.73	2,078.56	2,040.61	37.95	54.766		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 4AH - 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	5,163.60	4,609.53	4,269.18	20.82	31.60	123.27	-1,619.51	315.45	2,126.85	2,088.10	38.75	54.882		
5,300.00	5,262.84	4,702.94	4,347.79	21.23	32.38	123.19	-1,656.98	324.18	2,175.15	2,135.57	39.58	54.952		
5,400.00	5,362.07	4,784.59	4,426.41	21.64	33.07	123.12	-1,694.46	332.90	2,223.45	2,183.09	40.35	55.100		
5,500.00	5,461.31	4,872.11	4,505.03	22.05	33.80	123.05	-1,731.93	341.63	2,271.75	2,230.59	41.15	55.202		
5,600.00	5,560.55	4,959.64	4,583.64	22.47	34.54	122.98	-1,769.41	350.35	2,320.05	2,278.09	41.95	55.300		
5,700.00	5,659.78	5,047.17	4,662.26	22.88	35.27	122.91	-1,806.88	359.07	2,368.35	2,325.60	42.76	55.393		
5,800.00	5,759.02	5,134.70	4,740.88	23.29	36.01	122.85	-1,844.36	367.80	2,416.66	2,373.10	43.56	55.483		
5,900.00	5,858.25	5,222.22	4,819.49	23.70	36.74	122.79	-1,881.83	376.52	2,464.97	2,420.61	44.36	55.569		
6,000.00	5,957.49	5,309.75	4,898.11	24.11	37.48	122.73	-1,919.30	385.24	2,513.28	2,468.12	45.16	55.651		
6,100.00	6,056.73	5,402.72	4,976.73	24.52	38.26	122.67	-1,956.78	393.97	2,561.60	2,515.60	45.99	55.697		
6,200.00	6,155.96	5,484.81	5,055.35	24.93	38.95	122.62	-1,994.25	402.69	2,609.91	2,563.14	46.77	55.807		
6,300.00	6,255.20	5,572.33	5,133.96	25.34	39.69	122.57	-2,031.73	411.41	2,658.23	2,610.66	47.57	55.880		
6,400.00	6,354.43	5,659.86	5,212.58	25.76	40.43	122.52	-2,069.20	420.14	2,706.55	2,658.17	48.37	55.950		
6,500.00	6,453.67	5,747.39	5,291.20	26.17	41.16	122.47	-2,106.68	428.86	2,754.87	2,705.69	49.18	56.018		
6,600.00	6,552.91	5,834.91	5,369.81	26.58	41.90	122.42	-2,144.15	437.59	2,803.19	2,753.21	49.98	56.083		
6,700.00	6,652.14	5,922.44	5,448.43	26.99	42.64	122.38	-2,181.62	446.31	2,851.51	2,800.73	50.79	56.146		
6,800.00	6,751.38	6,009.97	5,527.05	27.40	43.37	122.33	-2,219.10	455.03	2,899.84	2,848.24	51.59	56.206		
6,900.00	6,850.61	6,102.50	5,605.66	27.81	44.15	122.29	-2,256.57	463.76	2,948.16	2,895.74	52.42	56.237		
7,000.00	6,949.85	6,185.02	5,684.28	28.22	44.85	122.25	-2,294.05	472.48	2,996.49	2,943.29	53.20	56.321		
7,100.00	7,049.09	6,272.55	5,762.90	28.64	45.58	122.21	-2,331.52	481.20	3,044.82	2,990.81	54.01	56.375		
7,200.00	7,148.32	6,360.08	5,841.51	29.05	46.32	122.17	-2,369.00	489.93	3,093.15	3,038.33	54.82	56.427		
7,300.00	7,247.89	6,447.27	5,919.83	29.42	47.05	-146.42	-2,406.33	498.62	3,141.33	3,085.76	55.57	56.534		
7,400.00	7,346.79	6,532.02	5,995.95	29.67	47.77	-97.88	-2,442.61	507.06	3,188.37	3,132.23	56.14	56.790		
7,500.00	7,442.07	6,611.74	6,067.55	29.83	48.44	-86.20	-2,476.74	515.01	3,233.23	3,176.66	56.57	57.156		
7,600.00	7,530.81	6,684.01	6,132.47	29.92	49.05	-79.76	-2,507.69	522.21	3,275.10	3,218.24	56.86	57.602		
7,700.00	7,610.33	6,746.64	6,188.72	29.97	49.58	-75.25	-2,534.50	528.45	3,313.39	3,256.35	57.04	58.087		
7,800.00	7,678.21	6,802.27	6,234.61	30.00	50.04	-71.80	-2,556.37	533.55	3,347.69	3,290.50	57.19	58.533		
7,900.00	7,732.39	6,835.72	6,268.73	30.08	50.33	-69.05	-2,572.64	537.33	3,377.63	3,320.33	57.30	58.944		
8,000.00	7,771.23	6,859.45	6,290.05	30.28	50.53	-66.81	-2,582.80	539.70	3,402.88	3,345.39	57.49	59.191		
8,100.00	7,793.53	6,868.22	6,297.92	30.66	50.60	-64.98	-2,586.55	540.57	3,423.10	3,365.33	57.77	59.259		
8,200.00	7,799.00	6,862.07	6,292.40	31.25	50.55	-63.77	-2,583.92	539.96	3,438.05	3,379.91	58.13	59.140		
8,300.00	7,799.00	6,851.13	6,282.57	32.08	50.46	-63.58	-2,579.23	538.87	3,453.13	3,394.46	58.68	58.851		
8,400.00	7,799.00	6,840.18	6,272.74	33.13	50.36	-63.40	-2,574.55	537.78	3,471.01	3,411.60	59.41	58.426		
8,500.00	7,799.00	6,829.24	6,262.92	34.37	50.27	-63.22	-2,569.87	536.69	3,491.62	3,431.31	60.31	57.895		
8,600.00	7,799.00	6,818.30	6,253.09	35.78	50.18	-63.04	-2,565.18	535.60	3,514.92	3,453.56	61.35	57.288		
8,700.00	7,799.00	6,807.36	6,243.26	37.33	50.09	-62.85	-2,560.50	534.51	3,540.86	3,478.34	62.52	56.634		
8,800.00	7,799.00	6,803.58	6,233.44	39.00	50.06	-62.67	-2,555.81	533.42	3,569.38	3,505.56	63.82	55.928		
8,900.00	7,799.00	6,785.48	6,223.61	40.79	49.90	-62.49	-2,551.13	532.33	3,600.42	3,535.29	65.13	55.278		
9,000.00	7,799.00	6,774.54	6,213.78	42.67	49.81	-62.30	-2,546.44	531.24	3,633.91	3,567.37	66.54	54.613		
9,100.00	7,799.00	6,763.60	6,203.95	44.63	49.72	-62.12	-2,541.76	530.14	3,669.79	3,601.80	67.99	53.974		
9,200.00	7,799.00	6,752.66	6,194.13	46.66	49.63	-61.94	-2,537.08	529.05	3,707.99	3,638.52	69.47	53.373		
9,300.00	7,799.00	6,741.72	6,184.30	48.76	49.53	-61.76	-2,532.39	527.96	3,748.44	3,677.47	70.97	52.815		
9,400.00	7,799.00	6,730.77	6,174.47	50.92	49.44	-61.57	-2,527.71	526.87	3,791.06	3,718.58	72.48	52.305		
9,500.00	7,799.00	10,104.12	7,799.00	53.12	64.45	-90.02	-3,303.05	-1,158.39	3,813.66	3,705.77	107.89	35.347		
9,600.00	7,799.00	10,204.15	7,799.00	55.37	65.27	-90.02	-3,303.11	-1,258.36	3,815.99	3,703.78	112.21	34.008		
9,700.00	7,799.00	10,304.17	7,799.00	57.65	66.29	-90.02	-3,303.16	-1,358.33	3,818.33	3,701.71	116.62	32.742		
9,800.00	7,799.00	10,404.20	7,799.00	59.97	67.55	-90.02	-3,303.21	-1,458.31	3,820.66	3,699.56	121.10	31.549		
9,900.00	7,799.00	10,504.23	7,799.00	62.32	69.01	-90.02	-3,303.27	-1,558.28	3,823.00	3,697.34	125.66	30.424		
10,000.00	7,799.00	10,604.26	7,799.00	64.69	70.67	-90.02	-3,303.32	-1,658.25	3,825.33	3,695.05	130.28	29.363		
10,100.00	7,799.00	10,704.28	7,799.00	67.09	72.47	-90.02	-3,303.37	-1,758.22	3,827.67	3,692.71	134.95	28.363		
10,200.00	7,799.00	10,804.31	7,799.00	69.51	74.40	-90.02	-3,303.42	-1,858.20	3,830.00	3,690.32	139.68	27.420		
10,300.00	7,799.00	10,904.34	7,799.00	71.95	76.43	-90.02	-3,303.48	-1,958.17	3,832.33	3,687.88	144.45	26.530		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 4AH - 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	7,799.00	11,004.37	7,799.00	74.41	78.54	-90.02	-3,303.53	-2,058.14	3,834.67	3,685.40	149.27	25.690		
10,500.00	7,799.00	11,104.39	7,799.00	76.89	80.71	-90.02	-3,303.58	-2,158.12	3,837.00	3,682.88	154.12	24.896		
10,600.00	7,799.00	11,204.42	7,799.00	79.37	82.93	-90.02	-3,303.63	-2,258.09	3,839.34	3,680.33	159.01	24.146		
10,700.00	7,799.00	11,304.45	7,799.00	81.87	85.19	-90.02	-3,303.69	-2,358.06	3,841.67	3,677.75	163.92	23.436		
10,800.00	7,799.00	11,404.47	7,799.00	84.39	87.49	-90.02	-3,303.74	-2,458.03	3,844.01	3,675.14	168.87	22.763		
10,900.00	7,799.00	11,504.50	7,799.00	86.91	89.83	-90.02	-3,303.79	-2,558.01	3,846.34	3,672.50	173.84	22.125		
11,000.00	7,799.00	11,604.53	7,799.00	89.44	92.18	-90.02	-3,303.85	-2,657.98	3,848.67	3,669.84	178.84	21.520		
11,100.00	7,799.00	11,704.56	7,799.00	91.99	94.57	-90.02	-3,303.90	-2,757.95	3,851.01	3,667.15	183.86	20.946		
11,200.00	7,799.00	11,804.58	7,799.00	94.54	96.97	-90.02	-3,303.95	-2,857.92	3,853.34	3,664.45	188.90	20.399		
11,300.00	7,799.00	11,904.61	7,799.00	97.10	99.39	-90.02	-3,304.00	-2,957.90	3,855.68	3,661.72	193.95	19.879		
11,400.00	7,799.00	12,004.64	7,799.00	99.66	101.83	-90.02	-3,304.06	-3,057.87	3,858.01	3,658.98	199.03	19.384		
11,500.00	7,799.00	12,104.66	7,799.00	102.24	104.28	-90.02	-3,304.11	-3,157.84	3,860.35	3,656.23	204.12	18.912		
11,600.00	7,799.00	12,204.69	7,799.00	104.82	106.74	-90.02	-3,304.16	-3,257.82	3,862.68	3,653.46	209.22	18.462		
11,700.00	7,799.00	12,304.72	7,799.00	107.40	109.22	-90.02	-3,304.21	-3,357.79	3,865.01	3,650.67	214.34	18.032		
11,800.00	7,799.00	12,404.75	7,799.00	109.99	111.71	-90.02	-3,304.27	-3,457.76	3,867.35	3,647.88	219.47	17.621		
11,900.00	7,799.00	12,504.77	7,799.00	112.58	114.21	-90.02	-3,304.32	-3,557.73	3,869.62	3,645.00	224.62	17.228		
12,000.00	7,799.00	12,604.79	7,799.00	115.17	116.72	-90.02	-3,304.37	-3,657.72	3,868.50	3,638.74	229.76	16.837		
12,100.00	7,799.00	12,705.00	7,799.00	117.74	119.24	-90.02	-3,304.42	-3,757.50	3,862.15	3,627.25	234.90	16.441		
12,200.00	7,799.00	12,805.69	7,799.00	120.27	121.78	-90.02	-3,304.48	-3,856.82	3,850.59	3,616.56	240.04	16.042		
12,300.00	7,799.00	12,907.11	7,799.00	122.76	124.35	-90.02	-3,304.53	-3,955.40	3,833.85	3,588.70	245.16	15.638		
12,400.00	7,799.00	13,009.54	7,799.00	125.19	126.95	-90.02	-3,304.58	-4,052.96	3,811.97	3,561.72	250.25	15.232		
12,500.00	7,799.00	13,086.74	7,799.00	127.57	128.92	-90.02	-3,304.63	-4,149.25	3,785.02	3,530.37	254.64	14.864		
12,600.00	7,799.00	13,181.64	7,799.00	129.88	131.34	-90.02	-3,304.68	-4,244.15	3,753.50	3,494.07	259.43	14.468		
12,700.00	7,799.00	13,276.26	7,799.00	132.19	133.76	-90.02	-3,304.73	-4,338.77	3,721.14	3,456.94	264.20	14.084		
12,800.00	7,799.00	13,370.88	7,799.00	134.50	136.18	-90.02	-3,304.78	-4,433.39	3,688.79	3,419.80	268.98	13.714		
12,900.00	7,799.00	13,465.51	7,799.00	136.83	138.61	-90.02	-3,304.83	-4,528.01	3,656.43	3,382.66	273.77	13.356		
13,000.00	7,799.00	13,560.13	7,799.00	139.16	141.04	-90.02	-3,304.88	-4,622.63	3,624.08	3,345.52	278.56	13.010		
13,100.00	7,799.00	13,654.75	7,799.00	141.50	143.48	-90.02	-3,304.93	-4,717.25	3,591.72	3,308.36	283.36	12.675		
13,200.00	7,799.00	13,749.37	7,799.00	143.84	145.92	-90.02	-3,304.98	-4,811.88	3,559.37	3,271.21	288.16	12.352		
13,300.00	7,799.00	13,843.99	7,799.00	146.19	148.36	-90.02	-3,305.03	-4,906.50	3,527.01	3,234.04	292.97	12.039		
13,400.00	7,799.00	13,938.61	7,799.00	148.55	150.81	-90.02	-3,305.08	-5,001.12	3,494.66	3,196.87	297.79	11.735		
13,500.00	7,799.00	14,033.23	7,799.00	150.92	153.26	-90.02	-3,305.13	-5,095.74	3,462.30	3,159.70	302.60	11.442		
13,600.00	7,799.00	14,127.85	7,799.00	153.29	155.71	-90.02	-3,305.18	-5,190.36	3,429.95	3,122.52	307.43	11.157		
13,700.00	7,799.00	14,222.47	7,799.00	155.66	158.17	-90.02	-3,305.23	-5,284.98	3,397.60	3,085.34	312.25	10.881		
13,800.00	7,799.00	14,317.10	7,799.00	158.04	160.63	-90.02	-3,305.28	-5,379.60	3,365.24	3,048.16	317.08	10.613		
13,900.00	7,799.00	14,411.72	7,799.00	160.43	163.09	-90.02	-3,305.33	-5,474.22	3,332.89	3,010.97	321.92	10.353		
14,000.00	7,799.00	14,506.34	7,799.00	162.82	165.55	-90.02	-3,305.38	-5,568.84	3,300.53	2,973.78	326.75	10.101		
14,100.00	7,799.00	14,600.96	7,799.00	165.21	168.02	-90.02	-3,305.43	-5,663.47	3,268.18	2,936.58	331.60	9.856		
14,200.00	7,799.00	14,704.42	7,799.00	167.61	170.72	-90.02	-3,305.48	-5,758.09	3,235.82	2,899.15	336.67	9.611		
14,300.00	7,799.00	14,809.80	7,799.00	170.02	173.48	-90.02	-3,305.53	-5,852.71	3,203.47	2,861.66	341.81	9.372		
14,400.00	7,799.00	14,884.82	7,799.00	172.42	175.44	-90.02	-3,305.58	-5,947.33	3,171.11	2,824.97	346.14	9.161		
14,500.00	7,799.00	14,979.44	7,799.00	174.84	177.91	-90.02	-3,305.63	-6,041.95	3,138.76	2,787.76	350.99	8.942		
14,600.00	7,799.00	15,074.68	7,799.00	177.28	180.41	-90.02	-3,305.68	-6,137.19	3,108.30	2,752.40	355.90	8.734		
14,700.00	7,799.00	15,171.37	7,799.00	179.78	182.94	-90.02	-3,305.73	-6,233.88	3,082.82	2,721.91	360.91	8.542		
14,800.00	7,799.00	15,269.26	7,799.00	182.34	185.51	-90.02	-3,305.78	-6,331.77	3,062.44	2,696.43	366.02	8.367		
14,900.00	7,799.00	15,368.08	7,799.00	184.94	188.10	-90.02	-3,305.83	-6,430.59	3,047.22	2,676.02	371.20	8.209		
15,000.00	7,799.00	15,467.57	7,799.00	187.56	190.71	-90.02	-3,305.89	-6,530.07	3,037.18	2,660.74	376.44	8.068		
15,100.00	7,799.00	15,567.44	7,799.00	190.21	193.34	-90.02	-3,305.94	-6,629.95	3,032.37	2,650.64	381.73	7.944		
15,197.31	7,799.00	15,664.74	7,799.00	192.78	195.90	-90.02	-3,305.99	-6,727.25	3,031.30	2,644.42	386.88	7.835		
15,200.00	7,799.00	15,667.44	7,799.00	192.85	195.97	-90.02	-3,305.99	-6,729.94	3,031.94	2,644.92	387.03	7.834		
15,300.00	7,799.00	15,767.44	7,799.00	195.50	198.60	-90.02	-3,306.04	-6,829.94	3,032.00	2,639.67	392.33	7.728		
15,400.00	7,799.00	15,867.44	7,799.00	198.16	201.23	-90.02	-3,306.10	-6,929.94	3,032.06	2,634.43	397.64	7.625		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOS 5-64 6-1 4AH - 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		
15,500.00	7,799.00	15,967.44	7,799.00	200.81	203.87	-90.02	-3,306.15	-7,029.94	3,032.13	2,629.18	402.94	7.525		
15,600.00	7,799.00	16,067.44	7,799.00	203.46	206.50	-90.02	-3,306.20	-7,129.94	3,032.19	2,623.93	408.26	7.427		
15,700.00	7,799.00	16,167.44	7,799.00	206.11	209.14	-90.02	-3,306.26	-7,229.94	3,032.25	2,618.68	413.57	7.332		
15,800.00	7,799.00	16,267.44	7,799.00	208.77	211.78	-90.02	-3,306.31	-7,329.94	3,032.31	2,613.43	418.88	7.239		
15,900.00	7,799.00	16,367.44	7,799.00	211.43	214.42	-90.02	-3,306.36	-7,429.94	3,032.37	2,608.17	424.20	7.148		
16,000.00	7,799.00	16,467.44	7,799.00	214.08	217.06	-90.02	-3,306.41	-7,529.94	3,032.43	2,602.91	429.51	7.060		
16,100.00	7,799.00	16,567.44	7,799.00	216.74	219.70	-90.02	-3,306.47	-7,629.94	3,032.49	2,597.66	434.83	6.974		
16,200.00	7,799.00	16,667.44	7,799.00	219.40	222.35	-90.02	-3,306.52	-7,729.94	3,032.55	2,592.40	440.15	6.890		
16,300.00	7,799.00	16,767.44	7,799.00	222.06	224.99	-90.02	-3,306.57	-7,829.94	3,032.61	2,587.14	445.48	6.808		
16,400.00	7,799.00	16,867.44	7,799.00	224.72	227.64	-90.02	-3,306.62	-7,929.94	3,032.67	2,581.87	450.80	6.727		
16,500.00	7,799.00	16,967.44	7,799.00	227.38	230.28	-90.02	-3,306.68	-8,029.94	3,032.73	2,576.61	456.12	6.649		
16,600.00	7,799.00	17,067.44	7,799.00	230.04	232.93	-90.02	-3,306.73	-8,129.94	3,032.79	2,571.34	461.45	6.572		
16,700.00	7,799.00	17,167.44	7,799.00	232.70	235.58	-90.02	-3,306.78	-8,229.94	3,032.85	2,566.08	466.78	6.497		
16,800.00	7,799.00	17,267.44	7,799.00	235.36	238.23	-90.02	-3,306.84	-8,329.94	3,032.92	2,560.81	472.11	6.424		
16,900.00	7,799.00	17,367.44	7,799.00	238.03	240.88	-90.02	-3,306.89	-8,429.94	3,032.98	2,555.54	477.44	6.353		
17,000.00	7,799.00	17,467.44	7,799.00	240.69	243.53	-90.02	-3,306.94	-8,529.94	3,033.04	2,550.27	482.77	6.283		
17,100.00	7,799.00	17,567.44	7,799.00	243.36	246.19	-90.02	-3,306.99	-8,629.94	3,033.10	2,545.00	488.10	6.214		
17,200.00	7,799.00	17,667.44	7,799.00	246.02	248.84	-90.02	-3,307.05	-8,729.94	3,033.16	2,539.73	493.43	6.147		
17,300.00	7,799.00	17,767.44	7,799.00	248.69	251.49	-90.02	-3,307.10	-8,829.94	3,033.22	2,534.45	498.77	6.081		
17,400.00	7,799.00	17,867.44	7,799.00	251.35	254.15	-90.02	-3,307.15	-8,929.94	3,033.28	2,529.18	504.10	6.017		
17,500.00	7,799.00	17,967.44	7,799.00	254.02	256.80	-90.02	-3,307.20	-9,029.94	3,033.34	2,523.90	509.44	5.954		
17,600.00	7,799.00	18,067.44	7,799.00	256.69	259.46	-90.02	-3,307.26	-9,129.94	3,033.40	2,518.63	514.77	5.893		
17,700.00	7,799.00	18,167.44	7,799.00	259.35	262.12	-90.02	-3,307.31	-9,229.94	3,033.46	2,513.35	520.11	5.832		
17,800.00	7,799.00	18,267.44	7,799.00	262.02	264.77	-90.02	-3,307.36	-9,329.94	3,033.52	2,508.07	525.45	5.773		
17,900.00	7,799.00	18,367.44	7,799.00	264.69	267.43	-90.02	-3,307.42	-9,429.94	3,033.58	2,502.79	530.79	5.715		
18,000.00	7,799.00	18,467.44	7,799.00	267.36	270.09	-90.02	-3,307.47	-9,529.94	3,033.65	2,497.51	536.13	5.658		
18,100.00	7,799.00	18,567.44	7,799.00	270.03	272.75	-90.02	-3,307.52	-9,629.94	3,033.71	2,492.23	541.47	5.603		
18,200.00	7,799.00	18,667.44	7,799.00	272.70	275.41	-90.02	-3,307.57	-9,729.94	3,033.77	2,486.95	546.81	5.548		
18,300.00	7,799.00	18,767.44	7,799.00	275.37	278.07	-90.02	-3,307.63	-9,829.94	3,033.83	2,481.67	552.16	5.494		
18,400.00	7,799.00	18,867.44	7,799.00	278.04	280.73	-90.02	-3,307.68	-9,929.94	3,033.89	2,476.39	557.50	5.442		
18,464.45	7,799.00	18,931.89	7,799.00	279.17	282.45	-90.02	-3,307.71	-9,994.39	3,033.93	2,473.58	560.34	5.414 SF		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOS 5-64 6-1 4BH - 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	
0.00	0.00	1.69	-1.69	0.00	0.00	-156.17	-109.64	-48.43	119.86					
100.00	100.00	101.69	98.31	0.14	0.14	-156.17	-109.64	-48.43	119.86	119.59	0.28	430.397		
200.00	200.00	198.31	198.31	0.49	0.49	-156.17	-109.64	-48.43	119.86	118.88	0.98	121.897 CC, ES		
300.00	299.98	294.95	294.94	0.85	0.82	144.18	-111.19	-48.15	122.62	120.95	1.68	73.079		
400.00	399.84	391.09	390.95	1.21	1.16	144.18	-115.91	-47.27	130.98	128.60	2.38	55.003		
500.00	499.45	486.35	485.87	1.58	1.50	144.17	-123.70	-45.83	144.89	141.79	3.10	46.792		
600.00	598.75	580.34	579.23	1.97	1.87	144.16	-134.43	-43.84	163.97	160.15	3.82	42.927		
700.00	697.98	673.19	671.04	2.37	2.25	143.80	-147.98	-41.32	186.10	181.57	4.53	41.066		
800.00	797.22	764.79	761.14	2.77	2.65	143.04	-164.21	-38.31	210.82	205.58	5.25	40.193		
900.00	896.46	854.99	849.29	3.17	3.08	142.05	-182.94	-34.84	238.16	232.20	5.96	39.970		
1,000.00	995.69	943.63	935.31	3.58	3.52	140.94	-204.01	-30.93	268.09	261.42	6.67	40.201		
1,100.00	1,094.93	1,030.60	1,019.01	3.98	3.99	139.78	-227.21	-26.63	300.62	293.25	7.37	40.804		
1,200.00	1,194.16	1,115.79	1,100.27	4.39	4.48	138.62	-252.34	-21.97	335.71	327.65	8.06	41.631		
1,300.00	1,293.40	1,199.10	1,178.97	4.80	4.99	137.49	-279.21	-16.98	373.34	364.59	8.75	42.675		
1,400.00	1,392.64	1,280.46	1,255.03	5.21	5.53	136.41	-307.61	-11.72	413.44	404.02	9.42	43.880		
1,500.00	1,491.87	1,359.82	1,328.39	5.62	6.08	135.38	-337.35	-6.20	455.97	445.89	10.08	45.224		
1,600.00	1,591.11	1,437.12	1,399.03	6.03	6.64	134.42	-368.23	-0.47	500.85	490.12	10.73	46.687		
1,700.00	1,690.34	1,512.34	1,466.92	6.44	7.22	133.51	-400.06	5.43	548.01	536.65	11.36	48.254		
1,800.00	1,789.58	1,585.46	1,532.08	6.85	7.81	132.67	-432.67	11.48	597.36	585.39	11.97	49.902		
1,900.00	1,888.82	1,656.48	1,594.54	7.26	8.41	131.89	-465.90	17.64	648.84	636.27	12.57	51.621		
2,000.00	1,988.05	1,725.40	1,654.34	7.67	9.01	131.17	-499.60	23.89	702.35	689.20	13.15	53.417		
2,100.00	2,087.29	1,806.95	1,724.49	8.08	9.75	130.38	-540.47	31.47	757.09	743.21	13.88	54.533		
2,200.00	2,186.52	1,909.82	1,796.09	8.49	10.68	129.68	-582.20	39.21	811.93	797.19	14.75	55.054		
2,300.00	2,285.76	1,973.41	1,867.69	8.90	11.27	129.08	-623.93	46.95	866.85	851.45	15.40	56.277		
2,400.00	2,385.00	2,056.65	1,939.29	9.31	12.04	128.54	-665.66	54.69	921.83	905.66	16.17	57.017		
2,500.00	2,484.23	2,139.88	2,010.90	9.72	12.81	128.06	-707.39	62.43	976.86	959.93	16.93	57.685		
2,600.00	2,583.47	2,223.12	2,082.50	10.13	13.58	127.63	-749.11	70.17	1,031.93	1,014.23	17.70	58.291		
2,700.00	2,682.70	2,306.35	2,154.10	10.54	14.36	127.25	-790.84	77.91	1,087.04	1,068.57	18.47	58.843		
2,800.00	2,781.94	2,389.58	2,225.70	10.95	15.14	126.90	-832.57	85.65	1,142.18	1,122.94	19.25	59.347		
2,900.00	2,881.18	2,472.82	2,297.30	11.36	15.92	126.59	-874.30	93.39	1,197.35	1,177.33	20.02	59.809		
3,000.00	2,980.41	2,556.05	2,368.90	11.77	16.70	126.30	-916.03	101.13	1,252.54	1,231.74	20.79	60.234		
3,100.00	3,079.65	2,639.29	2,440.50	12.19	17.49	126.04	-957.75	108.87	1,307.75	1,286.17	21.57	60.626		
3,200.00	3,178.88	2,722.52	2,512.11	12.60	18.27	125.80	-999.48	116.61	1,362.97	1,340.62	22.35	60.989		
3,300.00	3,278.12	2,805.75	2,583.71	13.01	19.06	125.57	-1,041.21	124.35	1,418.21	1,395.09	23.13	61.325		
3,400.00	3,377.36	2,888.99	2,655.31	13.42	19.84	125.37	-1,082.94	132.08	1,473.47	1,449.56	23.91	61.637		
3,500.00	3,476.59	2,972.22	2,726.91	13.83	20.63	125.17	-1,124.66	139.82	1,528.74	1,504.05	24.69	61.928		
3,600.00	3,575.83	3,055.45	2,798.51	14.24	21.42	125.00	-1,166.39	147.56	1,584.02	1,558.55	25.47	62.200		
3,700.00	3,675.06	3,138.69	2,870.11	14.65	22.21	124.83	-1,208.12	155.30	1,639.31	1,613.06	26.25	62.454		
3,800.00	3,774.30	3,221.92	2,941.71	15.06	23.00	124.68	-1,249.85	163.04	1,694.61	1,667.58	27.03	62.692		
3,900.00	3,873.53	3,305.16	3,013.31	15.47	23.79	124.53	-1,291.58	170.78	1,749.91	1,722.10	27.81	62.915		
4,000.00	3,972.77	3,388.39	3,084.92	15.89	24.58	124.39	-1,333.30	178.52	1,805.23	1,776.63	28.60	63.125		
4,100.00	4,072.01	3,471.62	3,156.52	16.30	25.37	124.26	-1,375.03	186.26	1,860.55	1,831.17	29.38	63.323		
4,200.00	4,171.24	3,554.86	3,228.12	16.71	26.16	124.14	-1,416.76	194.00	1,915.87	1,885.71	30.17	63.509		
4,300.00	4,270.48	3,638.09	3,299.72	17.12	26.95	124.03	-1,458.49	201.74	1,971.21	1,940.25	30.95	63.685		
4,400.00	4,369.71	3,721.33	3,371.32	17.53	27.74	123.92	-1,500.22	209.48	2,026.54	1,994.80	31.74	63.851		
4,500.00	4,468.95	3,804.56	3,442.92	17.94	28.53	123.82	-1,541.94	217.22	2,081.89	2,049.36	32.53	64.008		
4,600.00	4,568.19	3,887.79	3,514.52	18.35	29.32	123.72	-1,583.67	224.96	2,137.23	2,103.92	33.31	64.157		
4,700.00	4,667.42	3,971.03	3,586.13	18.76	30.12	123.63	-1,625.40	232.70	2,192.58	2,158.48	34.10	64.298		
4,800.00	4,766.66	4,054.26	3,657.73	19.18	30.91	123.54	-1,667.13	240.44	2,247.94	2,213.05	34.89	64.431		
4,900.00	4,865.89	4,137.49	3,729.33	19.59	31.70	123.46	-1,708.86	248.18	2,303.30	2,267.62	35.68	64.558		
5,000.00	4,965.13	4,220.73	3,800.93	20.00	32.50	123.38	-1,750.58	255.91	2,358.66	2,322.19	36.47	64.679		
5,100.00	5,064.37	4,303.96	3,872.53	20.41	33.29	123.30	-1,792.31	263.65	2,414.02	2,376.76	37.26	64.794		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 4BH - 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	5,163.60	4,387.20	3,944.13	20.82	34.08	123.23	-1,834.04	271.39	2,469.39	2,431.34	38.05	64.903		
5,300.00	5,262.84	4,470.43	4,015.73	21.23	34.88	123.16	-1,875.77	279.13	2,524.76	2,485.92	38.84	65.007		
5,400.00	5,362.07	4,553.66	4,087.34	21.64	35.67	123.09	-1,917.49	286.87	2,580.13	2,540.50	39.63	65.107		
5,500.00	5,461.31	4,636.90	4,158.94	22.05	36.46	123.03	-1,959.22	294.61	2,635.50	2,595.08	40.42	65.201		
5,600.00	5,560.55	4,720.13	4,230.54	22.47	37.26	122.97	-2,000.95	302.35	2,690.88	2,649.67	41.21	65.292		
5,700.00	5,659.78	4,803.37	4,302.14	22.88	38.05	122.91	-2,042.68	310.09	2,746.26	2,704.25	42.01	65.378		
5,800.00	5,759.02	4,886.60	4,373.74	23.29	38.84	122.86	-2,084.41	317.83	2,801.64	2,758.84	42.80	65.460		
5,900.00	5,858.25	4,969.83	4,445.34	23.70	39.64	122.80	-2,126.13	325.57	2,857.02	2,813.43	43.59	65.539		
6,000.00	5,957.49	5,053.07	4,516.94	24.11	40.43	122.75	-2,167.86	333.31	2,912.41	2,868.02	44.39	65.614		
6,100.00	6,056.73	5,136.30	4,588.55	24.52	41.23	122.70	-2,209.59	341.05	2,967.79	2,922.61	45.18	65.686		
6,200.00	6,155.96	5,219.53	4,660.15	24.93	42.02	122.65	-2,251.32	348.79	3,023.18	2,977.20	45.98	65.755		
6,300.00	6,255.20	5,302.77	4,731.75	25.34	42.82	122.60	-2,293.05	356.53	3,078.57	3,031.79	46.77	65.821		
6,400.00	6,354.43	5,386.00	4,803.35	25.76	43.61	122.56	-2,334.77	364.27	3,133.96	3,086.39	47.57	65.884		
6,500.00	6,453.67	5,469.24	4,874.95	26.17	44.41	122.52	-2,376.50	372.00	3,189.35	3,140.98	48.36	65.944		
6,600.00	6,552.91	5,552.47	4,946.55	26.58	45.20	122.47	-2,418.23	379.74	3,244.74	3,195.58	49.16	66.002		
6,700.00	6,652.14	5,635.70	5,018.15	26.99	46.00	122.43	-2,459.96	387.48	3,300.13	3,250.17	49.96	66.057		
6,800.00	6,751.38	5,718.94	5,089.76	27.40	46.79	122.40	-2,501.69	395.22	3,355.53	3,304.77	50.76	66.110		
6,900.00	6,850.61	5,802.17	5,161.36	27.81	47.59	122.36	-2,543.41	402.96	3,410.92	3,359.37	51.55	66.161		
7,000.00	6,949.85	5,885.41	5,232.96	28.22	48.38	122.32	-2,585.14	410.70	3,466.32	3,413.97	52.35	66.209		
7,100.00	7,049.09	5,968.64	5,304.56	28.64	49.18	122.29	-2,626.87	418.44	3,521.72	3,468.56	53.15	66.256		
7,200.00	7,148.32	6,051.87	5,376.16	29.05	49.97	122.25	-2,668.60	426.18	3,577.12	3,523.16	53.95	66.301		
7,300.00	7,247.89	6,134.79	5,447.49	29.42	50.76	-145.42	-2,710.16	433.89	3,632.34	3,577.64	54.70	66.408		
7,400.00	7,346.79	6,215.37	5,516.80	29.67	51.53	-95.80	-2,750.56	441.38	3,686.22	3,630.94	55.28	66.684		
7,500.00	7,442.07	6,308.84	5,582.01	29.83	52.43	-83.17	-2,788.56	448.43	3,737.44	3,681.64	55.81	66.969		
7,600.00	7,530.81	6,359.87	5,641.11	29.92	52.91	-75.96	-2,823.01	454.82	3,784.94	3,728.93	56.02	67.569		
7,700.00	7,610.33	6,419.41	5,692.33	29.97	53.48	-70.88	-2,852.85	460.35	3,827.87	3,771.66	56.22	68.091		
7,800.00	7,678.21	6,467.96	5,734.10	30.00	53.95	-67.06	-2,877.19	464.87	3,865.56	3,809.20	56.36	68.585		
7,900.00	7,732.39	6,504.05	5,765.14	30.08	54.29	-64.12	-2,895.29	468.22	3,897.47	3,840.96	56.51	68.972		
8,000.00	7,771.23	6,526.59	5,784.53	30.28	54.51	-61.88	-2,906.59	470.32	3,923.12	3,866.42	56.71	69.182		
8,100.00	7,793.53	6,534.89	5,791.67	30.66	54.59	-60.22	-2,910.75	471.09	3,942.12	3,885.13	56.99	69.170		
8,200.00	7,799.00	6,529.00	5,786.61	31.25	54.53	-59.25	-2,907.80	470.54	3,954.27	3,896.90	57.37	68.928		
8,300.00	7,799.00	6,518.56	5,777.63	32.08	54.43	-59.10	-2,902.56	469.57	3,965.83	3,907.92	57.92	68.476		
8,400.00	7,799.00	6,508.12	5,768.65	33.13	54.33	-58.95	-2,897.33	468.60	3,979.85	3,921.20	58.65	67.853		
8,500.00	7,799.00	6,497.68	5,759.67	34.37	54.23	-58.80	-2,892.10	467.63	3,996.29	3,936.73	59.56	67.093		
8,600.00	7,799.00	6,487.24	5,750.69	35.78	54.13	-58.65	-2,886.86	466.66	4,015.14	3,954.51	60.62	66.234		
8,700.00	7,799.00	6,476.80	5,741.71	37.33	54.03	-58.50	-2,881.63	465.69	4,036.34	3,974.53	61.81	65.308		
8,800.00	7,799.00	6,466.37	5,732.72	39.00	53.93	-58.35	-2,876.40	464.72	4,059.87	3,996.77	63.10	64.344		
8,900.00	7,799.00	6,455.93	5,723.74	40.79	53.83	-58.20	-2,871.16	463.75	4,085.68	4,021.21	64.48	63.367		
9,000.00	7,799.00	6,445.49	5,714.76	42.67	53.73	-58.05	-2,865.93	462.78	4,113.74	4,047.82	65.93	62.398		
9,100.00	7,799.00	6,435.05	5,705.78	44.63	53.63	-57.89	-2,860.69	461.81	4,144.00	4,076.57	67.44	61.452		
9,200.00	7,799.00	6,424.61	5,696.80	46.66	53.53	-57.74	-2,855.46	460.84	4,176.41	4,107.42	68.98	60.542		
9,300.00	7,799.00	6,414.17	5,687.82	48.76	53.43	-57.59	-2,850.23	459.87	4,210.91	4,140.35	70.56	59.677		
9,400.00	7,799.00	6,403.73	5,678.84	50.92	53.33	-57.44	-2,844.99	458.90	4,247.47	4,175.31	72.16	58.862		
9,500.00	7,799.00	6,406.71	5,669.86	53.12	53.36	-57.29	-2,839.76	457.93	4,286.02	4,212.18	73.84	58.047		
9,600.00	7,799.00	6,382.85	5,660.88	55.37	53.13	-57.14	-2,834.52	456.95	4,326.51	4,251.14	75.37	57.403		
9,700.00	7,799.00	6,372.41	5,651.90	57.65	53.03	-56.99	-2,829.29	455.98	4,368.90	4,291.93	76.97	56.761		
9,800.00	7,799.00	6,361.97	5,642.92	59.97	52.93	-56.84	-2,824.06	455.01	4,413.11	4,334.56	78.56	56.177		
9,900.00	7,799.00	6,351.53	5,633.94	62.32	52.83	-56.69	-2,818.82	454.04	4,459.11	4,378.99	80.12	55.652		
10,000.00	7,799.00	6,341.09	5,624.96	64.69	52.73	-56.54	-2,813.59	453.07	4,506.84	4,425.17	81.67	55.185		
10,100.00	7,799.00	6,330.65	5,615.98	67.09	52.63	-56.39	-2,808.36	452.10	4,556.23	4,473.05	83.18	54.772		
10,200.00	7,799.00	11,176.11	7,799.00	69.51	81.12	-90.02	-4,041.01	-1,929.27	4,568.11	4,426.22	141.89	32.195		
10,300.00	7,799.00	11,276.11	7,799.00	71.95	82.56	-90.02	-4,039.50	-2,029.26	4,568.88	4,422.25	146.63	31.159		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 4BH - 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	7,799.00	11,376.10	7,799.00	74.41	84.16	-90.02	-4,037.99	-2,129.24	4,569.65	4,418.23	151.41	30.180		
10,500.00	7,799.00	11,476.10	7,799.00	76.89	85.90	-90.02	-4,036.48	-2,229.23	4,570.42	4,414.18	156.24	29.253		
10,600.00	7,799.00	11,576.10	7,799.00	79.37	87.76	-90.02	-4,034.96	-2,329.21	4,571.19	4,410.09	161.10	28.375		
10,700.00	7,799.00	11,676.09	7,799.00	81.87	89.72	-90.02	-4,033.45	-2,429.20	4,571.96	4,405.97	165.99	27.543		
10,800.00	7,799.00	11,776.09	7,799.00	84.39	91.76	-90.02	-4,031.94	-2,529.18	4,572.73	4,401.82	170.91	26.755		
10,900.00	7,799.00	11,876.09	7,799.00	86.91	93.88	-90.02	-4,030.43	-2,629.17	4,573.50	4,397.64	175.86	26.006		
11,000.00	7,799.00	11,976.08	7,799.00	89.44	96.05	-90.02	-4,028.92	-2,729.15	4,574.27	4,393.43	180.84	25.295		
11,100.00	7,799.00	12,076.08	7,799.00	91.99	98.27	-90.02	-4,027.41	-2,829.14	4,575.04	4,389.20	185.84	24.619		
11,200.00	7,799.00	12,176.08	7,799.00	94.54	100.53	-90.02	-4,025.89	-2,929.13	4,575.81	4,384.96	190.85	23.975		
11,300.00	7,799.00	12,276.08	7,799.00	97.10	102.83	-90.02	-4,024.38	-3,029.11	4,576.58	4,380.69	195.89	23.363		
11,400.00	7,799.00	12,376.07	7,799.00	99.66	105.16	-90.02	-4,022.87	-3,129.10	4,577.35	4,376.40	200.95	22.779		
11,500.00	7,799.00	12,476.07	7,799.00	102.24	107.52	-90.02	-4,021.36	-3,229.08	4,578.12	4,372.10	206.02	22.222		
11,600.00	7,799.00	12,576.07	7,799.00	104.82	109.90	-90.02	-4,019.85	-3,329.07	4,578.89	4,367.78	211.11	21.690		
11,700.00	7,799.00	12,676.06	7,799.00	107.40	112.30	-90.02	-4,018.34	-3,429.05	4,579.66	4,363.45	216.21	21.181		
11,800.00	7,799.00	12,776.06	7,799.00	109.99	114.71	-90.02	-4,016.83	-3,529.04	4,580.43	4,359.10	221.33	20.695		
11,900.00	7,799.00	12,876.06	7,799.00	112.58	117.15	-90.02	-4,015.31	-3,629.03	4,581.13	4,354.67	226.46	20.229		
12,000.00	7,799.00	12,976.01	7,799.00	115.17	119.60	-90.02	-4,013.80	-3,728.97	4,578.45	4,346.86	231.59	19.770		
12,100.00	7,799.00	13,075.69	7,799.00	117.74	122.05	-90.02	-4,012.30	-3,828.63	4,570.55	4,333.84	236.70	19.309		
12,200.00	7,799.00	13,174.81	7,799.00	120.27	124.50	-90.02	-4,010.80	-3,927.74	4,567.44	4,315.66	241.78	18.850		
12,300.00	7,799.00	13,273.11	7,799.00	122.76	126.95	-90.02	-4,009.31	-4,026.04	4,539.15	4,292.36	246.80	18.392		
12,400.00	7,799.00	13,370.33	7,799.00	125.19	129.37	-90.02	-4,007.84	-4,123.24	4,515.75	4,264.01	251.74	17.938		
12,500.00	7,799.00	13,466.18	7,799.00	127.57	131.77	-90.02	-4,006.39	-4,219.08	4,487.29	4,230.70	256.59	17.488		
12,600.00	7,799.00	13,560.57	7,799.00	129.88	134.15	-90.02	-4,004.97	-4,313.46	4,454.29	4,192.95	261.34	17.044		
12,700.00	7,799.00	13,654.68	7,799.00	132.19	136.52	-90.02	-4,003.54	-4,407.55	4,420.46	4,154.38	266.08	16.613		
12,800.00	7,799.00	13,748.78	7,799.00	134.50	138.90	-90.02	-4,002.12	-4,501.65	4,386.63	4,115.80	270.83	16.197		
12,900.00	7,799.00	13,842.88	7,799.00	136.83	141.28	-90.02	-4,000.70	-4,595.74	4,352.80	4,077.22	275.58	15.795		
13,000.00	7,799.00	13,936.99	7,799.00	139.16	143.67	-90.02	-3,999.28	-4,689.83	4,318.97	4,038.63	280.34	15.406		
13,100.00	7,799.00	14,031.09	7,799.00	141.50	146.07	-90.02	-3,997.85	-4,783.92	4,285.14	4,000.03	285.10	15.030		
13,200.00	7,799.00	14,125.19	7,799.00	143.84	148.47	-90.02	-3,996.43	-4,878.02	4,251.31	3,961.43	289.87	14.666		
13,300.00	7,799.00	14,219.30	7,799.00	146.19	150.88	-90.02	-3,995.01	-4,972.11	4,217.47	3,922.83	294.65	14.314		
13,400.00	7,799.00	14,313.40	7,799.00	148.55	153.29	-90.02	-3,993.59	-5,066.20	4,183.64	3,884.22	299.43	13.972		
13,500.00	7,799.00	14,407.50	7,799.00	150.92	155.70	-90.02	-3,992.16	-5,160.29	4,149.81	3,845.60	304.21	13.641		
13,600.00	7,799.00	14,501.61	7,799.00	153.29	158.12	-90.03	-3,990.74	-5,254.39	4,115.98	3,806.98	309.00	13.320		
13,700.00	7,799.00	14,604.29	7,799.00	155.66	160.77	-90.03	-3,989.32	-5,348.48	4,082.15	3,768.13	314.02	13.000		
13,800.00	7,799.00	14,689.81	7,799.00	158.04	162.97	-90.03	-3,987.90	-5,442.57	4,048.32	3,729.72	318.59	12.707		
13,900.00	7,799.00	14,783.92	7,799.00	160.43	165.40	-90.03	-3,986.47	-5,536.67	4,014.49	3,691.09	323.40	12.414		
14,000.00	7,799.00	14,878.02	7,799.00	162.82	167.84	-90.03	-3,985.05	-5,630.76	3,980.66	3,652.45	328.20	12.129		
14,100.00	7,799.00	14,972.12	7,799.00	165.21	170.28	-90.03	-3,983.63	-5,724.85	3,946.83	3,613.81	333.01	11.852		
14,200.00	7,799.00	15,066.23	7,799.00	167.61	172.72	-90.03	-3,982.21	-5,818.94	3,912.99	3,575.17	337.83	11.583		
14,300.00	7,799.00	15,160.33	7,799.00	170.02	175.16	-90.03	-3,980.78	-5,913.04	3,879.16	3,536.52	342.64	11.321		
14,400.00	7,799.00	15,254.43	7,799.00	172.42	177.60	-90.03	-3,979.36	-6,007.13	3,845.33	3,497.87	347.46	11.067		
14,500.00	7,799.00	15,348.54	7,799.00	174.84	180.05	-90.03	-3,977.94	-6,101.22	3,811.50	3,459.21	352.29	10.819		
14,600.00	7,799.00	15,443.29	7,799.00	177.28	182.52	-90.03	-3,976.51	-6,195.96	3,779.56	3,422.40	357.16	10.582		
14,700.00	7,799.00	15,539.57	7,799.00	179.78	185.03	-90.03	-3,975.05	-6,292.23	3,752.57	3,390.43	362.15	10.362		
14,800.00	7,799.00	15,637.12	7,799.00	182.34	187.57	-90.03	-3,973.58	-6,389.78	3,730.67	3,363.43	367.23	10.159		
14,900.00	7,799.00	15,735.70	7,799.00	184.94	190.15	-90.03	-3,972.09	-6,488.34	3,713.89	3,341.49	372.40	9.973		
15,000.00	7,799.00	15,835.01	7,799.00	187.56	192.74	-90.03	-3,970.58	-6,587.64	3,702.30	3,324.68	377.63	9.804		
15,100.00	7,799.00	15,934.80	7,799.00	190.21	195.35	-90.03	-3,969.08	-6,687.41	3,695.93	3,313.03	382.90	9.652		
15,200.00	7,799.00	16,034.77	7,799.00	192.85	197.97	-90.03	-3,967.57	-6,787.38	3,693.94	3,305.74	388.20	9.516		
15,300.00	7,799.00	16,134.76	7,799.00	195.50	200.59	-90.03	-3,966.05	-6,887.36	3,692.43	3,298.94	393.50	9.384		
15,400.00	7,799.00	16,234.75	7,799.00	198.16	203.21	-90.03	-3,964.54	-6,987.33	3,690.93	3,292.13	398.80	9.255		
15,500.00	7,799.00	16,334.74	7,799.00	200.81	205.84	-90.03	-3,963.03	-7,087.31	3,689.43	3,285.32	404.11	9.130		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 6-T5S-R64W - ALAMOSA 5-64 6-1 4BH - 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	
15,600.00	7,799.00	16,434.73	7,799.00	203.46	208.46	-90.03	-3,961.52	-7,187.29	3,687.92	3,278.51	409.41	9.008	
15,700.00	7,799.00	16,534.72	7,799.00	206.11	211.09	-90.03	-3,960.01	-7,287.27	3,686.42	3,271.70	414.72	8.889	
15,800.00	7,799.00	16,634.71	7,799.00	208.77	213.72	-90.03	-3,958.50	-7,387.24	3,684.92	3,264.88	420.03	8.773	
15,900.00	7,799.00	16,734.69	7,799.00	211.43	216.35	-90.03	-3,956.99	-7,487.22	3,683.41	3,258.07	425.35	8.660	
16,000.00	7,799.00	16,834.68	7,799.00	214.08	218.98	-90.03	-3,955.47	-7,587.20	3,681.91	3,251.25	430.66	8.549	
16,100.00	7,799.00	16,934.67	7,799.00	216.74	221.62	-90.03	-3,953.96	-7,687.17	3,680.41	3,244.43	435.98	8.442	
16,200.00	7,799.00	17,034.66	7,799.00	219.40	224.25	-90.03	-3,952.45	-7,787.15	3,678.90	3,237.61	441.29	8.337	
16,300.00	7,799.00	17,134.65	7,799.00	222.06	226.89	-90.03	-3,950.94	-7,887.13	3,677.40	3,230.78	446.61	8.234	
16,400.00	7,799.00	17,234.64	7,799.00	224.72	229.53	-90.03	-3,949.43	-7,987.11	3,675.89	3,223.96	451.93	8.134	
16,500.00	7,799.00	17,334.63	7,799.00	227.38	232.17	-90.03	-3,947.92	-8,087.08	3,674.39	3,217.13	457.26	8.036	
16,600.00	7,799.00	17,434.62	7,799.00	230.04	234.81	-90.03	-3,946.40	-8,187.06	3,672.89	3,210.31	462.58	7.940	
16,700.00	7,799.00	17,534.60	7,799.00	232.70	237.45	-90.03	-3,944.89	-8,287.04	3,671.38	3,203.48	467.91	7.846	
16,800.00	7,799.00	17,634.59	7,799.00	235.36	240.09	-90.03	-3,943.38	-8,387.02	3,669.88	3,196.65	473.23	7.755	
16,900.00	7,799.00	17,734.58	7,799.00	238.03	242.73	-90.03	-3,941.87	-8,486.99	3,668.38	3,189.82	478.56	7.665	
17,000.00	7,799.00	17,834.57	7,799.00	240.69	245.38	-90.03	-3,940.36	-8,586.97	3,666.87	3,182.98	483.89	7.578	
17,100.00	7,799.00	17,934.56	7,799.00	243.36	248.02	-90.03	-3,938.85	-8,686.95	3,665.37	3,176.15	489.22	7.492	
17,200.00	7,799.00	18,034.55	7,799.00	246.02	250.67	-90.03	-3,937.34	-8,786.93	3,663.87	3,169.32	494.55	7.408	
17,300.00	7,799.00	18,134.54	7,799.00	248.69	253.32	-90.03	-3,935.82	-8,886.90	3,662.36	3,162.48	499.88	7.326	
17,400.00	7,799.00	18,234.53	7,799.00	251.35	255.97	-90.03	-3,934.31	-8,986.88	3,660.86	3,155.64	505.22	7.246	
17,500.00	7,799.00	18,334.51	7,799.00	254.02	258.62	-90.03	-3,932.80	-9,086.86	3,659.36	3,148.80	510.55	7.167	
17,600.00	7,799.00	18,434.50	7,799.00	256.69	261.27	-90.03	-3,931.29	-9,186.83	3,657.85	3,141.96	515.89	7.090	
17,700.00	7,799.00	18,534.49	7,799.00	259.35	263.92	-90.03	-3,929.78	-9,286.81	3,656.35	3,135.12	521.22	7.015	
17,800.00	7,799.00	18,634.48	7,799.00	262.02	266.57	-90.03	-3,928.27	-9,386.79	3,654.85	3,128.28	526.56	6.941	
17,900.00	7,799.00	18,734.47	7,799.00	264.69	269.23	-90.03	-3,926.76	-9,486.77	3,653.34	3,121.44	531.90	6.868	
18,000.00	7,799.00	18,834.46	7,799.00	267.36	271.88	-90.03	-3,925.24	-9,586.74	3,651.84	3,114.60	537.24	6.797	
18,100.00	7,799.00	18,934.45	7,799.00	270.03	274.54	-90.03	-3,923.73	-9,686.72	3,650.33	3,107.75	542.58	6.728	
18,200.00	7,799.00	19,034.43	7,799.00	272.70	277.19	-90.03	-3,922.22	-9,786.70	3,648.83	3,100.91	547.92	6.659	
18,300.00	7,799.00	19,134.42	7,799.00	275.37	279.85	-90.03	-3,920.71	-9,886.68	3,647.33	3,094.06	553.26	6.592	
18,400.00	7,799.00	19,234.41	7,799.00	278.04	282.50	-90.03	-3,919.20	-9,986.65	3,645.82	3,087.22	558.61	6.527	
18,464.45	7,799.00	19,274.38	7,799.00	279.17	283.57	-90.03	-3,918.59	-10,026.61	3,644.94	3,083.85	561.09	6.496 SF	



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 26-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	-106.76	-2,764.93	-9,181.87	9,590.39					
100.00	100.00	0.00	0.00	0.14	0.00	-106.76	-2,764.93	-9,181.87	9,589.30	9,589.16	0.14	N/A		
160.94	160.94	6.23	6.23	0.35	0.00	-106.76	-2,764.93	-9,181.87	9,589.14	9,588.79	0.36	N/A		
200.00	200.00	42.55	42.55	0.49	0.06	-106.76	-2,764.93	-9,181.87	9,589.14	9,588.59	0.56	N/A		
300.00	299.98	127.65	127.65	0.85	0.36	-166.42	-2,764.93	-9,181.97	9,590.94	9,589.73	1.21	7,894.304		
400.00	399.84	218.35	218.35	1.21	0.69	-166.40	-2,764.93	-9,182.19	9,596.26	9,594.36	1.90	5,050.190		
500.00	499.45	327.40	327.40	1.58	1.07	-166.38	-2,764.99	-9,182.45	9,604.98	9,602.33	2.65	3,621.041		
600.00	598.75	448.37	448.36	1.97	1.49	-166.37	-2,765.26	-9,182.42	9,616.52	9,613.08	3.44	2,796.325		
700.00	697.98	559.19	559.19	2.37	1.87	-166.39	-2,765.47	-9,182.25	9,628.42	9,624.24	4.18	2,304.240		
800.00	797.22	662.41	662.41	2.77	2.23	-166.41	-2,765.51	-9,182.02	9,640.22	9,635.32	4.90	1,968.981		
900.00	896.46	780.01	780.01	3.17	2.64	-166.43	-2,765.44	-9,181.65	9,651.89	9,646.22	5.67	1,703.044		
1,000.00	995.69	848.99	848.98	3.58	2.88	-166.44	-2,765.09	-9,181.58	9,663.65	9,657.38	6.27	1,541.063		
1,100.00	1,094.93	933.76	933.76	3.98	3.17	-166.45	-2,764.50	-9,181.77	9,675.66	9,668.73	6.93	1,396.180		
1,200.00	1,194.16	1,030.89	1,030.88	4.39	3.51	-166.46	-2,764.09	-9,181.98	9,687.74	9,680.11	7.63	1,268.930		
1,300.00	1,293.40	1,134.97	1,134.97	4.80	3.88	-166.48	-2,763.88	-9,182.12	9,699.81	9,691.45	8.37	1,159.480		
1,400.00	1,392.64	1,216.45	1,216.45	5.21	4.16	-166.49	-2,763.79	-9,182.25	9,711.94	9,702.92	9.02	1,076.943		
1,500.00	1,491.87	1,311.95	1,311.94	5.62	4.50	-166.51	-2,763.69	-9,182.53	9,724.19	9,714.47	9.72	1,000.354		
1,600.00	1,591.11	1,424.43	1,424.43	6.03	4.90	-166.53	-2,763.61	-9,182.79	9,736.39	9,725.90	10.49	928.596		
1,700.00	1,690.34	1,507.13	1,507.12	6.44	5.19	-166.54	-2,763.50	-9,183.02	9,748.62	9,737.48	11.14	874.783		
1,800.00	1,789.58	1,600.32	1,600.31	6.85	5.52	-166.55	-2,763.29	-9,183.40	9,760.95	9,749.11	11.84	824.334		
1,900.00	1,888.82	1,694.95	1,694.94	7.26	5.86	-166.57	-2,763.19	-9,183.81	9,773.33	9,760.79	12.54	779.186		
2,000.00	1,988.05	1,794.61	1,794.60	7.67	6.21	-166.59	-2,763.26	-9,184.21	9,785.73	9,772.47	13.26	737.844		
2,100.00	2,087.29	1,890.55	1,890.54	8.08	6.55	-166.60	-2,763.32	-9,184.58	9,798.13	9,784.16	13.97	701.413		
2,200.00	2,186.52	1,972.88	1,972.86	8.49	6.84	-166.62	-2,763.44	-9,184.99	9,810.65	9,796.03	14.63	670.737		
2,300.00	2,285.76	2,065.21	2,065.19	8.90	7.17	-166.63	-2,763.61	-9,185.55	9,823.29	9,807.97	15.32	641.191		
2,400.00	2,385.00	2,156.81	2,156.80	9.31	7.49	-166.65	-2,763.83	-9,186.17	9,836.01	9,819.99	16.01	614.300		
2,500.00	2,484.23	2,260.87	2,260.85	9.72	7.86	-166.66	-2,764.08	-9,186.89	9,848.75	9,832.00	16.75	588.035		
2,600.00	2,583.47	2,423.72	2,423.70	10.13	8.44	-166.69	-2,764.28	-9,187.37	9,861.04	9,843.34	17.70	557.228		
2,700.00	2,682.70	2,535.03	2,535.01	10.54	8.82	-166.71	-2,764.27	-9,187.36	9,873.04	9,854.59	18.45	535.109		
2,800.00	2,781.94	2,640.71	2,640.69	10.95	9.18	-166.73	-2,764.23	-9,187.25	9,884.94	9,865.76	19.18	515.405		
2,900.00	2,881.18	2,729.30	2,729.28	11.36	9.49	-166.74	-2,764.24	-9,187.16	9,896.86	9,877.01	19.85	498.589		
3,000.00	2,980.41	2,825.61	2,825.58	11.77	9.82	-166.76	-2,764.25	-9,187.16	9,908.88	9,888.33	20.55	482.185		
3,100.00	3,079.65	2,927.21	2,927.19	12.19	10.17	-166.77	-2,764.26	-9,187.14	9,920.88	9,899.61	21.27	466.438		
3,200.00	3,178.88	3,037.81	3,024.17	12.60	10.56	-166.79	-2,764.24	-9,187.14	9,932.88	9,910.86	22.02	451.030		
3,300.00	3,278.12	3,123.43	3,123.41	13.01	10.86	-166.81	-2,764.24	-9,187.14	9,944.90	9,922.21	22.69	438.297		
3,400.00	3,377.36	3,211.83	3,211.81	13.42	11.17	-166.82	-2,764.24	-9,187.19	9,956.97	9,933.60	23.37	426.104		
3,500.00	3,476.59	3,323.04	3,323.02	13.83	11.56	-166.84	-2,764.24	-9,187.25	9,969.05	9,944.92	24.13	413.174		
3,600.00	3,575.83	3,429.59	3,429.57	14.24	11.93	-166.86	-2,764.26	-9,187.17	9,981.00	9,956.14	24.86	401.415		
3,700.00	3,675.06	3,520.75	3,520.73	14.65	12.24	-166.87	-2,764.26	-9,187.14	9,992.98	9,967.44	25.55	391.148		
8,400.00	7,799.00	5,771.00	5,766.98	33.13	20.11	-61.57	-2,772.84	-9,246.28	9,925.53	9,877.69	47.85	207.432		
8,500.00	7,799.00	5,771.00	5,766.98	34.37	20.11	-61.57	-2,772.84	-9,246.28	9,833.84	9,785.73	48.12	204.374		
8,600.00	7,799.00	5,771.00	5,766.98	35.78	20.11	-61.57	-2,772.84	-9,246.28	9,742.31	9,693.89	48.42	201.190		
8,700.00	7,799.00	5,771.00	5,766.98	37.33	20.11	-61.57	-2,772.84	-9,246.28	9,650.95	9,602.18	48.77	197.887		
8,800.00	7,799.00	5,771.00	5,766.98	39.00	20.11	-61.57	-2,772.84	-9,246.28	9,559.77	9,510.61	49.16	194.474		
8,900.00	7,799.00	5,771.00	5,766.98	40.79	20.11	-61.57	-2,772.84	-9,246.28	9,468.76	9,419.17	49.59	190.958		
9,000.00	7,799.00	5,771.00	5,766.98	42.67	20.11	-61.57	-2,772.84	-9,246.28	9,377.93	9,327.88	50.06	187.350		
9,100.00	7,799.00	5,771.00	5,766.98	44.63	20.11	-61.57	-2,772.84	-9,246.28	9,287.29	9,236.73	50.57	183.657		
9,200.00	7,799.00	5,771.00	5,766.98	46.66	20.11	-61.57	-2,772.84	-9,246.28	9,196.85	9,145.73	51.12	179.892		
9,300.00	7,799.00	5,771.00	5,766.98	48.76	20.11	-61.57	-2,772.84	-9,246.28	9,106.61	9,054.88	51.72	176.064		
9,400.00	7,799.00	5,771.00	5,766.98	50.92	20.11	-61.57	-2,772.84	-9,246.28	9,016.57	8,964.20	52.37	172.185		
9,500.00	7,799.00	5,804.34	5,799.55	53.12	20.24	-61.99	-2,773.31	-9,253.34	8,926.52	8,873.32	53.21	167.766		
9,600.00	7,799.00	5,810.56	5,805.63	55.37	20.26	-62.07	-2,773.39	-9,254.70	8,836.83	8,782.86	53.97	163.742		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 26-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	7,799.00	5,816.90	5,811.81	57.65	20.28	-62.15	-2,773.46	-9,256.10	8,747.34	8,692.57	54.77	159.703		
9,800.00	7,799.00	5,823.36	5,818.11	59.97	20.31	-62.23	-2,773.54	-9,257.53	8,658.06	8,602.44	55.62	155.659		
9,900.00	7,799.00	5,829.94	5,824.53	62.32	20.33	-62.31	-2,773.61	-9,259.01	8,569.01	8,512.49	56.52	151.620		
10,000.00	7,799.00	5,865.00	5,858.63	64.69	20.46	-62.76	-2,773.95	-9,267.12	8,480.34	8,422.75	57.59	147.256		
10,100.00	7,799.00	5,865.00	5,858.63	67.09	20.46	-62.76	-2,773.95	-9,267.12	8,391.67	8,333.13	58.54	143.346		
10,200.00	7,799.00	5,865.00	5,858.63	69.51	20.46	-62.76	-2,773.95	-9,267.12	8,303.27	8,243.73	59.54	139.460		
10,300.00	7,799.00	5,865.00	5,858.63	71.95	20.46	-62.76	-2,773.95	-9,267.12	8,215.13	8,154.55	60.58	135.607		
10,400.00	7,799.00	5,865.00	5,858.63	74.41	20.46	-62.76	-2,773.95	-9,267.12	8,127.26	8,065.59	61.67	131.793		
10,500.00	7,799.00	5,865.00	5,858.63	76.89	20.46	-62.76	-2,773.95	-9,267.12	8,039.68	7,976.88	62.80	128.023		
10,600.00	7,799.00	5,865.00	5,858.63	79.37	20.46	-62.76	-2,773.95	-9,267.12	7,952.39	7,888.42	63.98	124.304		
10,700.00	7,799.00	5,865.00	5,858.63	81.87	20.46	-62.76	-2,773.95	-9,267.12	7,865.40	7,800.21	65.20	120.639		
10,800.00	7,799.00	5,865.00	5,858.63	84.39	20.46	-62.76	-2,773.95	-9,267.12	7,778.73	7,712.27	66.47	117.034		
10,900.00	7,799.00	5,865.00	5,858.63	86.91	20.46	-62.76	-2,773.95	-9,267.12	7,692.38	7,624.60	67.78	113.492		
11,000.00	7,799.00	5,865.00	5,858.63	89.44	20.46	-62.76	-2,773.95	-9,267.12	7,606.36	7,537.23	69.14	110.015		
11,100.00	7,799.00	5,901.90	5,894.41	91.99	20.60	-63.23	-2,774.40	-9,276.13	7,520.29	7,449.57	70.72	106.332		
11,200.00	7,799.00	5,907.57	5,899.90	94.54	20.62	-63.31	-2,774.49	-9,277.57	7,434.84	7,362.64	72.21	102.966		
11,300.00	7,799.00	5,913.35	5,905.48	97.10	20.64	-63.38	-2,774.59	-9,279.04	7,349.74	7,276.01	73.74	99.675		
11,400.00	7,799.00	5,919.23	5,911.16	99.66	20.67	-63.46	-2,774.70	-9,280.56	7,265.00	7,189.68	75.32	96.460		
11,500.00	7,799.00	5,959.00	5,949.47	102.24	20.82	-63.97	-2,775.60	-9,291.18	7,180.97	7,103.86	77.11	93.126		
11,600.00	7,799.00	5,959.00	5,949.47	104.82	20.82	-63.97	-2,775.60	-9,291.18	7,096.88	7,018.12	78.76	90.108		
11,700.00	7,799.00	5,959.00	5,949.47	107.40	20.82	-63.97	-2,775.60	-9,291.18	7,013.20	6,932.74	80.46	87.164		
11,800.00	7,799.00	5,959.00	5,949.47	109.99	20.82	-63.97	-2,775.60	-9,291.18	6,929.95	6,847.74	82.21	84.295		
11,900.00	7,799.00	5,959.00	5,949.47	112.58	20.82	-63.66	-2,775.60	-9,291.18	6,847.12	6,763.11	84.01	81.504		
12,000.00	7,799.00	5,959.00	5,949.47	115.17	20.82	-61.52	-2,775.60	-9,291.18	6,763.07	6,677.32	85.75	78.868		
12,100.00	7,799.00	5,959.00	5,949.47	117.74	20.82	-59.01	-2,775.60	-9,291.18	6,677.01	6,589.65	87.37	76.424		
12,200.00	7,799.00	5,959.00	5,949.47	120.27	20.82	-56.04	-2,775.60	-9,291.18	6,589.11	6,500.27	88.85	74.164		
12,300.00	7,799.00	5,959.00	5,949.47	122.76	20.82	-52.51	-2,775.60	-9,291.18	6,499.53	6,409.36	90.18	72.076		
12,400.00	7,799.00	5,959.00	5,949.47	125.19	20.82	-48.29	-2,775.60	-9,291.18	6,408.45	6,317.11	91.35	70.154		
12,500.00	7,799.00	5,994.53	5,983.57	127.57	20.96	-43.79	-2,776.74	-9,301.13	6,315.71	6,223.17	92.54	68.248		
12,600.00	7,799.00	6,002.39	5,991.09	129.88	20.99	-40.52	-2,777.05	-9,303.38	6,222.14	6,128.71	93.43	66.594		
12,700.00	7,799.00	6,010.40	5,998.75	132.19	21.02	-40.64	-2,777.38	-9,305.69	6,128.53	6,034.21	94.32	64.977		
12,800.00	7,799.00	6,018.58	6,006.57	134.50	21.05	-40.77	-2,777.74	-9,308.06	6,035.08	5,939.85	95.23	63.373		
12,900.00	7,799.00	6,054.00	6,040.35	136.83	21.19	-41.33	-2,779.54	-9,318.57	5,942.03	5,845.71	96.32	61.691		
13,000.00	7,799.00	6,054.00	6,040.35	139.16	21.19	-41.33	-2,779.54	-9,318.57	5,848.82	5,751.58	97.25	60.145		
13,100.00	7,799.00	6,054.00	6,040.35	141.50	21.19	-41.33	-2,779.54	-9,318.57	5,755.84	5,657.64	98.20	58.612		
13,200.00	7,799.00	6,054.00	6,040.35	143.84	21.19	-41.33	-2,779.54	-9,318.57	5,663.11	5,563.91	99.19	57.093		
13,300.00	7,799.00	6,054.00	6,040.35	146.19	21.19	-41.33	-2,779.54	-9,318.57	5,570.62	5,470.41	100.21	55.589		
13,400.00	7,799.00	6,054.00	6,040.35	148.55	21.19	-41.33	-2,779.54	-9,318.57	5,478.39	5,377.13	101.27	54.100		
13,500.00	7,799.00	6,084.55	6,069.37	150.92	21.32	-41.82	-2,781.30	-9,327.94	5,386.20	5,283.67	102.53	52.534		
13,600.00	7,799.00	6,095.60	6,079.84	153.29	21.36	-42.00	-2,781.96	-9,331.41	5,294.33	5,190.61	103.72	51.046		
13,700.00	7,799.00	6,106.93	6,090.56	155.66	21.41	-42.18	-2,782.66	-9,335.01	5,202.69	5,097.74	104.95	49.574		
13,800.00	7,799.00	6,118.54	6,101.53	158.04	21.45	-42.38	-2,783.38	-9,338.74	5,111.30	5,005.07	106.22	48.119		
13,900.00	7,799.00	6,148.00	6,129.30	160.43	21.58	-42.87	-2,785.27	-9,348.40	5,020.24	4,912.60	107.64	46.640		
14,000.00	7,799.00	6,148.00	6,129.30	162.82	21.58	-42.87	-2,785.27	-9,348.40	4,929.28	4,820.34	108.93	45.250		
14,100.00	7,799.00	6,148.00	6,129.30	165.21	21.58	-42.87	-2,785.27	-9,348.40	4,838.68	4,728.40	110.28	43.877		
14,200.00	7,799.00	6,148.00	6,129.30	167.61	21.58	-42.87	-2,785.27	-9,348.40	4,748.45	4,636.78	111.67	42.523		
14,300.00	7,799.00	6,148.00	6,129.30	170.02	21.58	-42.87	-2,785.27	-9,348.40	4,658.63	4,545.52	113.11	41.188		
14,400.00	7,799.00	6,186.82	6,165.70	172.42	21.74	-43.53	-2,787.94	-9,361.63	4,568.71	4,453.88	114.83	39.787		
14,500.00	7,799.00	6,198.42	6,176.52	174.84	21.79	-43.73	-2,788.79	-9,365.70	4,479.41	4,362.96	116.45	38.466		
14,600.00	7,799.00	6,210.38	6,187.66	177.28	21.84	-47.36	-2,789.69	-9,369.95	4,391.13	4,272.89	118.24	37.138		
14,700.00	7,799.00	6,243.00	6,217.93	179.78	21.98	-51.25	-2,792.28	-9,381.85	4,305.31	4,184.81	120.50	35.730		
14,800.00	7,799.00	6,243.00	6,217.93	182.34	21.98	-54.00	-2,792.28	-9,381.85	4,221.94	4,099.01	122.93	34.345		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - EXIST HZ STATE CHALLENGER 5-65 2-3 3BYH LATERAL A - LATERAL A - LATE													Offset Site Error:	0.00 usft
Survey Program: 26-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,900.00	7,799.00	6,243.00	6,217.93	184.94	21.98	-56.30	-2,792.28	-9,381.85	4,141.79	4,016.06	125.72	32.944		
15,000.00	7,799.00	6,243.00	6,217.93	187.56	21.98	-58.23	-2,792.28	-9,381.85	4,065.27	3,936.38	128.89	31.540		
15,100.00	7,799.00	6,281.70	6,253.58	190.21	22.16	-60.51	-2,795.36	-9,396.60	3,992.37	3,859.69	132.68	30.090		
15,200.00	7,799.00	6,298.67	6,269.11	192.85	22.24	-61.41	-2,796.65	-9,403.31	3,923.39	3,786.73	136.66	28.710		
15,300.00	7,799.00	6,337.00	6,303.97	195.50	22.42	-62.05	-2,799.42	-9,419.00	3,856.02	3,715.13	140.89	27.369		
15,400.00	7,799.00	6,337.00	6,303.97	198.16	22.42	-62.05	-2,799.42	-9,419.00	3,789.65	3,644.63	145.02	26.132		
15,500.00	7,799.00	6,364.68	6,328.98	200.81	22.55	-62.51	-2,801.23	-9,430.74	3,724.64	3,575.22	149.43	24.926		
15,600.00	7,799.00	6,397.49	6,358.45	203.46	22.71	-63.05	-2,803.09	-9,445.02	3,660.84	3,506.88	153.96	23.777		
15,700.00	7,799.00	6,432.00	6,389.27	206.11	22.88	-63.62	-2,804.70	-9,460.47	3,598.28	3,439.66	158.61	22.686		
15,800.00	7,799.00	6,460.14	6,414.25	208.77	23.03	-64.09	-2,805.83	-9,473.36	3,537.03	3,373.69	163.34	21.654		
15,900.00	7,799.00	6,489.17	6,439.91	211.43	23.19	-64.57	-2,806.94	-9,486.91	3,477.20	3,309.01	168.18	20.675		
16,000.00	7,799.00	6,526.00	6,472.26	214.08	23.38	-65.18	-2,808.25	-9,504.45	3,418.85	3,245.68	173.16	19.743		
16,100.00	7,799.00	6,549.12	6,492.46	216.74	23.51	-65.57	-2,809.01	-9,515.68	3,362.01	3,183.81	178.19	18.867		
16,200.00	7,799.00	6,579.74	6,519.05	219.40	23.69	-66.07	-2,809.96	-9,530.82	3,306.78	3,123.43	183.36	18.035		
16,300.00	7,799.00	6,621.00	6,554.62	222.06	23.92	-66.76	-2,811.13	-9,551.70	3,253.24	3,064.58	188.65	17.245		
16,400.00	7,799.00	6,646.94	6,576.84	224.72	24.08	-67.19	-2,811.81	-9,565.08	3,201.34	3,007.36	193.98	16.503		
16,500.00	7,799.00	6,684.21	6,608.62	227.38	24.31	-67.81	-2,812.76	-9,584.53	3,151.19	2,951.75	199.44	15.800		
16,600.00	7,799.00	6,715.00	6,634.73	230.04	24.50	-68.32	-2,813.53	-9,600.82	3,102.82	2,897.88	204.95	15.140		
16,700.00	7,799.00	6,760.33	6,672.95	232.70	24.81	-69.08	-2,814.62	-9,625.17	3,056.27	2,845.67	210.60	14.512		
16,800.00	7,799.00	6,799.55	6,705.79	235.36	25.07	-69.73	-2,815.55	-9,646.59	3,011.64	2,795.37	216.28	13.925		
16,900.00	7,799.00	6,836.62	6,736.62	238.03	25.33	-70.35	-2,816.42	-9,667.16	2,969.00	2,747.00	222.00	13.374		
17,000.00	7,799.00	6,873.66	6,767.20	240.69	25.59	-70.97	-2,817.33	-9,688.04	2,928.44	2,700.69	227.75	12.858		
17,100.00	7,799.00	6,915.37	6,801.36	243.36	25.89	-71.67	-2,818.40	-9,711.94	2,890.04	2,656.49	233.55	12.374		
17,200.00	7,799.00	6,971.06	6,846.86	246.02	26.32	-72.61	-2,819.88	-9,744.02	2,853.61	2,614.15	239.46	11.917		
17,300.00	7,799.00	7,025.76	6,891.54	248.69	26.75	-73.54	-2,821.36	-9,775.54	2,819.12	2,573.74	245.38	11.489		
17,400.00	7,799.00	7,079.41	6,935.35	251.35	27.17	-74.46	-2,822.89	-9,806.47	2,786.68	2,535.38	251.29	11.089		
17,500.00	7,799.00	7,137.38	6,982.68	254.02	27.65	-75.46	-2,824.59	-9,839.90	2,756.33	2,499.10	257.23	10.716		
17,600.00	7,799.00	7,196.88	7,031.24	256.69	28.15	-76.49	-2,826.28	-9,874.24	2,728.06	2,464.93	263.13	10.368		
17,700.00	7,799.00	7,250.91	7,075.35	259.35	28.61	-77.44	-2,827.85	-9,905.41	2,701.99	2,433.04	268.95	10.047		
17,800.00	7,799.00	7,305.64	7,120.03	262.02	29.09	-78.41	-2,829.51	-9,936.96	2,678.22	2,403.53	274.68	9.750		
17,900.00	7,799.00	7,360.37	7,164.73	264.69	29.58	-79.38	-2,831.24	-9,968.51	2,656.81	2,376.49	280.32	9.478		
18,000.00	7,799.00	7,415.59	7,209.82	267.36	30.08	-80.37	-2,833.04	-10,000.33	2,637.82	2,351.99	285.83	9.229		
18,100.00	7,799.00	7,470.99	7,255.06	270.03	30.58	-81.36	-2,834.89	-10,032.26	2,621.30	2,330.10	291.20	9.002		
18,200.00	7,799.00	7,528.24	7,301.79	272.70	31.12	-82.39	-2,836.84	-10,065.27	2,607.26	2,310.85	296.41	8.796		
18,300.00	7,799.00	7,587.30	7,349.99	275.37	31.68	-83.45	-2,838.84	-10,099.35	2,595.72	2,294.27	301.44	8.611		
18,400.00	7,799.00	7,649.41	7,400.67	278.04	32.27	-84.58	-2,840.86	-10,135.18	2,586.63	2,280.33	306.30	8.445		
18,464.45	7,799.00	7,684.80	7,429.56	279.17	32.61	-85.22	-2,841.98	-10,155.59	2,582.10	2,273.43	308.66	8.365 CC, ES, SF		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 6-T5S-R64W - EXIST HZ STATE CHALLENGER 5-65 2-3 3BYH LATERAL A - LATERAL B - LATE		Offset Site Error:		0.00 usft	
Survey Program: 26-MWD OWSG, 7882-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)							
0.00	0.00	0.00	0.00	0.00	0.00	-106.76	-2,764.93	-9,181.87	9,590.39									
100.00	100.00	0.00	0.00	0.14	0.00	-106.76	-2,764.93	-9,181.87	9,589.30	9,589.16	0.14	N/A						
160.94	160.94	6.23	6.23	0.35	0.00	-106.76	-2,764.93	-9,181.87	9,589.14	9,588.79	0.36	N/A						
200.00	200.00	42.55	42.55	0.49	0.06	-106.76	-2,764.93	-9,181.87	9,589.14	9,588.59	0.56	N/A						
300.00	299.98	127.65	127.65	0.85	0.36	-166.42	-2,764.93	-9,181.97	9,590.94	9,589.73	1.21	7,894.304						
400.00	399.84	218.35	218.35	1.21	0.69	-166.40	-2,764.93	-9,182.19	9,596.26	9,594.36	1.90	5,050.190						
500.00	499.45	327.40	327.40	1.58	1.07	-166.38	-2,764.99	-9,182.45	9,604.98	9,602.33	2.65	3,621.041						
600.00	598.75	448.37	448.36	1.97	1.49	-166.37	-2,765.26	-9,182.42	9,616.52	9,613.08	3.44	2,796.325						
700.00	697.98	559.19	559.19	2.37	1.87	-166.39	-2,765.47	-9,182.25	9,628.42	9,624.24	4.18	2,304.240						
800.00	797.22	662.41	662.41	2.77	2.23	-166.41	-2,765.51	-9,182.02	9,640.22	9,635.32	4.90	1,968.981						
900.00	896.46	780.01	780.01	3.17	2.64	-166.43	-2,765.44	-9,181.65	9,651.89	9,646.22	5.67	1,703.044						
1,000.00	995.69	848.99	848.98	3.58	2.88	-166.44	-2,765.09	-9,181.58	9,663.65	9,657.38	6.27	1,541.063						
1,100.00	1,094.93	933.76	933.76	3.98	3.17	-166.45	-2,764.50	-9,181.77	9,675.66	9,668.73	6.93	1,396.180						
1,200.00	1,194.16	1,030.89	1,030.88	4.39	3.51	-166.46	-2,764.09	-9,181.98	9,687.74	9,680.11	7.63	1,268.930						
1,300.00	1,293.40	1,134.97	1,134.97	4.80	3.88	-166.48	-2,763.88	-9,182.12	9,699.81	9,691.45	8.37	1,159.480						
1,400.00	1,392.64	1,216.45	1,216.45	5.21	4.16	-166.49	-2,763.79	-9,182.25	9,711.94	9,702.92	9.02	1,076.943						
1,500.00	1,491.87	1,311.95	1,311.94	5.62	4.50	-166.51	-2,763.69	-9,182.53	9,724.19	9,714.47	9.72	1,000.354						
1,600.00	1,591.11	1,424.43	1,424.43	6.03	4.90	-166.53	-2,763.61	-9,182.79	9,736.39	9,725.90	10.49	928.596						
1,700.00	1,690.34	1,507.13	1,507.12	6.44	5.19	-166.54	-2,763.50	-9,183.02	9,748.62	9,737.48	11.14	874.783						
1,800.00	1,789.58	1,600.32	1,600.31	6.85	5.52	-166.55	-2,763.29	-9,183.40	9,760.95	9,749.11	11.84	824.334						
1,900.00	1,888.82	1,694.95	1,694.94	7.26	5.86	-166.57	-2,763.19	-9,183.81	9,773.33	9,760.79	12.54	779.186						
2,000.00	1,988.05	1,794.61	1,794.60	7.67	6.21	-166.59	-2,763.26	-9,184.21	9,785.73	9,772.47	13.26	737.844						
2,100.00	2,087.29	1,890.55	1,890.54	8.08	6.55	-166.60	-2,763.32	-9,184.58	9,798.13	9,784.16	13.97	701.413						
2,200.00	2,186.52	1,972.88	1,972.86	8.49	6.84	-166.62	-2,763.44	-9,184.99	9,810.65	9,796.03	14.63	670.737						
2,300.00	2,285.76	2,065.21	2,065.19	8.90	7.17	-166.63	-2,763.61	-9,185.55	9,823.29	9,807.97	15.32	641.191						
2,400.00	2,385.00	2,156.81	2,156.80	9.31	7.49	-166.65	-2,763.83	-9,186.17	9,836.01	9,819.99	16.01	614.300						
2,500.00	2,484.23	2,260.87	2,260.85	9.72	7.86	-166.66	-2,764.08	-9,186.89	9,848.75	9,832.00	16.75	588.035						
2,600.00	2,583.47	2,423.72	2,423.70	10.13	8.44	-166.69	-2,764.28	-9,187.37	9,861.04	9,843.34	17.70	557.228						
2,700.00	2,682.70	2,535.03	2,535.01	10.54	8.82	-166.71	-2,764.27	-9,187.36	9,873.04	9,854.59	18.45	535.109						
2,800.00	2,781.94	2,640.71	2,640.69	10.95	9.18	-166.73	-2,764.23	-9,187.25	9,884.94	9,865.76	19.18	515.405						
2,900.00	2,881.18	2,729.30	2,729.28	11.36	9.49	-166.74	-2,764.24	-9,187.16	9,896.86	9,877.01	19.85	498.589						
3,000.00	2,980.41	2,825.61	2,825.58	11.77	9.82	-166.76	-2,764.25	-9,187.16	9,908.88	9,888.33	20.55	482.185						
3,100.00	3,079.65	2,927.21	2,927.19	12.19	10.17	-166.77	-2,764.26	-9,187.14	9,920.88	9,899.61	21.27	466.438						
3,200.00	3,178.88	3,037.81	3,024.17	12.60	10.56	-166.79	-2,764.24	-9,187.14	9,932.88	9,910.86	22.02	451.030						
3,300.00	3,278.12	3,123.43	3,123.41	13.01	10.86	-166.81	-2,764.24	-9,187.14	9,944.90	9,922.21	22.69	438.297						
3,400.00	3,377.36	3,211.83	3,211.81	13.42	11.17	-166.82	-2,764.24	-9,187.19	9,956.97	9,933.60	23.37	426.104						
3,500.00	3,476.59	3,323.04	3,323.02	13.83	11.56	-166.84	-2,764.24	-9,187.25	9,969.05	9,944.92	24.13	413.174						
3,600.00	3,575.83	3,429.59	3,429.57	14.24	11.93	-166.86	-2,764.26	-9,187.17	9,981.00	9,956.14	24.86	401.415						
3,700.00	3,675.06	3,520.75	3,520.73	14.65	12.24	-166.87	-2,764.26	-9,187.14	9,992.98	9,967.44	25.55	391.148						
8,400.00	7,799.00	5,771.00	5,766.98	33.13	20.11	-61.57	-2,772.84	-9,246.28	9,925.53	9,877.69	47.85	207.432						
8,500.00	7,799.00	5,771.00	5,766.98	34.37	20.11	-61.57	-2,772.84	-9,246.28	9,833.84	9,785.73	48.12	204.374						
8,600.00	7,799.00	5,771.00	5,766.98	35.78	20.11	-61.57	-2,772.84	-9,246.28	9,742.31	9,693.89	48.42	201.190						
8,700.00	7,799.00	5,771.00	5,766.98	37.33	20.11	-61.57	-2,772.84	-9,246.28	9,650.95	9,602.18	48.77	197.887						
8,800.00	7,799.00	5,771.00	5,766.98	39.00	20.11	-61.57	-2,772.84	-9,246.28	9,559.77	9,510.61	49.16	194.474						
8,900.00	7,799.00	5,771.00	5,766.98	40.79	20.11	-61.57	-2,772.84	-9,246.28	9,468.76	9,419.17	49.59	190.958						
9,000.00	7,799.00	5,771.00	5,766.98	42.67	20.11	-61.57	-2,772.84	-9,246.28	9,377.93	9,327.88	50.06	187.350						
9,100.00	7,799.00	5,771.00	5,766.98	44.63	20.11	-61.57	-2,772.84	-9,246.28	9,287.29	9,236.73	50.57	183.657						
9,200.00	7,799.00	5,771.00	5,766.98	46.66	20.11	-61.57	-2,772.84	-9,246.28	9,196.85	9,145.73	51.12	179.892						
9,300.00	7,799.00	5,771.00	5,766.98	48.76	20.11	-61.57	-2,772.84	-9,246.28	9,106.61	9,054.88	51.72	176.064						
9,400.00	7,799.00	5,771.00	5,766.98	50.92	20.11	-61.57	-2,772.84	-9,246.28	9,016.57	8,964.20	52.37	172.185						
9,500.00	7,799.00	5,804.34	5,799.55	53.12	20.24	-61.99	-2,773.31	-9,253.34	8,926.52	8,873.32	53.21	167.766						
9,600.00	7,799.00	5,810.56	5,805.63	55.37	20.26	-62.07	-2,773.39	-9,254.70	8,836.83	8,782.86	53.97	163.742						

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 26-MWD OWSG, 7882-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	7,799.00	5,816.90	5,811.81	57.65	20.28	-62.15	-2,773.46	-9,256.10	8,747.34	8,692.57	54.77	159.703		
9,800.00	7,799.00	5,823.36	5,818.11	59.97	20.31	-62.23	-2,773.54	-9,257.53	8,658.06	8,602.44	55.62	155.659		
9,900.00	7,799.00	5,829.94	5,824.53	62.32	20.33	-62.31	-2,773.61	-9,259.01	8,569.01	8,512.49	56.52	151.620		
10,000.00	7,799.00	5,865.00	5,858.63	64.69	20.46	-62.76	-2,773.95	-9,267.12	8,480.34	8,422.75	57.59	147.256		
10,100.00	7,799.00	5,865.00	5,858.63	67.09	20.46	-62.76	-2,773.95	-9,267.12	8,391.67	8,333.13	58.54	143.346		
10,200.00	7,799.00	5,865.00	5,858.63	69.51	20.46	-62.76	-2,773.95	-9,267.12	8,303.27	8,243.73	59.54	139.460		
10,300.00	7,799.00	5,865.00	5,858.63	71.95	20.46	-62.76	-2,773.95	-9,267.12	8,215.13	8,154.55	60.58	135.607		
10,400.00	7,799.00	5,865.00	5,858.63	74.41	20.46	-62.76	-2,773.95	-9,267.12	8,127.26	8,065.59	61.67	131.793		
10,500.00	7,799.00	5,865.00	5,858.63	76.89	20.46	-62.76	-2,773.95	-9,267.12	8,039.68	7,976.88	62.80	128.023		
10,600.00	7,799.00	5,865.00	5,858.63	79.37	20.46	-62.76	-2,773.95	-9,267.12	7,952.39	7,888.42	63.98	124.304		
10,700.00	7,799.00	5,865.00	5,858.63	81.87	20.46	-62.76	-2,773.95	-9,267.12	7,865.40	7,800.21	65.20	120.639		
10,800.00	7,799.00	5,865.00	5,858.63	84.39	20.46	-62.76	-2,773.95	-9,267.12	7,778.73	7,712.27	66.47	117.034		
10,900.00	7,799.00	5,865.00	5,858.63	86.91	20.46	-62.76	-2,773.95	-9,267.12	7,692.38	7,624.60	67.78	113.492		
11,000.00	7,799.00	5,865.00	5,858.63	89.44	20.46	-62.76	-2,773.95	-9,267.12	7,606.36	7,537.23	69.14	110.015		
11,100.00	7,799.00	5,901.90	5,894.41	91.99	20.60	-63.23	-2,774.40	-9,276.13	7,520.29	7,449.57	70.72	106.332		
11,200.00	7,799.00	5,907.57	5,899.90	94.54	20.62	-63.31	-2,774.49	-9,277.57	7,434.84	7,362.64	72.21	102.966		
11,300.00	7,799.00	5,913.35	5,905.48	97.10	20.64	-63.38	-2,774.59	-9,279.04	7,349.74	7,276.01	73.74	99.675		
11,400.00	7,799.00	5,919.23	5,911.16	99.66	20.67	-63.46	-2,774.70	-9,280.56	7,265.00	7,189.68	75.32	96.460		
11,500.00	7,799.00	5,959.00	5,949.47	102.24	20.82	-63.97	-2,775.60	-9,291.18	7,180.97	7,103.86	77.11	93.126		
11,600.00	7,799.00	5,959.00	5,949.47	104.82	20.82	-63.97	-2,775.60	-9,291.18	7,096.88	7,018.12	78.76	90.108		
11,700.00	7,799.00	5,959.00	5,949.47	107.40	20.82	-63.97	-2,775.60	-9,291.18	7,013.20	6,932.74	80.46	87.164		
11,800.00	7,799.00	5,959.00	5,949.47	109.99	20.82	-63.97	-2,775.60	-9,291.18	6,929.95	6,847.74	82.21	84.295		
11,900.00	7,799.00	5,959.00	5,949.47	112.58	20.82	-63.66	-2,775.60	-9,291.18	6,847.12	6,763.11	84.01	81.504		
12,000.00	7,799.00	5,959.00	5,949.47	115.17	20.82	-61.52	-2,775.60	-9,291.18	6,763.07	6,677.32	85.75	78.868		
12,100.00	7,799.00	5,959.00	5,949.47	117.74	20.82	-59.01	-2,775.60	-9,291.18	6,677.01	6,589.65	87.37	76.424		
12,200.00	7,799.00	5,959.00	5,949.47	120.27	20.82	-56.04	-2,775.60	-9,291.18	6,589.11	6,500.27	88.85	74.164		
12,300.00	7,799.00	5,959.00	5,949.47	122.76	20.82	-52.51	-2,775.60	-9,291.18	6,499.53	6,409.36	90.18	72.076		
12,400.00	7,799.00	5,959.00	5,949.47	125.19	20.82	-48.29	-2,775.60	-9,291.18	6,408.45	6,317.11	91.35	70.154		
12,500.00	7,799.00	5,994.53	5,983.57	127.57	20.96	-43.79	-2,776.74	-9,301.13	6,315.71	6,223.17	92.54	68.248		
12,600.00	7,799.00	6,002.39	5,991.09	129.88	20.99	-40.52	-2,777.05	-9,303.38	6,222.14	6,128.71	93.43	66.594		
12,700.00	7,799.00	6,010.40	5,998.75	132.19	21.02	-40.64	-2,777.38	-9,305.69	6,128.53	6,034.21	94.32	64.977		
12,800.00	7,799.00	6,018.58	6,006.57	134.50	21.05	-40.77	-2,777.74	-9,308.06	6,035.08	5,939.85	95.23	63.373		
12,900.00	7,799.00	6,054.00	6,040.35	136.83	21.19	-41.33	-2,779.54	-9,318.57	5,942.03	5,845.71	96.32	61.691		
13,000.00	7,799.00	6,054.00	6,040.35	139.16	21.19	-41.33	-2,779.54	-9,318.57	5,848.82	5,751.58	97.25	60.145		
13,100.00	7,799.00	6,054.00	6,040.35	141.50	21.19	-41.33	-2,779.54	-9,318.57	5,755.84	5,657.64	98.20	58.612		
13,200.00	7,799.00	6,054.00	6,040.35	143.84	21.19	-41.33	-2,779.54	-9,318.57	5,663.11	5,563.91	99.19	57.093		
13,300.00	7,799.00	6,054.00	6,040.35	146.19	21.19	-41.33	-2,779.54	-9,318.57	5,570.62	5,470.41	100.21	55.589		
13,400.00	7,799.00	6,054.00	6,040.35	148.55	21.19	-41.33	-2,779.54	-9,318.57	5,478.39	5,377.13	101.27	54.100		
13,500.00	7,799.00	6,084.55	6,069.37	150.92	21.32	-41.82	-2,781.30	-9,327.94	5,386.20	5,283.67	102.53	52.534		
13,600.00	7,799.00	6,095.60	6,079.84	153.29	21.36	-42.00	-2,781.96	-9,331.41	5,294.33	5,190.61	103.72	51.046		
13,700.00	7,799.00	6,106.93	6,090.56	155.66	21.41	-42.18	-2,782.66	-9,335.01	5,202.69	5,097.74	104.95	49.574		
13,800.00	7,799.00	6,118.54	6,101.53	158.04	21.45	-42.38	-2,783.38	-9,338.74	5,111.30	5,005.07	106.22	48.119		
13,900.00	7,799.00	6,148.00	6,129.30	160.43	21.58	-42.87	-2,785.27	-9,348.40	5,020.24	4,912.60	107.64	46.640		
14,000.00	7,799.00	6,148.00	6,129.30	162.82	21.58	-42.87	-2,785.27	-9,348.40	4,929.28	4,820.34	108.93	45.250		
14,100.00	7,799.00	6,148.00	6,129.30	165.21	21.58	-42.87	-2,785.27	-9,348.40	4,838.68	4,728.40	110.28	43.877		
14,200.00	7,799.00	6,148.00	6,129.30	167.61	21.58	-42.87	-2,785.27	-9,348.40	4,748.45	4,636.78	111.67	42.523		
14,300.00	7,799.00	6,148.00	6,129.30	170.02	21.58	-42.87	-2,785.27	-9,348.40	4,658.63	4,545.52	113.11	41.188		
14,400.00	7,799.00	6,186.82	6,165.70	172.42	21.74	-43.53	-2,787.94	-9,361.63	4,568.71	4,453.88	114.83	39.787		
14,500.00	7,799.00	6,198.42	6,176.52	174.84	21.79	-43.73	-2,788.79	-9,365.70	4,479.41	4,362.96	116.45	38.466		
14,600.00	7,799.00	6,210.38	6,187.66	177.28	21.84	-47.36	-2,789.69	-9,369.95	4,391.13	4,272.89	118.24	37.138		
14,700.00	7,799.00	6,243.00	6,217.93	179.78	21.98	-51.25	-2,792.28	-9,381.85	4,305.31	4,184.81	120.50	35.730		
14,800.00	7,799.00	6,243.00	6,217.93	182.34	21.98	-54.00	-2,792.28	-9,381.85	4,221.94	4,099.01	122.93	34.345		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											SEC 6-T5S-R64W - EXIST HZ STATE CHALLENGER 5-65 2-3 3BYH LATERAL A - LATERAL B - LATE		Offset Site Error: 0.00 usft	
Survey Program: 26-MWD OWSG, 7882-MWD OWSG											Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,900.00	7,799.00	6,243.00	6,217.93	184.94	21.98	-56.30	-2,792.28	-9,381.85	4,141.79	4,016.06	125.72	32.944		
15,000.00	7,799.00	6,243.00	6,217.93	187.56	21.98	-58.23	-2,792.28	-9,381.85	4,065.27	3,936.38	128.89	31.540		
15,100.00	7,799.00	6,281.70	6,253.58	190.21	22.16	-60.51	-2,795.36	-9,396.60	3,992.37	3,859.69	132.68	30.090		
15,200.00	7,799.00	6,298.67	6,269.11	192.85	22.24	-61.41	-2,796.65	-9,403.31	3,923.39	3,786.73	136.66	28.710		
15,300.00	7,799.00	6,337.00	6,303.97	195.50	22.42	-62.05	-2,799.42	-9,419.00	3,856.02	3,715.13	140.89	27.369		
15,400.00	7,799.00	6,337.00	6,303.97	198.16	22.42	-62.05	-2,799.42	-9,419.00	3,789.65	3,644.63	145.02	26.132		
15,500.00	7,799.00	6,364.68	6,328.98	200.81	22.55	-62.51	-2,801.23	-9,430.74	3,724.64	3,575.22	149.43	24.926		
15,600.00	7,799.00	6,397.49	6,358.45	203.46	22.71	-63.05	-2,803.09	-9,445.02	3,660.84	3,506.88	153.96	23.777		
15,700.00	7,799.00	6,432.00	6,389.27	206.11	22.88	-63.62	-2,804.70	-9,460.47	3,598.28	3,439.66	158.61	22.686		
15,800.00	7,799.00	6,460.14	6,414.25	208.77	23.03	-64.09	-2,805.83	-9,473.36	3,537.03	3,373.69	163.34	21.654		
15,900.00	7,799.00	6,489.17	6,439.91	211.43	23.19	-64.57	-2,806.94	-9,486.91	3,477.20	3,309.01	168.18	20.675		
16,000.00	7,799.00	6,526.00	6,472.26	214.08	23.38	-65.18	-2,808.25	-9,504.45	3,418.85	3,245.68	173.16	19.743		
16,100.00	7,799.00	6,549.12	6,492.46	216.74	23.51	-65.57	-2,809.01	-9,515.68	3,362.01	3,183.81	178.19	18.867		
16,200.00	7,799.00	6,579.74	6,519.05	219.40	23.69	-66.07	-2,809.96	-9,530.82	3,306.78	3,123.43	183.36	18.035		
16,300.00	7,799.00	6,621.00	6,554.62	222.06	23.92	-66.76	-2,811.13	-9,551.70	3,253.24	3,064.58	188.65	17.245		
16,400.00	7,799.00	6,646.94	6,576.84	224.72	24.08	-67.19	-2,811.81	-9,565.08	3,201.34	3,007.36	193.98	16.503		
16,500.00	7,799.00	6,684.21	6,608.62	227.38	24.31	-67.81	-2,812.76	-9,584.53	3,151.19	2,951.75	199.44	15.800		
16,600.00	7,799.00	6,715.00	6,634.73	230.04	24.50	-68.32	-2,813.53	-9,600.82	3,102.82	2,897.88	204.95	15.140		
16,700.00	7,799.00	6,760.33	6,672.95	232.70	24.81	-69.08	-2,814.62	-9,625.17	3,056.27	2,845.67	210.60	14.512		
16,800.00	7,799.00	6,799.55	6,705.79	235.36	25.07	-69.73	-2,815.55	-9,646.59	3,011.64	2,795.37	216.28	13.925		
16,900.00	7,799.00	6,836.62	6,736.62	238.03	25.33	-70.35	-2,816.42	-9,667.16	2,969.00	2,747.00	222.00	13.374		
17,000.00	7,799.00	6,873.66	6,767.20	240.69	25.59	-70.97	-2,817.33	-9,688.04	2,928.44	2,700.69	227.75	12.858		
17,100.00	7,799.00	6,915.37	6,801.36	243.36	25.89	-71.67	-2,818.40	-9,711.94	2,890.04	2,656.49	233.55	12.374		
17,200.00	7,799.00	6,971.06	6,846.86	246.02	26.32	-72.61	-2,819.88	-9,744.02	2,853.61	2,614.15	239.46	11.917		
17,300.00	7,799.00	7,025.76	6,891.54	248.69	26.75	-73.54	-2,821.36	-9,775.54	2,819.12	2,573.74	245.38	11.489		
17,400.00	7,799.00	7,079.41	6,935.35	251.35	27.17	-74.46	-2,822.89	-9,806.47	2,786.68	2,535.38	251.29	11.089		
17,500.00	7,799.00	7,137.38	6,982.68	254.02	27.65	-75.46	-2,824.59	-9,839.90	2,756.33	2,499.10	257.23	10.716		
17,600.00	7,799.00	7,196.88	7,031.24	256.69	28.15	-76.49	-2,826.28	-9,874.24	2,728.06	2,464.93	263.13	10.368		
17,700.00	7,799.00	7,250.91	7,075.35	259.35	28.61	-77.44	-2,827.85	-9,905.41	2,701.99	2,433.04	268.95	10.047		
17,800.00	7,799.00	8,922.23	7,907.19	262.02	44.74	-97.45	-2,285.08	-11,033.64	2,647.89	2,414.86	233.03	11.363		
17,900.00	7,799.00	8,961.00	7,907.88	264.69	45.35	-97.56	-2,260.32	-11,063.46	2,584.33	2,345.93	238.40	10.840		
18,000.00	7,799.00	8,961.00	7,907.88	267.36	45.35	-97.56	-2,260.32	-11,063.46	2,522.38	2,276.36	246.03	10.253		
18,100.00	7,799.00	9,007.61	7,908.74	270.03	46.15	-97.69	-2,231.61	-11,100.17	2,461.65	2,210.35	251.31	9.795		
18,200.00	7,799.00	9,056.00	7,909.65	272.70	46.98	-97.83	-2,203.23	-11,139.35	2,403.13	2,146.52	256.61	9.365		
18,300.00	7,799.00	9,056.00	7,909.65	275.37	46.98	-97.83	-2,203.23	-11,139.35	2,345.95	2,081.23	264.72	8.862		
18,400.00	7,799.00	9,091.63	7,910.32	278.04	47.64	-97.93	-2,183.34	-11,168.90	2,290.89	2,019.87	271.02	8.453		
18,464.45	7,799.00	9,110.05	7,910.68	279.17	47.98	-97.98	-2,173.41	-11,184.41	2,256.52	1,981.45	275.07	8.203 CC, ES, SF		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - EXIST HZ STATE ELBERT 1H - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 2215-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	12,263.00	7,816.95	0.00	129.03	-87.03	293.80	-5,669.40	9,777.56					
100.00	100.00	12,263.00	7,816.95	0.14	129.03	-87.03	293.80	-5,669.40	9,696.31	9,656.52	39.79	243.665		
200.00	200.00	12,263.00	7,816.95	0.49	129.03	-87.03	293.80	-5,669.40	9,615.42	9,575.65	39.78	241.740		
300.00	299.98	12,263.00	7,816.95	0.85	129.03	-148.12	293.80	-5,669.40	9,535.78	9,496.02	39.76	239.814		
400.00	399.84	12,263.00	7,816.95	1.21	129.03	-149.39	293.80	-5,669.40	9,458.37	9,418.62	39.76	237.914		
500.00	499.45	12,263.00	7,816.95	1.58	129.03	-150.53	293.80	-5,669.40	9,383.35	9,343.58	39.77	235.912		
600.00	598.75	12,263.00	7,816.95	1.97	129.03	-151.10	293.80	-5,669.40	9,310.65	9,270.83	39.82	233.807		
700.00	697.98	12,263.00	7,816.95	2.37	129.03	-151.10	293.80	-5,669.40	9,238.77	9,198.83	39.93	231.348		
800.00	797.22	12,263.00	7,816.95	2.77	129.03	-151.10	293.80	-5,669.40	9,167.41	9,127.35	40.07	228.799		
900.00	896.46	12,263.00	7,816.95	3.17	129.03	-151.10	293.80	-5,669.40	9,096.60	9,056.38	40.22	226.187		
1,000.00	995.69	12,263.00	7,816.95	3.58	129.03	-151.10	293.80	-5,669.40	9,026.34	8,985.95	40.38	223.532		
1,100.00	1,094.93	12,263.00	7,816.95	3.98	129.03	-151.10	293.80	-5,669.40	8,956.64	8,916.08	40.55	220.852		
1,200.00	1,194.16	12,263.00	7,816.95	4.39	129.03	-151.10	293.80	-5,669.40	8,887.52	8,846.78	40.74	218.158		
1,300.00	1,293.40	12,263.00	7,816.95	4.80	129.03	-151.10	293.80	-5,669.40	8,818.99	8,778.06	40.93	215.462		
1,400.00	1,392.64	12,263.00	7,816.95	5.21	129.03	-151.10	293.80	-5,669.40	8,751.07	8,709.94	41.13	212.770		
1,500.00	1,491.87	12,263.00	7,816.95	5.62	129.03	-151.10	293.80	-5,669.40	8,683.77	8,642.44	41.33	210.089		
1,600.00	1,591.11	12,263.00	7,816.95	6.03	129.03	-151.10	293.80	-5,669.40	8,617.11	8,575.56	41.54	207.425		
1,700.00	1,690.34	12,263.00	7,816.95	6.44	129.03	-151.10	293.80	-5,669.40	8,551.09	8,509.33	41.76	204.780		
1,800.00	1,789.58	12,263.00	7,816.95	6.85	129.03	-151.10	293.80	-5,669.40	8,485.74	8,443.77	41.98	202.159		
1,900.00	1,888.82	12,263.00	7,816.95	7.26	129.03	-151.10	293.80	-5,669.40	8,421.07	8,378.87	42.20	199.563		
2,000.00	1,988.05	12,263.00	7,816.95	7.67	129.03	-151.10	293.80	-5,669.40	8,357.10	8,314.68	42.42	196.995		
2,100.00	2,087.29	12,263.00	7,816.95	8.08	129.03	-151.10	293.80	-5,669.40	8,293.84	8,251.19	42.65	194.458		
2,200.00	2,186.52	12,263.00	7,816.95	8.49	129.03	-151.10	293.80	-5,669.40	8,231.30	8,188.42	42.88	191.951		
2,300.00	2,285.76	12,263.00	7,816.95	8.90	129.03	-151.10	293.80	-5,669.40	8,169.52	8,126.40	43.12	189.478		
2,400.00	2,385.00	12,263.00	7,816.95	9.31	129.03	-151.10	293.80	-5,669.40	8,108.49	8,065.14	43.35	187.038		
2,500.00	2,484.23	12,263.00	7,816.95	9.72	129.03	-151.10	293.80	-5,669.40	8,048.25	8,004.66	43.59	184.633		
2,600.00	2,583.47	12,263.00	7,816.95	10.13	129.03	-151.10	293.80	-5,669.40	7,988.80	7,944.97	43.83	182.264		
2,700.00	2,682.70	12,263.00	7,816.95	10.54	129.03	-151.10	293.80	-5,669.40	7,930.17	7,886.09	44.07	179.931		
2,800.00	2,781.94	12,263.00	7,816.95	10.95	129.03	-151.10	293.80	-5,669.40	7,872.37	7,828.05	44.32	177.635		
2,900.00	2,881.18	12,263.00	7,816.95	11.36	129.03	-151.10	293.80	-5,669.40	7,815.42	7,770.86	44.56	175.378		
3,000.00	2,980.41	12,263.00	7,816.95	11.77	129.03	-151.10	293.80	-5,669.40	7,759.35	7,714.53	44.81	173.158		
3,100.00	3,079.65	12,263.00	7,816.95	12.19	129.03	-151.10	293.80	-5,669.40	7,704.16	7,659.10	45.06	170.978		
3,200.00	3,178.88	12,263.00	7,816.95	12.60	129.03	-151.10	293.80	-5,669.40	7,649.88	7,604.57	45.31	168.837		
3,300.00	3,278.12	12,263.00	7,816.95	13.01	129.03	-151.10	293.80	-5,669.40	7,596.54	7,550.98	45.56	166.735		
3,400.00	3,377.36	12,263.00	7,816.95	13.42	129.03	-151.10	293.80	-5,669.40	7,544.14	7,498.32	45.81	164.674		
3,500.00	3,476.59	12,263.00	7,816.95	13.83	129.03	-151.10	293.80	-5,669.40	7,492.70	7,446.64	46.07	162.653		
3,600.00	3,575.83	12,263.00	7,816.95	14.24	129.03	-151.10	293.80	-5,669.40	7,442.26	7,395.94	46.32	160.673		
3,700.00	3,675.06	12,263.00	7,816.95	14.65	129.03	-151.10	293.80	-5,669.40	7,392.83	7,346.25	46.57	158.734		
3,800.00	3,774.30	12,263.00	7,816.95	15.06	129.03	-151.10	293.80	-5,669.40	7,344.42	7,297.59	46.83	156.836		
3,900.00	3,873.53	12,263.00	7,816.95	15.47	129.03	-151.10	293.80	-5,669.40	7,297.07	7,249.98	47.08	154.979		
4,000.00	3,972.77	12,263.00	7,816.95	15.89	129.03	-151.10	293.80	-5,669.40	7,250.78	7,203.44	47.34	153.165		
4,100.00	4,072.01	12,263.00	7,816.95	16.30	129.03	-151.10	293.80	-5,669.40	7,205.58	7,157.99	47.60	151.392		
4,200.00	4,171.24	12,263.00	7,816.95	16.71	129.03	-151.10	293.80	-5,669.40	7,161.50	7,113.65	47.85	149.661		
4,300.00	4,270.48	12,263.00	7,816.95	17.12	129.03	-151.10	293.80	-5,669.40	7,118.55	7,070.44	48.11	147.972		
4,400.00	4,369.71	12,263.00	7,816.95	17.53	129.03	-151.10	293.80	-5,669.40	7,076.75	7,028.38	48.36	146.325		
4,500.00	4,468.95	12,263.00	7,816.95	17.94	129.03	-151.10	293.80	-5,669.40	7,036.12	6,987.50	48.62	144.721		
4,600.00	4,568.19	12,263.00	7,816.95	18.35	129.03	-151.10	293.80	-5,669.40	6,996.69	6,947.81	48.87	143.159		
4,700.00	4,667.42	12,263.00	7,816.95	18.76	129.03	-151.10	293.80	-5,669.40	6,958.47	6,909.34	49.13	141.640		
4,800.00	4,766.66	12,263.00	7,816.95	19.18	129.03	-151.10	293.80	-5,669.40	6,921.48	6,872.10	49.38	140.162		
4,900.00	4,865.89	12,263.00	7,816.95	19.59	129.03	-151.10	293.80	-5,669.40	6,885.75	6,836.11	49.64	138.727		
5,000.00	4,965.13	12,263.00	7,816.95	20.00	129.03	-151.10	293.80	-5,669.40	6,851.29	6,801.40	49.89	137.335		
5,100.00	5,064.37	12,263.00	7,816.95	20.41	129.03	-151.10	293.80	-5,669.40	6,818.12	6,767.98	50.14	135.984		

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



# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - EXIST HZ STATE ELBERT 1H - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 2215-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	5,163.60	12,263.00	7,816.95	20.82	129.03	-151.10	293.80	-5,669.40	6,786.27	6,735.88	50.39	134.676		
5,300.00	5,262.84	12,263.00	7,816.95	21.23	129.03	-151.10	293.80	-5,669.40	6,755.74	6,705.10	50.64	133.409		
5,400.00	5,362.07	12,263.00	7,816.95	21.64	129.03	-151.10	293.80	-5,669.40	6,726.57	6,675.68	50.89	132.185		
5,500.00	5,461.31	12,263.00	7,816.95	22.05	129.03	-151.10	293.80	-5,669.40	6,698.76	6,647.62	51.13	131.002		
5,600.00	5,560.55	12,263.00	7,816.95	22.47	129.03	-151.10	293.80	-5,669.40	6,672.33	6,620.95	51.38	129.860		
5,700.00	5,659.78	12,263.00	7,816.95	22.88	129.03	-151.10	293.80	-5,669.40	6,647.30	6,595.68	51.63	128.759		
5,800.00	5,759.02	12,263.00	7,816.95	23.29	129.03	-151.10	293.80	-5,669.40	6,623.69	6,571.82	51.87	127.699		
5,900.00	5,858.25	12,263.00	7,816.95	23.70	129.03	-151.10	293.80	-5,669.40	6,601.51	6,549.39	52.11	126.680		
6,000.00	5,957.49	12,263.00	7,816.95	24.11	129.03	-151.10	293.80	-5,669.40	6,580.77	6,528.42	52.35	125.701		
6,100.00	6,056.73	12,263.00	7,816.95	24.52	129.03	-151.10	293.80	-5,669.40	6,561.49	6,508.90	52.59	124.761		
6,200.00	6,155.96	12,263.00	7,816.95	24.93	129.03	-151.10	293.80	-5,669.40	6,543.68	6,490.85	52.83	123.861		
6,300.00	6,255.20	12,263.00	7,816.95	25.34	129.03	-151.10	293.80	-5,669.40	6,527.36	6,474.29	53.07	123.000		
6,400.00	6,354.43	12,263.00	7,816.95	25.76	129.03	-151.10	293.80	-5,669.40	6,512.53	6,459.23	53.30	122.178		
6,500.00	6,453.67	12,263.00	7,816.95	26.17	129.03	-151.10	293.80	-5,669.40	6,499.21	6,445.67	53.54	121.394		
6,600.00	6,552.91	12,263.00	7,816.95	26.58	129.03	-151.10	293.80	-5,669.40	6,487.40	6,433.63	53.77	120.647		
6,700.00	6,652.14	12,263.00	7,816.95	26.99	129.03	-151.10	293.80	-5,669.40	6,477.11	6,423.11	54.00	119.937		
6,800.00	6,751.38	12,263.00	7,816.95	27.40	129.03	-151.10	293.80	-5,669.40	6,468.35	6,414.12	54.24	119.264		
6,900.00	6,850.61	12,263.00	7,816.95	27.81	129.03	-151.10	293.80	-5,669.40	6,461.13	6,406.67	54.47	118.627		
7,000.00	6,949.85	12,263.00	7,816.95	28.22	129.03	-151.10	293.80	-5,669.40	6,455.45	6,400.76	54.70	118.025		
7,100.00	7,049.09	12,263.00	7,816.95	28.64	129.03	-151.10	293.80	-5,669.40	6,451.32	6,396.39	54.92	117.458		
7,200.00	7,148.32	12,263.00	7,816.95	29.05	129.03	-151.10	293.80	-5,669.40	6,448.73	6,393.58	55.15	116.925		
7,300.00	7,247.89	12,263.00	7,816.95	29.42	129.03	-64.01	293.80	-5,669.40	6,441.99	6,386.62	55.37	116.349		
7,400.00	7,346.79	12,263.00	7,816.95	29.67	129.03	-20.41	293.80	-5,669.40	6,419.87	6,364.33	55.53	115.602		
7,500.00	7,442.07	12,263.00	7,816.95	29.83	129.03	-13.15	293.80	-5,669.40	6,382.56	6,326.90	55.66	114.677		
7,600.00	7,530.81	12,263.00	7,816.95	29.92	129.03	-10.68	293.80	-5,669.40	6,330.94	6,275.20	55.74	113.584		
7,700.00	7,610.33	12,263.00	7,816.95	29.97	129.03	-9.82	293.80	-5,669.40	6,266.25	6,210.47	55.78	112.338		
7,800.00	7,678.21	12,263.00	7,816.95	30.00	129.03	-9.97	293.80	-5,669.40	6,190.09	6,134.30	55.79	110.953		
7,900.00	7,732.39	12,263.00	7,816.95	30.08	129.03	-11.25	293.80	-5,669.40	6,104.37	6,048.60	55.78	109.440		
8,000.00	7,771.23	12,263.00	7,816.95	30.28	129.03	-14.97	293.80	-5,669.40	6,011.37	5,955.61	55.76	107.814		
8,100.00	7,793.53	12,263.00	7,816.95	30.66	129.03	-29.95	293.80	-5,669.40	5,913.62	5,857.88	55.74	106.091		
8,200.00	7,799.00	12,263.00	7,816.95	31.25	129.03	-116.83	293.80	-5,669.40	5,813.93	5,758.18	55.75	104.288		
8,300.00	7,799.00	12,263.00	7,816.95	32.08	129.03	-116.83	293.80	-5,669.40	5,714.12	5,658.35	55.77	102.462		
8,400.00	7,799.00	12,263.00	7,816.95	33.13	129.03	-116.83	293.80	-5,669.40	5,614.32	5,558.53	55.79	100.632		
8,500.00	7,799.00	12,263.00	7,816.95	34.37	129.03	-116.83	293.80	-5,669.40	5,514.53	5,458.71	55.82	98.797		
8,600.00	7,799.00	12,263.00	7,816.95	35.78	129.03	-116.83	293.80	-5,669.40	5,414.75	5,358.90	55.85	96.958		
8,700.00	7,799.00	12,263.00	7,816.95	37.33	129.03	-116.83	293.80	-5,669.40	5,314.97	5,259.09	55.88	95.115		
8,800.00	7,799.00	12,263.00	7,816.95	39.00	129.03	-116.83	293.80	-5,669.40	5,215.20	5,159.28	55.92	93.267		
8,900.00	7,799.00	12,263.00	7,816.95	40.79	129.03	-116.83	293.80	-5,669.40	5,115.44	5,059.48	55.96	91.415		
9,000.00	7,799.00	12,263.00	7,816.95	42.67	129.03	-116.83	293.80	-5,669.40	5,015.69	4,959.69	56.00	89.559		
9,100.00	7,799.00	12,263.00	7,816.95	44.63	129.03	-116.83	293.80	-5,669.40	4,915.95	4,859.90	56.06	87.698		
9,200.00	7,799.00	12,263.00	7,816.95	46.66	129.03	-116.83	293.80	-5,669.40	4,816.22	4,760.11	56.11	85.832		
9,300.00	7,799.00	12,263.00	7,816.95	48.76	129.03	-116.83	293.80	-5,669.40	4,716.51	4,660.33	56.17	83.961		
9,400.00	7,799.00	12,263.00	7,816.95	50.92	129.03	-116.83	293.80	-5,669.40	4,616.80	4,560.56	56.24	82.086		
9,500.00	7,799.00	12,263.00	7,816.95	53.12	129.03	-116.83	293.80	-5,669.40	4,517.11	4,460.79	56.32	80.206		
9,600.00	7,799.00	12,263.00	7,816.95	55.37	129.03	-116.83	293.80	-5,669.40	4,417.43	4,361.03	56.40	78.320		
9,700.00	7,799.00	12,263.00	7,816.95	57.65	129.03	-116.83	293.80	-5,669.40	4,317.77	4,261.27	56.49	76.430		
9,800.00	7,799.00	12,263.00	7,816.95	59.97	129.03	-116.83	293.80	-5,669.40	4,218.12	4,161.53	56.59	74.533		
9,900.00	7,799.00	12,263.00	7,816.95	62.32	129.03	-116.83	293.80	-5,669.40	4,118.49	4,061.79	56.70	72.632		
10,000.00	7,799.00	12,263.00	7,816.95	64.69	129.03	-116.83	293.80	-5,669.40	4,018.88	3,962.05	56.82	70.724		
10,100.00	7,799.00	12,263.00	7,816.95	67.09	129.03	-116.83	293.80	-5,669.40	3,919.29	3,862.33	56.96	68.811		
10,200.00	7,799.00	12,263.00	7,816.95	69.51	129.03	-116.83	293.80	-5,669.40	3,819.72	3,762.61	57.10	66.891		
10,300.00	7,799.00	12,263.00	7,816.95	71.95	129.03	-116.83	293.80	-5,669.40	3,720.17	3,662.90	57.26	64.965		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - EXIST HZ STATE ELBERT 1H - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 2215-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	7,799.00	12,263.00	7,816.95	74.41	129.03	-116.83	293.80	-5,669.40	3,620.65	3,563.20	57.44	63.032		
10,500.00	7,799.00	12,263.00	7,816.95	76.89	129.03	-116.83	293.80	-5,669.40	3,521.15	3,463.51	57.64	61.092		
10,600.00	7,799.00	12,263.00	7,816.95	79.37	129.03	-116.83	293.80	-5,669.40	3,421.68	3,363.83	57.85	59.145		
10,700.00	7,799.00	12,263.00	7,816.95	81.87	129.03	-116.83	293.80	-5,669.40	3,322.25	3,264.16	58.09	57.191		
10,800.00	7,799.00	12,263.00	7,816.95	84.39	129.03	-116.83	293.80	-5,669.40	3,222.85	3,164.50	58.35	55.228		
10,900.00	7,799.00	12,263.00	7,816.95	86.91	129.03	-116.83	293.80	-5,669.40	3,123.49	3,064.84	58.65	53.258		
11,000.00	7,799.00	12,263.00	7,816.95	89.44	129.03	-116.83	293.80	-5,669.40	3,024.17	2,965.20	58.97	51.280		
11,100.00	7,799.00	12,263.00	7,816.95	91.99	129.03	-116.83	293.80	-5,669.40	2,924.90	2,865.56	59.34	49.293		
11,200.00	7,799.00	12,263.00	7,816.95	94.54	129.03	-116.83	293.80	-5,669.40	2,825.68	2,765.94	59.74	47.297		
11,300.00	7,799.00	12,263.00	7,816.95	97.10	129.03	-116.83	293.80	-5,669.40	2,726.51	2,666.32	60.20	45.293		
11,400.00	7,799.00	12,263.00	7,816.95	99.66	129.03	-116.83	293.80	-5,669.40	2,627.41	2,566.71	60.71	43.280		
11,500.00	7,799.00	12,263.00	7,816.95	102.24	129.03	-116.83	293.80	-5,669.40	2,528.38	2,467.10	61.28	41.258		
11,600.00	7,799.00	12,263.00	7,816.95	104.82	129.03	-116.83	293.80	-5,669.40	2,429.43	2,367.50	61.93	39.227		
11,700.00	7,799.00	12,263.00	7,816.95	107.40	129.03	-116.83	293.80	-5,669.40	2,330.57	2,267.90	62.67	37.189		
11,800.00	7,799.00	12,263.00	7,816.95	109.99	129.03	-116.83	293.80	-5,669.40	2,231.81	2,168.31	63.51	35.143		
11,900.00	7,799.00	12,263.00	7,816.95	112.58	129.03	-118.16	293.80	-5,669.40	2,133.16	2,068.70	64.46	33.093		
12,000.00	7,799.00	12,263.00	7,816.95	115.17	129.03	-129.80	293.80	-5,669.40	2,034.18	1,968.86	65.33	31.139		
12,100.00	7,799.00	12,263.00	7,816.95	117.74	129.03	-150.68	293.80	-5,669.40	1,934.78	1,868.85	65.93	29.344		
12,200.00	7,799.00	12,263.00	7,816.95	120.27	129.03	177.34	293.80	-5,669.40	1,835.18	1,768.97	66.21	27.716		
12,300.00	7,799.00	12,263.00	7,816.95	122.76	129.03	148.12	293.80	-5,669.40	1,735.65	1,669.55	66.10	26.257		
12,400.00	7,799.00	12,263.00	7,816.95	125.19	129.03	130.68	293.80	-5,669.40	1,636.50	1,570.95	65.55	24.964		
12,500.00	7,799.00	12,263.00	7,816.95	127.57	129.03	120.92	293.80	-5,669.40	1,538.10	1,473.55	64.55	23.830		
12,600.00	7,799.00	12,263.00	7,816.95	129.88	129.03	117.20	293.80	-5,669.40	1,440.79	1,377.64	63.15	22.814		
12,700.00	7,799.00	12,263.00	7,816.95	132.19	129.03	117.20	293.80	-5,669.40	1,344.08	1,282.31	61.77	21.760		
12,800.00	7,799.00	12,263.00	7,816.95	134.50	129.03	117.20	293.80	-5,669.40	1,247.88	1,187.30	60.57	20.601		
12,900.00	7,799.00	12,263.00	7,816.95	136.83	129.03	117.20	293.80	-5,669.40	1,152.33	1,092.56	59.77	19.280		
13,000.00	7,799.00	12,263.00	7,816.95	139.16	129.03	117.20	293.80	-5,669.40	1,057.60	997.93	59.67	17.724		
13,100.00	7,799.00	12,263.00	7,816.95	141.50	129.03	117.20	293.80	-5,669.40	963.93	903.16	60.77	15.861		
13,200.00	7,799.00	12,263.00	7,816.95	143.84	129.03	117.20	293.80	-5,669.40	871.68	807.88	63.80	13.662		
13,300.00	7,799.00	12,263.00	7,816.95	146.19	129.03	117.20	293.80	-5,669.40	781.34	711.62	69.71	11.208		
13,400.00	7,799.00	12,263.00	7,816.95	148.55	129.03	117.20	293.80	-5,669.40	693.65	613.97	79.68	8.706		
13,500.00	7,799.00	12,263.00	7,816.95	150.92	129.03	117.20	293.80	-5,669.40	609.76	514.78	94.98	6.420		
13,600.00	7,799.00	12,263.00	7,816.95	153.29	129.03	117.20	293.80	-5,669.40	531.47	414.50	116.97	4.544		
13,700.00	7,799.00	12,263.00	7,816.95	155.66	129.03	117.20	293.80	-5,669.40	461.65	314.97	146.68	3.147		
13,800.00	7,799.00	12,263.00	7,816.95	158.04	129.03	117.20	293.80	-5,669.40	404.69	221.18	183.51	2.205		
13,900.00	7,799.00	12,263.00	7,816.95	160.43	129.03	117.20	293.80	-5,669.40	366.65	144.15	222.51	1.648		
13,996.71	7,799.00	12,263.00	7,816.95	162.74	129.03	117.20	293.80	-5,669.40	353.67	101.42	252.24	1.402	Level 3, CC	
14,000.00	7,799.00	12,263.00	7,816.95	162.82	129.03	117.20	293.80	-5,669.40	353.68	100.69	252.99	1.398	Level 3, ES	
14,100.00	7,799.00	12,263.00	7,816.95	165.21	129.03	117.20	293.80	-5,669.40	368.44	102.96	265.49	1.388	Level 3, SF	
14,200.00	7,799.00	12,180.30	7,817.55	167.61	126.85	115.32	295.43	-5,752.08	399.60	130.41	269.19	1.484	Level 3	
14,300.00	7,799.00	12,080.60	7,816.87	170.02	124.23	113.21	297.09	-5,851.77	430.63	157.84	272.79	1.579		
14,400.00	7,799.00	11,983.38	7,814.70	172.42	121.68	111.28	298.17	-5,948.96	461.07	185.23	275.84	1.672		
14,500.00	7,799.00	11,888.44	7,812.63	174.84	119.18	109.65	298.86	-6,043.87	491.59	213.38	278.21	1.767		
14,600.00	7,799.00	11,796.73	7,812.69	177.28	116.78	108.31	299.04	-6,135.58	520.79	241.14	279.65	1.862		
14,700.00	7,799.00	11,696.56	7,813.31	179.78	114.16	107.27	299.33	-6,235.74	545.62	264.90	280.72	1.944		
14,800.00	7,799.00	11,603.20	7,812.85	182.34	111.72	106.45	299.66	-6,329.10	565.41	283.91	281.50	2.009		
14,900.00	7,799.00	11,511.95	7,813.15	184.94	109.34	105.92	300.89	-6,420.35	581.47	299.56	281.91	2.063		
15,000.00	7,799.00	11,405.06	7,813.32	187.56	106.55	105.51	302.69	-6,527.21	592.87	310.41	282.46	2.099		
15,100.00	7,799.00	11,299.04	7,812.69	190.21	103.79	105.27	303.05	-6,633.23	597.72	314.90	282.83	2.113		
15,200.00	7,799.00	11,203.41	7,813.77	192.85	101.31	105.36	302.90	-6,728.85	598.33	315.63	282.70	2.116		
15,300.00	7,799.00	11,092.26	7,814.33	195.50	98.43	105.43	302.03	-6,839.99	597.68	314.89	282.79	2.114		
15,400.00	7,799.00	10,992.43	7,812.84	198.16	95.85	105.33	300.84	-6,939.80	596.13	313.14	282.99	2.107		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOS 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOS 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 6-T5S-R64W - EXIST HZ STATE ELBERT 1H - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 2215-MWDD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	7,799.00	10,899.44	7,811.95	200.81	93.45	105.26	300.25	-7,032.79	595.27	312.20	283.07	2.103	
15,513.87	7,799.00	10,886.86	7,811.89	201.18	93.12	105.25	300.26	-7,045.37	595.25	312.18	283.07	2.103	
15,600.00	7,799.00	10,809.45	7,811.75	203.46	91.13	105.22	300.85	-7,122.77	595.85	312.83	283.02	2.105	
15,700.00	7,799.00	10,719.73	7,812.19	206.11	88.83	105.21	303.03	-7,212.46	598.30	315.44	282.86	2.115	
15,800.00	7,799.00	10,618.44	7,813.49	208.77	86.24	105.25	306.09	-7,313.70	601.54	318.61	282.93	2.126	
15,900.00	7,799.00	10,507.75	7,813.40	211.43	83.42	105.19	308.47	-7,424.36	603.58	320.22	283.36	2.130	
16,000.00	7,799.00	10,404.10	7,813.89	214.08	80.79	105.22	309.03	-7,528.01	604.21	320.72	283.49	2.131	
16,100.00	7,799.00	10,305.19	7,815.20	216.74	78.28	105.33	309.42	-7,626.90	604.93	321.49	283.44	2.134	
16,200.00	7,799.00	10,203.99	7,815.41	219.40	75.73	105.33	310.10	-7,728.11	605.63	322.04	283.58	2.136	
16,300.00	7,799.00	10,101.06	7,814.60	222.06	73.15	105.24	310.69	-7,831.03	605.97	322.09	283.88	2.135	
16,400.00	7,799.00	10,008.82	7,815.57	224.72	70.85	105.33	310.88	-7,923.26	606.46	322.67	283.78	2.137	
16,500.00	7,799.00	9,910.55	7,819.23	227.38	68.42	105.64	311.67	-8,021.46	608.21	324.71	283.50	2.145	
16,600.00	7,799.00	9,806.49	7,823.70	230.04	65.86	106.04	311.87	-8,125.42	609.56	326.33	283.23	2.152	
16,700.00	7,799.00	9,710.10	7,826.98	232.70	63.50	106.33	312.01	-8,221.75	610.66	327.71	282.95	2.158	
16,800.00	7,799.00	9,603.09	7,830.58	235.36	60.91	106.65	312.10	-8,328.70	611.69	328.83	282.86	2.163	
16,900.00	7,799.00	9,508.52	7,832.93	238.03	58.64	106.86	312.28	-8,423.24	612.58	329.88	282.70	2.167	
17,000.00	7,799.00	9,410.92	7,835.88	240.69	56.33	107.10	312.98	-8,520.80	614.14	331.58	282.55	2.174	
17,100.00	7,799.00	9,300.92	7,838.05	243.36	53.76	107.28	313.55	-8,630.77	615.22	332.44	282.78	2.176	
17,200.00	7,799.00	9,185.72	7,838.30	246.02	51.11	107.35	311.74	-8,745.95	613.73	330.57	283.16	2.167	
17,300.00	7,799.00	9,086.26	7,836.99	248.69	48.85	107.30	309.58	-8,845.38	611.26	327.66	283.60	2.155	
17,400.00	7,799.00	8,984.17	7,836.12	251.35	46.58	107.28	307.57	-8,947.44	609.12	325.08	284.04	2.144	
17,500.00	7,799.00	8,880.29	7,835.22	254.02	44.33	107.28	304.45	-9,051.27	605.98	321.48	284.49	2.130	
17,600.00	7,799.00	8,785.88	7,833.48	256.69	42.34	107.19	302.06	-9,145.64	603.02	317.92	285.10	2.115	
17,700.00	7,799.00	8,691.43	7,832.68	259.35	40.42	107.16	300.55	-9,240.07	601.22	315.57	285.65	2.105	
17,800.00	7,799.00	8,596.03	7,833.64	262.02	38.56	107.29	299.19	-9,335.45	600.16	314.12	286.04	2.098	
17,858.09	7,799.00	8,541.88	7,834.80	263.57	37.54	107.41	298.61	-9,389.58	599.93	313.74	286.20	2.096	
17,900.00	7,799.00	8,503.99	7,835.78	264.69	36.85	107.50	298.44	-9,427.46	600.07	313.79	286.29	2.096	
18,000.00	7,799.00	8,417.91	7,838.34	267.36	35.35	107.72	299.14	-9,513.50	601.76	315.36	286.40	2.101	
18,100.00	7,799.00	8,336.15	7,840.90	270.03	34.01	107.86	302.12	-9,595.16	606.20	319.83	286.37	2.117	
18,200.00	7,799.00	8,204.53	7,838.28	272.70	32.11	107.44	308.72	-9,726.45	610.61	321.44	289.17	2.112	
18,300.00	7,799.00	18,300.00	7,804.10	275.37	165.37	104.15	316.52	-9,868.93	609.93	186.77	423.16	1.441	Level 3
18,400.00	7,799.00	7,896.42	7,728.24	278.04	28.73	97.07	314.78	-10,010.36	598.29	296.15	302.14	1.980	
18,464.45	7,799.00	7,831.14	7,687.43	279.17	28.20	93.14	311.88	-10,061.19	590.16	285.35	304.81	1.936	

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 24' @ 6021.71usft

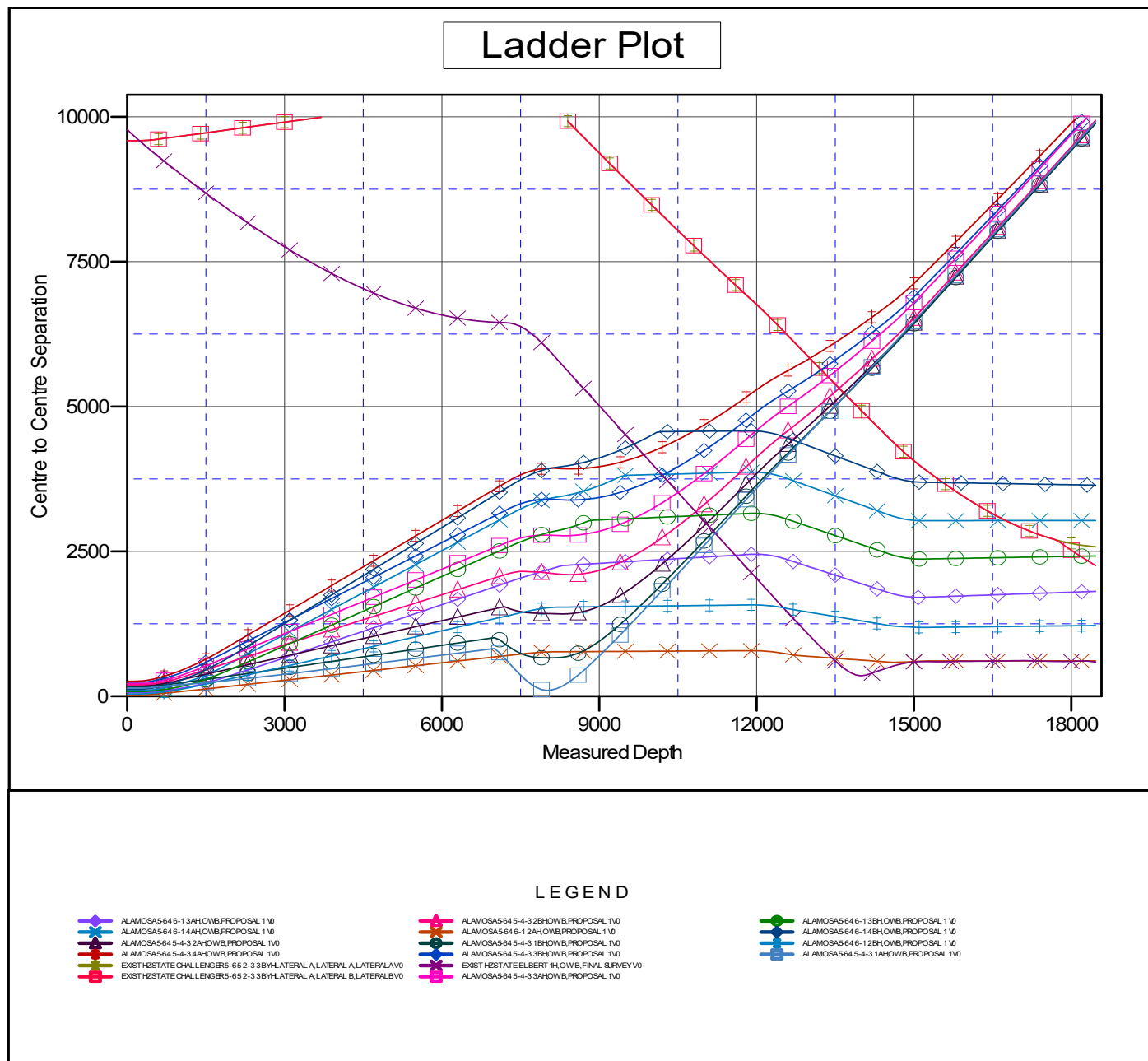
Offset Depths are relative to Offset Datum

Central Meridian is 105.500000°W

Coordinates are relative to: ALAMOSA 5-64 6-1 1BH

Coordinate System is US State Plane 1983, Colorado Central Zone

Grid Convergence at Surface is: 0.58°



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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well ALAMOSA 5-64 6-1 1BH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 24' @ 6021.71usft
<b>Reference Site:</b>	SEC 6-T5S-R64W	<b>MD Reference:</b>	KB 24' @ 6021.71usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ALAMOSA 5-64 6-1 1BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 24' @ 6021.71usft

Offset Depths are relative to Offset Datum

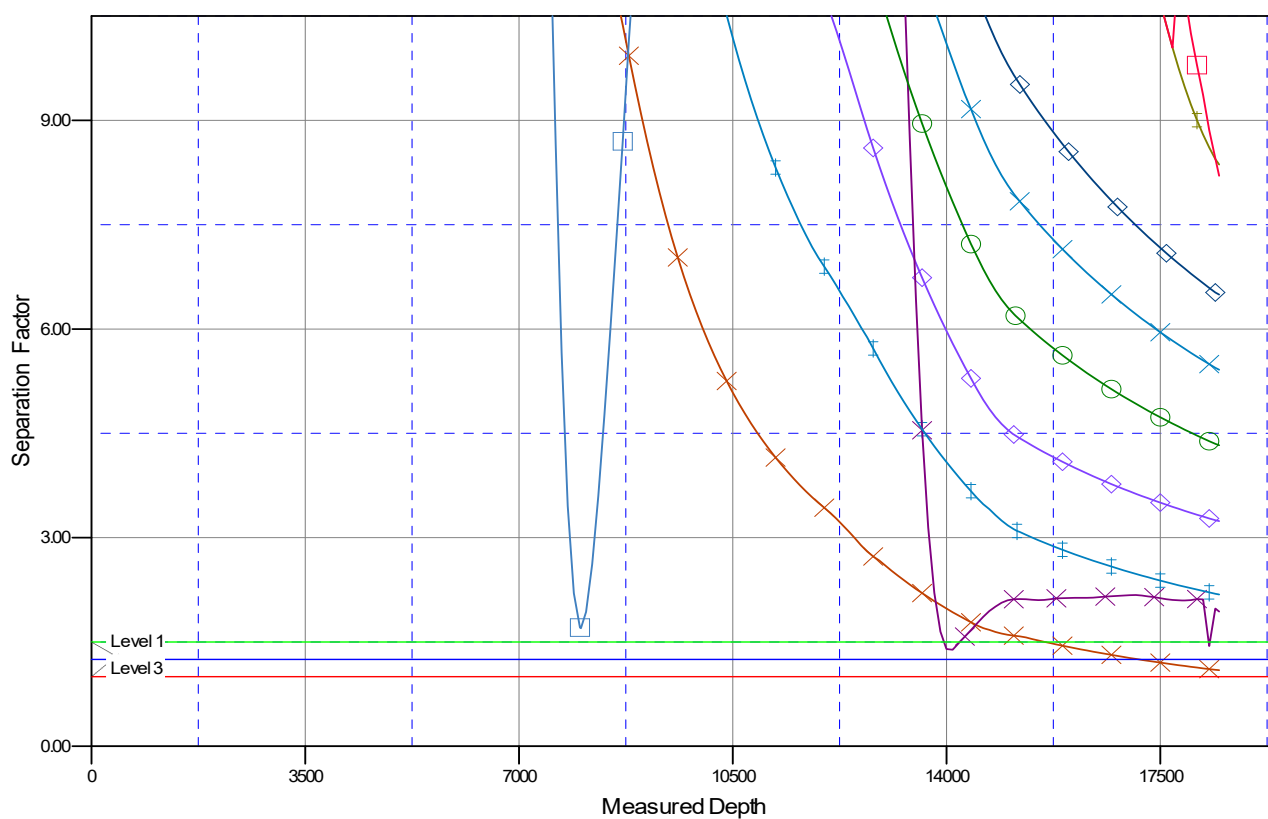
Central Meridian is 105.500000°W

Coordinates are relative to: ALAMOSA 5-64 6-1 1BH

Coordinate System is US State Plane 1983, Colorado Central Zone

Grid Convergence at Surface is: 0.58°

## Separation Factor Plot



### LEGEND

ALAMOSA5646-13AHOWB,PROPOSAL 1V0	ALAMOSA5645-4-32BHOWB,PROPOSAL 1V0	ALAMOSA5646-13BH,OWB,PROPOSAL 1V0
ALAMOSA5646-14AHOWB,PROPOSAL 1V0	ALAMOSA5646-12AH,OWB,PROPOSAL 1V0	ALAMOSA5646-14BH,OWB,PROPOSAL 1V0
ALAMOSA5645-4-32AHOWB,PROPOSAL 1V0	ALAMOSA5645-4-31BHOWB,PROPOSAL 1V0	ALAMOSA5646-12BH,OWB,PROPOSAL 1V0
ALAMOSA5645-4-34AHOWB,PROPOSAL 1V0	ALAMOSA5645-4-33BHOWB,PROPOSAL 1V0	ALAMOSA5645-4-31AHOWB,PROPOSAL 1V0
EXISTH2STATECHALLENGER5-652-33BY-LATERAL,ALATERAL,ALATERALAV0	EXISTH2STATEELBERT 1H,OWB,FINAL SURVEYV0	
EXISTH2STATECHALLENGER5-652-33BY-LATERAL,ALATERAL,BLATERALBV0	ALAMOSA5645-4-33AHOWB,PROPOSAL 1V0	