

# **CRESTONE PEAK RESOURCES**

**ARAPAHOE COUNTY**

**SEC 15-T4S-R65W**

**LONE TREE 4-65 15-16 4AH**

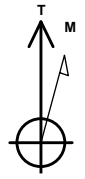
**OWB**

**Plan: PROPOSAL 1**

## **Standard Planning Report**

**11 February, 2022**

Project: ARAPAHOE COUNTY  
 Site: SEC 15-T4S-R65W  
 Well: LONE TREE 4-65 15-16 4AH  
 Wellbore: OWB  
 Design: PROPOSAL 1



Azimuths to True North  
 Magnetic North: 7.65°  
 Magnetic Field  
 Strength: 51525.2nT  
 Dip Angle: 66.09°  
 Date: 2/10/2022  
 Model: IGRF2020

WELL DETAILS: LONE TREE 4-65 15-16 4AH

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1683280.37	3241110.37	39.706284°N	104.643033°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	Start Build 2.00
1288.87	20.78	160.02	1266.25	-175.10	63.66	-16.80	186.31	Start 6421.52 hold at 1288.87 MD
7710.39	20.78	160.02	7270.15	-2315.96	842.02	-222.18	2464.28	Start DLS 10.00 TFO 108.71
8679.79	90.00	269.93	7875.00	-2532.38	273.51	382.76	3127.36	Start 9896.13 hold at 8679.79 MD
18575.92	90.00	269.93	7875.00	-2543.68	-9622.61	9953.14	13023.49	TD at 18575.92

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
3	1288.87	20.78	160.02	1266.25	-175.10	63.66	2.00	160.02	-16.80	
4	7710.39	20.78	160.02	7270.15	-2315.96	842.02	0.00	0.00	-222.18	
5	8679.79	90.00	269.93	7875.00	-2532.38	273.51	10.00	108.71	382.76	LP-LT 4-65
6	18575.92	90.00	269.93	7875.00	-2543.68	-9622.61	0.00	0.00	9953.14	PBHL-LT 4

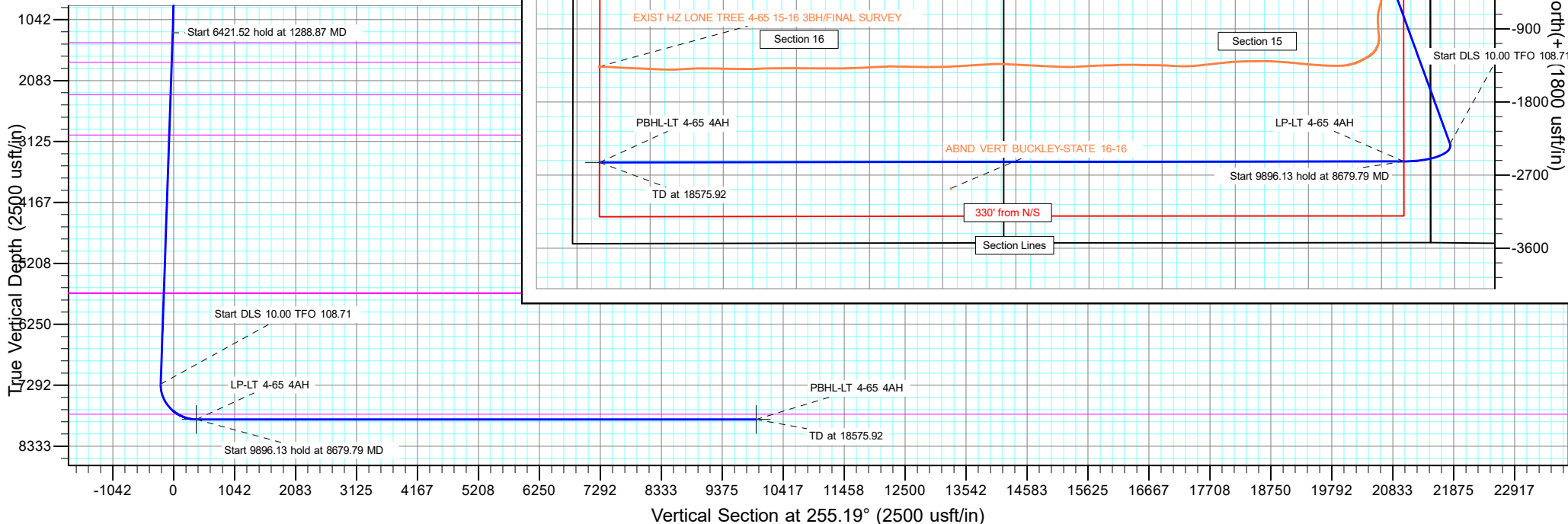
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-LT 4-65 4AH - plan hits target center	7875.00	-2532.38	273.51	1680750.70	3241407.75	39.699332°N	104.642061°W	Point
PBHL-LT 4-65 4AH - plan hits target center	7875.00	-2543.68	-9622.61	1680646.05	3231512.26	39.699296°N	104.677230°W	Point

PROJECT DETAILS: ARAPAHOE COUNTY

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Central Zone  
 System Datum: Mean Sea Level

- SHL:  
1769' FNL, 600' FEL  
Sec 15-T4S-R65W
- LP:  
1000' FSL, 330' FEL  
Sec 15-T4S-R65W
- BHL:  
1000' FSL, 330' FWL  
Sec 16-T4S-R65W



Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

<b>Project</b>	ARAPAHOE COUNTY		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		Using geodetic scale factor

<b>Site</b>	SEC 15-T4S-R65W				
<b>Site Position:</b>		<b>Northing:</b>	1,685,061.36 usft	<b>Latitude:</b>	39.711158°N
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,241,690.88 usft	<b>Longitude:</b>	104.640910°W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	0.54 °

<b>Well</b>	LONE TREE 4-65 15-16 4AH					
<b>Well Position</b>	<b>+N/-S</b>	-1,775.44 usft	<b>Northing:</b>	1,683,280.36 usft	<b>Latitude:</b>	39.706284°N
	<b>+E/-W</b>	-597.33 usft	<b>Easting:</b>	3,241,110.37 usft	<b>Longitude:</b>	104.643033°W
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	5,693.30 usft

<b>Wellbore</b>	OWB				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	2/10/2022	7.65	66.09	51,525.24349671

<b>Design</b>	PROPOSAL 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	255.19

<b>Plan Survey Tool Program</b>	<b>Date</b>	2/11/2022		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	18,575.92 PROPOSAL 1 (OWB)	MWD OWSG	
			OWSG MWD - Standard	

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,288.87	20.78	160.02	1,266.25	-175.10	63.66	2.00	2.00	0.00	160.02	
7,710.39	20.78	160.02	7,270.15	-2,315.96	842.02	0.00	0.00	0.00	0.00	
8,679.79	90.00	269.93	7,875.00	-2,532.38	273.51	10.00	7.14	11.34	108.71	LP-LT 4-65 4AH
18,575.92	90.00	269.93	7,875.00	-2,543.68	-9,622.62	0.00	0.00	0.00	0.00	PBHL-LT 4-65 4AH

Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>										
300.00	1.00	160.02	300.00	-0.41	0.15	-0.04	2.00	2.00	0.00	0.00
400.00	3.00	160.02	399.93	-3.69	1.34	-0.35	2.00	2.00	0.00	0.00
500.00	5.00	160.02	499.68	-10.25	3.72	-0.98	2.00	2.00	0.00	0.00
600.00	7.00	160.02	599.13	-20.07	7.30	-1.93	2.00	2.00	0.00	0.00
700.00	9.00	160.02	698.15	-33.15	12.05	-3.18	2.00	2.00	0.00	0.00
800.00	11.00	160.02	796.63	-49.47	17.98	-4.75	2.00	2.00	0.00	0.00
900.00	13.00	160.02	894.44	-69.01	25.09	-6.62	2.00	2.00	0.00	0.00
1,000.00	15.00	160.02	991.46	-91.74	33.35	-8.80	2.00	2.00	0.00	0.00
1,100.00	17.00	160.02	1,087.58	-117.64	42.77	-11.29	2.00	2.00	0.00	0.00
1,200.00	19.00	160.02	1,182.68	-146.68	53.33	-14.07	2.00	2.00	0.00	0.00
1,288.87	20.78	160.02	1,266.25	-175.10	63.66	-16.80	2.00	2.00	0.00	0.00
<b>Start 6421.52 hold at 1288.87 MD</b>										
1,300.00	20.78	160.02	1,276.66	-178.81	65.01	-17.15	0.00	0.00	0.00	0.00
1,400.00	20.78	160.02	1,370.15	-212.15	77.13	-20.35	0.00	0.00	0.00	0.00
1,468.29	20.78	160.02	1,434.00	-234.91	85.41	-22.54	0.00	0.00	0.00	0.00
<b>Laramie</b>										
1,500.00	20.78	160.02	1,463.65	-245.48	89.25	-23.55	0.00	0.00	0.00	0.00
1,600.00	20.78	160.02	1,557.15	-278.82	101.37	-26.75	0.00	0.00	0.00	0.00
1,700.00	20.78	160.02	1,650.64	-312.16	113.49	-29.95	0.00	0.00	0.00	0.00
1,800.00	20.78	160.02	1,744.14	-345.50	125.61	-33.15	0.00	0.00	0.00	0.00
1,829.80	20.78	160.02	1,772.00	-355.44	129.23	-34.10	0.00	0.00	0.00	0.00
<b>Fox Hills</b>										
1,900.00	20.78	160.02	1,837.64	-378.84	137.74	-36.34	0.00	0.00	0.00	0.00
2,000.00	20.78	160.02	1,931.13	-412.18	149.86	-39.54	0.00	0.00	0.00	0.00
2,100.00	20.78	160.02	2,024.63	-445.52	161.98	-42.74	0.00	0.00	0.00	0.00
2,200.00	20.78	160.02	2,118.12	-478.86	174.10	-45.94	0.00	0.00	0.00	0.00
2,300.00	20.78	160.02	2,211.62	-512.20	186.22	-49.14	0.00	0.00	0.00	0.00
2,400.00	20.78	160.02	2,305.12	-545.54	198.34	-52.33	0.00	0.00	0.00	0.00
2,421.27	20.78	160.02	2,325.00	-552.62	200.92	-53.02	0.00	0.00	0.00	0.00
<b>Upper Pierre aquifer</b>										
2,500.00	20.78	160.02	2,398.61	-578.87	210.46	-55.53	0.00	0.00	0.00	0.00
2,600.00	20.78	160.02	2,492.11	-612.21	222.58	-58.73	0.00	0.00	0.00	0.00
2,700.00	20.78	160.02	2,585.61	-645.55	234.71	-61.93	0.00	0.00	0.00	0.00
2,800.00	20.78	160.02	2,679.10	-678.89	246.83	-65.13	0.00	0.00	0.00	0.00
2,900.00	20.78	160.02	2,772.60	-712.23	258.95	-68.33	0.00	0.00	0.00	0.00
3,000.00	20.78	160.02	2,866.10	-745.57	271.07	-71.52	0.00	0.00	0.00	0.00
3,100.00	20.78	160.02	2,959.59	-778.91	283.19	-74.72	0.00	0.00	0.00	0.00
3,157.12	20.78	160.02	3,013.00	-797.95	290.11	-76.55	0.00	0.00	0.00	0.00
<b>Base of Upper Pierre aquifer</b>										
3,200.00	20.78	160.02	3,053.09	-812.25	295.31	-77.92	0.00	0.00	0.00	0.00
3,300.00	20.78	160.02	3,146.59	-845.59	307.43	-81.12	0.00	0.00	0.00	0.00
3,400.00	20.78	160.02	3,240.08	-878.92	319.55	-84.32	0.00	0.00	0.00	0.00
3,500.00	20.78	160.02	3,333.58	-912.26	331.67	-87.52	0.00	0.00	0.00	0.00
3,600.00	20.78	160.02	3,427.08	-945.60	343.80	-90.71	0.00	0.00	0.00	0.00
3,700.00	20.78	160.02	3,520.57	-978.94	355.92	-93.91	0.00	0.00	0.00	0.00
3,800.00	20.78	160.02	3,614.07	-1,012.28	368.04	-97.11	0.00	0.00	0.00	0.00
3,900.00	20.78	160.02	3,707.57	-1,045.62	380.16	-100.31	0.00	0.00	0.00	0.00
4,000.00	20.78	160.02	3,801.06	-1,078.96	392.28	-103.51	0.00	0.00	0.00	0.00

Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,100.00	20.78	160.02	3,894.56	-1,112.30	404.40	-106.71	0.00	0.00	0.00	
4,200.00	20.78	160.02	3,988.05	-1,145.64	416.52	-109.90	0.00	0.00	0.00	
4,300.00	20.78	160.02	4,081.55	-1,178.97	428.64	-113.10	0.00	0.00	0.00	
4,400.00	20.78	160.02	4,175.05	-1,212.31	440.76	-116.30	0.00	0.00	0.00	
4,500.00	20.78	160.02	4,268.54	-1,245.65	452.89	-119.50	0.00	0.00	0.00	
4,600.00	20.78	160.02	4,362.04	-1,278.99	465.01	-122.70	0.00	0.00	0.00	
4,700.00	20.78	160.02	4,455.54	-1,312.33	477.13	-125.90	0.00	0.00	0.00	
4,800.00	20.78	160.02	4,549.03	-1,345.67	489.25	-129.09	0.00	0.00	0.00	
4,900.00	20.78	160.02	4,642.53	-1,379.01	501.37	-132.29	0.00	0.00	0.00	
5,000.00	20.78	160.02	4,736.03	-1,412.35	513.49	-135.49	0.00	0.00	0.00	
5,100.00	20.78	160.02	4,829.52	-1,445.69	525.61	-138.69	0.00	0.00	0.00	
5,200.00	20.78	160.02	4,923.02	-1,479.03	537.73	-141.89	0.00	0.00	0.00	
5,300.00	20.78	160.02	5,016.52	-1,512.36	549.85	-145.09	0.00	0.00	0.00	
5,400.00	20.78	160.02	5,110.01	-1,545.70	561.98	-148.28	0.00	0.00	0.00	
5,500.00	20.78	160.02	5,203.51	-1,579.04	574.10	-151.48	0.00	0.00	0.00	
5,600.00	20.78	160.02	5,297.01	-1,612.38	586.22	-154.68	0.00	0.00	0.00	
5,700.00	20.78	160.02	5,390.50	-1,645.72	598.34	-157.88	0.00	0.00	0.00	
5,800.00	20.78	160.02	5,484.00	-1,679.06	610.46	-161.08	0.00	0.00	0.00	
5,900.00	20.78	160.02	5,577.50	-1,712.40	622.58	-164.28	0.00	0.00	0.00	
6,000.00	20.78	160.02	5,670.99	-1,745.74	634.70	-167.47	0.00	0.00	0.00	
6,048.14	20.78	160.02	5,716.00	-1,761.79	640.54	-169.01	0.00	0.00	0.00	
<b>Terry ("Sussex") - Hygiene ("Shannon") - Mitten - Mitten Marker 1 - Tepee Buttes - Mitten Marker 2 - Sharon Springs</b>										
6,100.00	20.78	160.02	5,764.49	-1,779.08	646.82	-170.67	0.00	0.00	0.00	
6,200.00	20.78	160.02	5,857.98	-1,812.41	658.94	-173.87	0.00	0.00	0.00	
6,300.00	20.78	160.02	5,951.48	-1,845.75	671.07	-177.07	0.00	0.00	0.00	
6,400.00	20.78	160.02	6,044.98	-1,879.09	683.19	-180.27	0.00	0.00	0.00	
6,500.00	20.78	160.02	6,138.47	-1,912.43	695.31	-183.47	0.00	0.00	0.00	
6,600.00	20.78	160.02	6,231.97	-1,945.77	707.43	-186.66	0.00	0.00	0.00	
6,700.00	20.78	160.02	6,325.47	-1,979.11	719.55	-189.86	0.00	0.00	0.00	
6,800.00	20.78	160.02	6,418.96	-2,012.45	731.67	-193.06	0.00	0.00	0.00	
6,900.00	20.78	160.02	6,512.46	-2,045.79	743.79	-196.26	0.00	0.00	0.00	
7,000.00	20.78	160.02	6,605.96	-2,079.13	755.91	-199.46	0.00	0.00	0.00	
7,100.00	20.78	160.02	6,699.45	-2,112.46	768.03	-202.66	0.00	0.00	0.00	
7,200.00	20.78	160.02	6,792.95	-2,145.80	780.16	-205.85	0.00	0.00	0.00	
7,300.00	20.78	160.02	6,886.45	-2,179.14	792.28	-209.05	0.00	0.00	0.00	
7,400.00	20.78	160.02	6,979.94	-2,212.48	804.40	-212.25	0.00	0.00	0.00	
7,500.00	20.78	160.02	7,073.44	-2,245.82	816.52	-215.45	0.00	0.00	0.00	
7,600.00	20.78	160.02	7,166.94	-2,279.16	828.64	-218.65	0.00	0.00	0.00	
7,700.00	20.78	160.02	7,260.43	-2,312.50	840.76	-221.85	0.00	0.00	0.00	
7,710.39	20.78	160.02	7,270.15	-2,315.96	842.02	-222.18	0.00	0.00	0.00	
<b>Start DLS 10.00 TFO 108.71</b>										
7,750.00	19.85	171.13	7,307.31	-2,329.21	845.46	-222.12	10.00	-2.35	28.05	
7,800.00	19.73	185.93	7,354.38	-2,346.01	845.90	-218.25	10.00	-0.23	29.60	
7,850.00	20.80	200.06	7,401.31	-2,362.75	841.98	-210.18	10.00	2.14	28.27	
7,900.00	22.90	212.30	7,447.74	-2,379.33	833.73	-197.97	10.00	4.18	24.47	
7,950.00	25.76	222.27	7,493.32	-2,395.60	821.21	-181.71	10.00	5.73	19.94	
8,000.00	29.17	230.22	7,537.69	-2,411.45	804.53	-161.53	10.00	6.82	15.89	
8,050.00	32.96	236.56	7,580.52	-2,426.75	783.80	-137.58	10.00	7.57	12.68	
8,100.00	37.01	241.69	7,621.49	-2,441.39	759.19	-110.04	10.00	8.09	10.26	
8,150.00	41.24	245.92	7,660.28	-2,455.26	730.88	-79.13	10.00	8.46	8.47	
8,200.00	45.60	249.49	7,696.59	-2,468.25	699.08	-45.07	10.00	8.72	7.13	
8,250.00	50.05	252.55	7,730.16	-2,480.27	664.05	-8.13	10.00	8.91	6.13	
8,300.00	54.58	255.24	7,760.72	-2,491.21	626.04	31.42	10.00	9.05	5.37	
8,344.10	58.61	257.37	7,785.00	-2,499.91	590.28	68.22	10.00	9.15	4.83	

Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
<b>Niobrara</b>									
8,350.00	59.16	257.64	7,788.05	-2,501.00	585.35	73.26	10.00	9.20	4.58
8,400.00	63.78	259.81	7,811.93	-2,509.57	542.28	117.09	10.00	9.24	4.36
8,450.00	68.43	261.83	7,832.18	-2,516.85	497.17	162.56	10.00	9.30	4.02
8,500.00	73.10	263.71	7,848.65	-2,522.78	450.35	209.34	10.00	9.34	3.77
8,550.00	77.79	265.51	7,861.21	-2,527.31	402.18	257.07	10.00	9.38	3.59
8,600.00	82.49	267.24	7,869.78	-2,530.43	353.04	305.38	10.00	9.40	3.46
8,650.00	87.19	268.93	7,874.27	-2,532.09	303.28	353.90	10.00	9.41	3.39
8,679.79	90.00	269.93	7,875.00	-2,532.38	273.51	382.76	10.00	9.42	3.36
<b>Start 9896.13 hold at 8679.79 MD</b>									
8,700.00	90.00	269.93	7,875.00	-2,532.40	253.30	402.31	0.00	0.00	0.00
8,800.00	90.00	269.93	7,875.00	-2,532.52	153.30	499.02	0.00	0.00	0.00
8,900.00	90.00	269.93	7,875.00	-2,532.63	53.30	595.73	0.00	0.00	0.00
9,000.00	90.00	269.93	7,875.00	-2,532.75	-46.70	692.44	0.00	0.00	0.00
9,100.00	90.00	269.93	7,875.00	-2,532.86	-146.70	789.14	0.00	0.00	0.00
9,200.00	90.00	269.93	7,875.00	-2,532.97	-246.70	885.85	0.00	0.00	0.00
9,300.00	90.00	269.93	7,875.00	-2,533.09	-346.70	982.56	0.00	0.00	0.00
9,400.00	90.00	269.93	7,875.00	-2,533.20	-446.70	1,079.27	0.00	0.00	0.00
9,500.00	90.00	269.93	7,875.00	-2,533.32	-546.70	1,175.98	0.00	0.00	0.00
9,600.00	90.00	269.93	7,875.00	-2,533.43	-646.70	1,272.69	0.00	0.00	0.00
9,700.00	90.00	269.93	7,875.00	-2,533.54	-746.70	1,369.39	0.00	0.00	0.00
9,800.00	90.00	269.93	7,875.00	-2,533.66	-846.70	1,466.10	0.00	0.00	0.00
9,900.00	90.00	269.93	7,875.00	-2,533.77	-946.70	1,562.81	0.00	0.00	0.00
10,000.00	90.00	269.93	7,875.00	-2,533.89	-1,046.70	1,659.52	0.00	0.00	0.00
10,100.00	90.00	269.93	7,875.00	-2,534.00	-1,146.70	1,756.23	0.00	0.00	0.00
10,200.00	90.00	269.93	7,875.00	-2,534.12	-1,246.70	1,852.93	0.00	0.00	0.00
10,300.00	90.00	269.93	7,875.00	-2,534.23	-1,346.70	1,949.64	0.00	0.00	0.00
10,400.00	90.00	269.93	7,875.00	-2,534.34	-1,446.70	2,046.35	0.00	0.00	0.00
10,500.00	90.00	269.93	7,875.00	-2,534.46	-1,546.70	2,143.06	0.00	0.00	0.00
10,600.00	90.00	269.93	7,875.00	-2,534.57	-1,646.70	2,239.77	0.00	0.00	0.00
10,700.00	90.00	269.93	7,875.00	-2,534.69	-1,746.70	2,336.48	0.00	0.00	0.00
10,800.00	90.00	269.93	7,875.00	-2,534.80	-1,846.70	2,433.18	0.00	0.00	0.00
10,900.00	90.00	269.93	7,875.00	-2,534.92	-1,946.70	2,529.89	0.00	0.00	0.00
11,000.00	90.00	269.93	7,875.00	-2,535.03	-2,046.70	2,626.60	0.00	0.00	0.00
11,100.00	90.00	269.93	7,875.00	-2,535.14	-2,146.70	2,723.31	0.00	0.00	0.00
11,200.00	90.00	269.93	7,875.00	-2,535.26	-2,246.70	2,820.02	0.00	0.00	0.00
11,300.00	90.00	269.93	7,875.00	-2,535.37	-2,346.70	2,916.73	0.00	0.00	0.00
11,400.00	90.00	269.93	7,875.00	-2,535.49	-2,446.70	3,013.43	0.00	0.00	0.00
11,500.00	90.00	269.93	7,875.00	-2,535.60	-2,546.70	3,110.14	0.00	0.00	0.00
11,600.00	90.00	269.93	7,875.00	-2,535.72	-2,646.70	3,206.85	0.00	0.00	0.00
11,700.00	90.00	269.93	7,875.00	-2,535.83	-2,746.70	3,303.56	0.00	0.00	0.00
11,800.00	90.00	269.93	7,875.00	-2,535.94	-2,846.70	3,400.27	0.00	0.00	0.00
11,900.00	90.00	269.93	7,875.00	-2,536.06	-2,946.70	3,496.98	0.00	0.00	0.00
12,000.00	90.00	269.93	7,875.00	-2,536.17	-3,046.70	3,593.68	0.00	0.00	0.00
12,100.00	90.00	269.93	7,875.00	-2,536.29	-3,146.70	3,690.39	0.00	0.00	0.00
12,200.00	90.00	269.93	7,875.00	-2,536.40	-3,246.70	3,787.10	0.00	0.00	0.00
12,300.00	90.00	269.93	7,875.00	-2,536.51	-3,346.70	3,883.81	0.00	0.00	0.00
12,400.00	90.00	269.93	7,875.00	-2,536.63	-3,446.70	3,980.52	0.00	0.00	0.00
12,500.00	90.00	269.93	7,875.00	-2,536.74	-3,546.70	4,077.23	0.00	0.00	0.00
12,600.00	90.00	269.93	7,875.00	-2,536.86	-3,646.70	4,173.93	0.00	0.00	0.00
12,700.00	90.00	269.93	7,875.00	-2,536.97	-3,746.70	4,270.64	0.00	0.00	0.00
12,800.00	90.00	269.93	7,875.00	-2,537.09	-3,846.70	4,367.35	0.00	0.00	0.00
12,900.00	90.00	269.93	7,875.00	-2,537.20	-3,946.70	4,464.06	0.00	0.00	0.00

Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,000.00	90.00	269.93	7,875.00	-2,537.31	-4,046.70	4,560.77	0.00	0.00	0.00	
13,100.00	90.00	269.93	7,875.00	-2,537.43	-4,146.70	4,657.48	0.00	0.00	0.00	
13,200.00	90.00	269.93	7,875.00	-2,537.54	-4,246.70	4,754.18	0.00	0.00	0.00	
13,300.00	90.00	269.93	7,875.00	-2,537.66	-4,346.70	4,850.89	0.00	0.00	0.00	
13,400.00	90.00	269.93	7,875.00	-2,537.77	-4,446.70	4,947.60	0.00	0.00	0.00	
13,500.00	90.00	269.93	7,875.00	-2,537.89	-4,546.70	5,044.31	0.00	0.00	0.00	
13,600.00	90.00	269.93	7,875.00	-2,538.00	-4,646.70	5,141.02	0.00	0.00	0.00	
13,700.00	90.00	269.93	7,875.00	-2,538.11	-4,746.70	5,237.73	0.00	0.00	0.00	
13,800.00	90.00	269.93	7,875.00	-2,538.23	-4,846.70	5,334.43	0.00	0.00	0.00	
13,900.00	90.00	269.93	7,875.00	-2,538.34	-4,946.70	5,431.14	0.00	0.00	0.00	
14,000.00	90.00	269.93	7,875.00	-2,538.46	-5,046.70	5,527.85	0.00	0.00	0.00	
14,100.00	90.00	269.93	7,875.00	-2,538.57	-5,146.70	5,624.56	0.00	0.00	0.00	
14,200.00	90.00	269.93	7,875.00	-2,538.69	-5,246.70	5,721.27	0.00	0.00	0.00	
14,300.00	90.00	269.93	7,875.00	-2,538.80	-5,346.70	5,817.98	0.00	0.00	0.00	
14,400.00	90.00	269.93	7,875.00	-2,538.91	-5,446.70	5,914.68	0.00	0.00	0.00	
14,500.00	90.00	269.93	7,875.00	-2,539.03	-5,546.70	6,011.39	0.00	0.00	0.00	
14,600.00	90.00	269.93	7,875.00	-2,539.14	-5,646.70	6,108.10	0.00	0.00	0.00	
14,700.00	90.00	269.93	7,875.00	-2,539.26	-5,746.70	6,204.81	0.00	0.00	0.00	
14,800.00	90.00	269.93	7,875.00	-2,539.37	-5,846.70	6,301.52	0.00	0.00	0.00	
14,900.00	90.00	269.93	7,875.00	-2,539.48	-5,946.70	6,398.22	0.00	0.00	0.00	
15,000.00	90.00	269.93	7,875.00	-2,539.60	-6,046.70	6,494.93	0.00	0.00	0.00	
15,100.00	90.00	269.93	7,875.00	-2,539.71	-6,146.70	6,591.64	0.00	0.00	0.00	
15,200.00	90.00	269.93	7,875.00	-2,539.83	-6,246.70	6,688.35	0.00	0.00	0.00	
15,300.00	90.00	269.93	7,875.00	-2,539.94	-6,346.70	6,785.06	0.00	0.00	0.00	
15,400.00	90.00	269.93	7,875.00	-2,540.06	-6,446.70	6,881.77	0.00	0.00	0.00	
15,500.00	90.00	269.93	7,875.00	-2,540.17	-6,546.70	6,978.47	0.00	0.00	0.00	
15,600.00	90.00	269.93	7,875.00	-2,540.28	-6,646.70	7,075.18	0.00	0.00	0.00	
15,700.00	90.00	269.93	7,875.00	-2,540.40	-6,746.70	7,171.89	0.00	0.00	0.00	
15,800.00	90.00	269.93	7,875.00	-2,540.51	-6,846.70	7,268.60	0.00	0.00	0.00	
15,900.00	90.00	269.93	7,875.00	-2,540.63	-6,946.70	7,365.31	0.00	0.00	0.00	
16,000.00	90.00	269.93	7,875.00	-2,540.74	-7,046.70	7,462.02	0.00	0.00	0.00	
16,100.00	90.00	269.93	7,875.00	-2,540.86	-7,146.70	7,558.72	0.00	0.00	0.00	
16,200.00	90.00	269.93	7,875.00	-2,540.97	-7,246.70	7,655.43	0.00	0.00	0.00	
16,300.00	90.00	269.93	7,875.00	-2,541.08	-7,346.70	7,752.14	0.00	0.00	0.00	
16,400.00	90.00	269.93	7,875.00	-2,541.20	-7,446.70	7,848.85	0.00	0.00	0.00	
16,500.00	90.00	269.93	7,875.00	-2,541.31	-7,546.70	7,945.56	0.00	0.00	0.00	
16,600.00	90.00	269.93	7,875.00	-2,541.43	-7,646.70	8,042.27	0.00	0.00	0.00	
16,700.00	90.00	269.93	7,875.00	-2,541.54	-7,746.70	8,138.97	0.00	0.00	0.00	
16,800.00	90.00	269.93	7,875.00	-2,541.66	-7,846.70	8,235.68	0.00	0.00	0.00	
16,900.00	90.00	269.93	7,875.00	-2,541.77	-7,946.70	8,332.39	0.00	0.00	0.00	
17,000.00	90.00	269.93	7,875.00	-2,541.88	-8,046.70	8,429.10	0.00	0.00	0.00	
17,100.00	90.00	269.93	7,875.00	-2,542.00	-8,146.70	8,525.81	0.00	0.00	0.00	
17,200.00	90.00	269.93	7,875.00	-2,542.11	-8,246.70	8,622.52	0.00	0.00	0.00	
17,300.00	90.00	269.93	7,875.00	-2,542.23	-8,346.70	8,719.22	0.00	0.00	0.00	
17,400.00	90.00	269.93	7,875.00	-2,542.34	-8,446.70	8,815.93	0.00	0.00	0.00	
17,500.00	90.00	269.93	7,875.00	-2,542.45	-8,546.70	8,912.64	0.00	0.00	0.00	
17,600.00	90.00	269.93	7,875.00	-2,542.57	-8,646.70	9,009.35	0.00	0.00	0.00	
17,700.00	90.00	269.93	7,875.00	-2,542.68	-8,746.70	9,106.06	0.00	0.00	0.00	
17,800.00	90.00	269.93	7,875.00	-2,542.80	-8,846.70	9,202.77	0.00	0.00	0.00	
17,900.00	90.00	269.93	7,875.00	-2,542.91	-8,946.70	9,299.47	0.00	0.00	0.00	
18,000.00	90.00	269.93	7,875.00	-2,543.03	-9,046.70	9,396.18	0.00	0.00	0.00	
18,100.00	90.00	269.93	7,875.00	-2,543.14	-9,146.70	9,492.89	0.00	0.00	0.00	
18,200.00	90.00	269.93	7,875.00	-2,543.25	-9,246.70	9,589.60	0.00	0.00	0.00	
18,300.00	90.00	269.93	7,875.00	-2,543.37	-9,346.70	9,686.31	0.00	0.00	0.00	

Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
18,400.00	90.00	269.93	7,875.00	-2,543.48	-9,446.70	9,783.02	0.00	0.00	0.00	
18,500.00	90.00	269.93	7,875.00	-2,543.60	-9,546.70	9,879.72	0.00	0.00	0.00	
18,575.92	90.00	269.93	7,875.00	-2,543.68	-9,622.62	9,953.14	0.00	0.00	0.00	
<b>TD at 18575.92</b>										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LP-LT 4-65 4AH - hit/miss target - Shape - Point	0.00	0.00	7,875.00	-2,532.38	273.51	1,680,750.70	3,241,407.76	39.699332°N	104.642061°W	
PBHL-LT 4-65 4AH - plan hits target center - Point	0.00	0.00	7,875.00	-2,543.68	-9,622.62	1,680,646.05	3,231,512.26	39.699296°N	104.677230°W	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,468.29	1,434.00	Laramie				
1,829.80	1,772.00	Fox Hills				
2,421.27	2,325.00	Upper Pierre aquifer				
3,157.12	3,013.00	Base of Upper Pierre aquifer				
6,048.14	5,716.00	Terry ("Sussex")				
6,048.14	5,716.00	Hygiene ("Shannon")				
6,048.14	5,716.00	Mitten				
6,048.14	5,716.00	Mitten Marker 1				
6,048.14	5,716.00	Tepee Buttes				
6,048.14	5,716.00	Mitten Marker 2				
6,048.14	5,716.00	Sharon Springs				
8,344.10	7,785.00	Niobrara				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
250.00	250.00	0.00	0.00	Start Build 2.00	
1,288.87	1,266.25	-175.10	63.66	Start 6421.52 hold at 1288.87 MD	
7,710.39	7,270.15	-2,315.96	842.02	Start DLS 10.00 TFO 108.71	
8,679.79	7,875.00	-2,532.38	273.51	Start 9896.13 hold at 8679.79 MD	
18,575.92	7,875.00	-2,543.68	-9,622.62	TD at 18575.92	

# **CRESTONE PEAK RESOURCES**

**ARAPAHOE COUNTY  
SEC 15-T4S-R65W  
LONE TREE 4-65 15-16 4AH**

**OWB  
PROPOSAL 1**

## **Anticollision Report**

**11 February, 2022**

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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>	Stations	<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>	Date	2/11/2022		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	18,575.92	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 15-T4S-R65W						
ABND VERT BUCKLEY-STATE 16-16 - OWB - Design #	14,251.99	7,846.70	323.85	26.42	1.089	Level 2, CC, ES, SF
ABND VERT STATE-SMITH 1-16 - OWB - Design #1	18,239.36	7,806.30	3,560.93	3,158.37	8.846	CC
ABND VERT STATE-SMITH 1-16 - OWB - Design #1	18,300.00	7,806.30	3,561.44	3,157.58	8.818	ES
ABND VERT STATE-SMITH 1-16 - OWB - Design #1	18,575.92	7,806.30	3,576.80	3,167.95	8.748	SF
EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL	971.19	963.22	36.75	29.96	5.412	CC, ES
EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL	18,575.92	17,483.46	1,180.12	649.95	2.226	SF
EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FI	2,616.57	2,489.49	761.07	745.70	49.536	CC
EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FI	2,700.00	2,564.00	761.90	745.68	46.959	ES
EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FI	4,100.00	3,863.86	955.50	927.43	34.034	SF
LONE TREE 4-65 15-16 1AH - OWB - PROPOSAL 1	206.19	211.89	249.88	248.83	237.848	CC
LONE TREE 4-65 15-16 1AH - OWB - PROPOSAL 1	250.00	255.34	249.89	248.52	183.288	ES
LONE TREE 4-65 15-16 1AH - OWB - PROPOSAL 1	18,575.92	18,221.72	3,858.69	3,307.10	6.996	SF
LONE TREE 4-65 15-16 1BH - OWB - PROPOSAL 1	250.00	254.90	199.98	198.62	146.848	CC, ES
LONE TREE 4-65 15-16 1BH - OWB - PROPOSAL 1	18,575.92	18,230.53	3,189.57	2,638.01	5.783	SF
LONE TREE 4-65 15-16 2AH - OWB - PROPOSAL 1	250.70	255.23	149.71	148.35	109.686	CC, ES
LONE TREE 4-65 15-16 2AH - OWB - PROPOSAL 1	18,575.92	18,142.12	2,518.91	1,967.35	4.567	SF
LONE TREE 4-65 15-16 2BH - OWB - PROPOSAL 1	250.21	250.32	99.81	98.46	74.147	CC
LONE TREE 4-65 15-16 2BH - OWB - PROPOSAL 1	300.00	301.21	99.94	98.25	59.047	ES
LONE TREE 4-65 15-16 2BH - OWB - PROPOSAL 1	18,567.42	18,258.91	1,850.52	1,298.92	3.355	SF
LONE TREE 4-65 15-16 3CH - OWB - PROPOSAL 1	255.08	255.26	49.90	48.52	36.168	CC
LONE TREE 4-65 15-16 3CH - OWB - PROPOSAL 1	1,000.00	1,011.90	52.34	45.43	7.573	ES
LONE TREE 4-65 15-16 3CH - OWB - PROPOSAL 1	18,575.92	18,483.20	604.60	54.84	1.100	Level 2, SF
LONE TREE 4-65 15-16 4BH - OWB - PROPOSAL 1	250.00	250.00	50.27	48.93	37.396	CC
LONE TREE 4-65 15-16 4BH - OWB - PROPOSAL 1	1,300.00	1,282.86	51.99	42.63	5.555	ES
LONE TREE 4-65 15-16 4BH - OWB - PROPOSAL 1	18,575.92	18,845.95	604.61	57.28	1.105	Level 2, SF
PROSPER FARMS 4-65 14-13 1AH - OWB - PROPOSA	206.36	211.66	224.75	223.70	213.975	CC
PROSPER FARMS 4-65 14-13 1AH - OWB - PROPOSA	250.00	254.93	224.76	223.40	165.022	ES
PROSPER FARMS 4-65 14-13 1AH - OWB - PROPOSA	11,200.00	7,240.98	4,658.14	4,563.87	49.412	SF
PROSPER FARMS 4-65 14-13 1BH - OWB - PROPOSA	250.00	254.40	174.85	173.49	128.561	CC, ES
PROSPER FARMS 4-65 14-13 1BH - OWB - PROPOSA	10,400.00	7,476.91	3,618.62	3,535.41	43.487	SF
PROSPER FARMS 4-65 14-13 2BH - OWB - PROPOSA	615.05	629.77	124.56	120.63	31.642	CC, ES
PROSPER FARMS 4-65 14-13 2BH - OWB - PROPOSA	1,100.00	1,112.51	163.22	155.65	21.571	SF
PROSPER FARMS 4-65 14-13 3AH - OWB - PROPOSA	846.30	861.03	72.12	66.51	12.874	CC, ES
PROSPER FARMS 4-65 14-13 3AH - OWB - PROPOSA	1,100.00	1,114.29	83.28	75.76	11.079	SF
PROSPER FARMS 4-65 14-13 3BH - OWB - PROPOSA	788.32	792.88	23.46	18.34	4.578	CC
PROSPER FARMS 4-65 14-13 3BH - OWB - PROPOSA	900.00	905.41	23.74	17.78	3.983	ES
PROSPER FARMS 4-65 14-13 3BH - OWB - PROPOSA	1,100.00	1,106.19	27.16	19.45	3.524	SF

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
SEC 15-T4S-R65W						
PROSPER FARMS 4-65 14-13 4AH - OWB - PROPOSA	8,333.65	8,277.45	18.66	-52.69	0.262	Level 1, CC, ES, SF
PROSPER FARMS 4-65 14-13 4BH - OWB - PROPOSA	250.00	250.00	75.04	73.70	55.822	CC
PROSPER FARMS 4-65 14-13 4BH - OWB - PROPOSA	700.00	688.51	76.34	71.89	17.158	ES
PROSPER FARMS 4-65 14-13 4BH - OWB - PROPOSA	8,250.00	8,221.17	580.64	493.32	6.650	SF

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-INC-ONLY													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	0.00	0.00	-118.38	-2,862.59	-5,298.31	6,022.24						
100.00	100.00	71.70	71.70	0.13	0.56	-118.38	-2,862.59	-5,298.31	6,022.17	6,021.48	0.70	8,633.223			
200.00	200.00	171.70	171.70	0.49	2.04	-118.38	-2,862.59	-5,298.31	6,022.17	6,019.65	2.53	2,380.590			
250.00	250.00	221.70	221.70	0.67	2.91	-118.38	-2,862.59	-5,298.31	6,022.17	6,018.59	3.58	1,681.421			
300.00	300.00	271.70	271.70	0.84	3.78	81.60	-2,862.59	-5,298.31	6,022.11	6,017.49	4.63	1,301.988			
400.00	399.93	371.63	371.63	1.19	5.53	81.65	-2,862.59	-5,298.31	6,021.60	6,014.89	6.71	897.513			
500.00	499.68	471.38	471.38	1.54	7.27	81.73	-2,862.59	-5,298.31	6,020.59	6,011.78	8.81	683.594			
600.00	599.13	570.83	570.83	1.92	9.00	81.86	-2,862.59	-5,298.31	6,019.09	6,008.17	10.92	551.264			
700.00	698.15	669.85	669.85	2.32	10.73	82.03	-2,862.59	-5,298.31	6,017.12	6,004.08	13.05	461.230			
800.00	796.63	768.33	768.33	2.74	12.45	82.24	-2,862.59	-5,298.31	6,014.71	5,999.52	15.19	395.926			
900.00	894.44	866.14	866.14	3.21	14.16	82.49	-2,862.59	-5,298.31	6,011.89	5,994.53	17.36	346.336			
1,000.00	991.46	963.16	963.16	3.71	15.85	82.77	-2,862.59	-5,298.31	6,008.69	5,989.14	19.55	307.361			
1,100.00	1,087.58	1,059.28	1,059.28	4.25	17.53	83.09	-2,862.59	-5,298.31	6,005.16	5,983.40	21.77	275.901			
1,200.00	1,182.68	1,154.38	1,154.38	4.83	19.19	83.45	-2,862.59	-5,298.31	6,001.36	5,977.35	24.01	249.965			
1,288.87	1,266.25	1,237.95	1,237.95	5.39	20.65	83.79	-2,862.59	-5,298.31	5,997.78	5,971.76	26.03	230.461			
1,300.00	1,276.66	1,248.36	1,248.36	5.46	20.83	83.82	-2,862.59	-5,298.31	5,997.33	5,971.05	26.28	228.220			
1,400.00	1,370.15	1,341.85	1,341.85	6.12	22.46	84.14	-2,862.59	-5,298.31	5,993.35	5,964.78	28.57	209.783			
1,500.00	1,463.65	1,435.35	1,435.35	6.80	24.09	84.45	-2,862.59	-5,298.31	5,989.59	5,958.71	30.87	194.018			
1,600.00	1,557.15	1,528.85	1,528.85	7.48	25.72	84.77	-2,862.59	-5,298.31	5,986.03	5,952.84	33.18	180.401			
1,700.00	1,650.64	1,622.34	1,622.34	8.16	27.36	85.09	-2,862.59	-5,298.31	5,982.67	5,947.17	35.50	168.532			
1,800.00	1,744.14	1,715.84	1,715.84	8.85	28.99	85.40	-2,862.59	-5,298.31	5,979.53	5,941.71	37.82	158.102			
1,900.00	1,837.64	1,809.34	1,809.34	9.55	30.62	85.72	-2,862.59	-5,298.31	5,976.59	5,936.45	40.15	148.868			
2,000.00	1,931.13	1,902.83	1,902.83	10.24	32.25	86.04	-2,862.59	-5,298.31	5,973.87	5,931.39	42.48	140.641			
2,100.00	2,024.63	2,003.67	2,003.67	10.94	34.01	86.36	-2,862.59	-5,298.31	5,971.35	5,926.42	44.94	132.885			
2,200.00	2,118.12	2,089.82	2,089.82	11.64	35.51	86.67	-2,862.59	-5,298.31	5,969.05	5,921.91	47.14	126.618			
2,300.00	2,211.62	2,183.32	2,183.32	12.35	37.15	86.99	-2,862.59	-5,298.31	5,966.95	5,917.47	49.48	120.598			
2,400.00	2,305.12	2,276.82	2,276.82	13.05	38.78	87.31	-2,862.59	-5,298.31	5,965.06	5,913.25	51.82	115.122			
2,500.00	2,398.61	2,370.31	2,370.31	13.75	40.41	87.63	-2,862.59	-5,298.31	5,963.39	5,909.24	54.15	110.120			
2,600.00	2,492.11	2,463.81	2,463.81	14.46	42.04	87.95	-2,862.59	-5,298.31	5,961.92	5,905.43	56.49	105.534			
2,700.00	2,585.61	2,557.31	2,557.31	15.17	43.67	88.26	-2,862.59	-5,298.31	5,960.67	5,901.84	58.83	101.314			
2,800.00	2,679.10	2,650.80	2,650.80	15.87	45.31	88.58	-2,862.59	-5,298.31	5,959.63	5,898.45	61.17	97.420			
2,900.00	2,772.60	2,744.30	2,744.30	16.58	46.94	88.90	-2,862.59	-5,298.31	5,958.79	5,895.28	63.52	93.816			
3,000.00	2,866.10	2,837.80	2,837.80	17.29	48.57	89.22	-2,862.59	-5,298.31	5,958.17	5,892.32	65.86	90.470			
3,100.00	2,959.59	2,931.29	2,931.29	18.00	50.20	89.54	-2,862.59	-5,298.31	5,957.76	5,889.56	68.20	87.357			
3,200.00	3,053.09	3,024.79	3,024.79	18.71	51.83	89.86	-2,862.59	-5,298.31	5,957.56	5,887.02	70.54	84.454			
3,244.13	3,094.35	3,066.05	3,066.05	19.02	52.55	90.00	-2,862.59	-5,298.31	5,957.54	5,885.97	71.58	83.234			
3,300.00	3,146.59	3,118.29	3,118.29	19.42	53.46	90.18	-2,862.59	-5,298.31	5,957.58	5,884.69	72.88	81.740			
3,400.00	3,240.08	3,211.78	3,211.78	20.13	55.10	90.50	-2,862.59	-5,298.31	5,957.80	5,882.57	75.23	79.198			
3,500.00	3,333.58	3,305.28	3,305.28	20.84	56.73	90.82	-2,862.59	-5,298.31	5,958.24	5,880.67	77.57	76.812			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,600.00	3,427.08	3,401.22	3,398.78	21.55	58.40	91.13	-2,862.59	-5,298.31	5,958.88	5,878.93	79.95	74.529		
3,700.00	3,520.57	3,507.73	3,492.27	22.26	60.26	91.45	-2,862.59	-5,298.31	5,959.74	5,877.22	82.52	72.220		
3,800.00	3,614.07	3,585.77	3,585.77	22.97	61.62	91.77	-2,862.59	-5,298.31	5,960.81	5,876.21	84.59	70.464		
3,900.00	3,707.57	3,679.27	3,679.27	23.69	63.26	92.09	-2,862.59	-5,298.31	5,962.09	5,875.15	86.93	68.581		
4,000.00	3,801.06	3,772.76	3,772.76	24.40	64.89	92.41	-2,862.59	-5,298.31	5,963.58	5,874.30	89.28	66.800		
4,100.00	3,894.56	3,866.26	3,866.26	25.11	66.52	92.73	-2,862.59	-5,298.31	5,965.28	5,873.66	91.62	65.112		
4,200.00	3,988.05	3,959.75	3,959.75	25.82	68.15	93.05	-2,862.59	-5,298.31	5,967.19	5,873.23	93.95	63.511		
4,300.00	4,081.55	4,053.25	4,053.25	26.53	69.78	93.36	-2,862.59	-5,298.31	5,969.31	5,873.01	96.29	61.991		
4,400.00	4,175.05	4,146.75	4,146.75	27.25	71.41	93.68	-2,862.59	-5,298.31	5,971.64	5,873.01	98.63	60.545		
4,500.00	4,268.54	4,240.24	4,240.24	27.96	73.05	94.00	-2,862.59	-5,298.31	5,974.18	5,873.21	100.97	59.169		
4,600.00	4,362.04	4,333.74	4,333.74	28.67	74.68	94.32	-2,862.59	-5,298.31	5,976.93	5,873.62	103.30	57.857		
4,700.00	4,455.54	4,427.24	4,427.24	29.38	76.31	94.63	-2,862.59	-5,298.31	5,979.89	5,874.25	105.64	56.606		
4,800.00	4,549.03	4,520.73	4,520.73	30.10	77.94	94.95	-2,862.59	-5,298.31	5,983.06	5,875.08	107.97	55.412		
4,900.00	4,642.53	4,614.23	4,614.23	30.81	79.57	95.27	-2,862.59	-5,298.31	5,986.43	5,876.12	110.31	54.270		
5,000.00	4,736.03	4,707.73	4,707.73	31.52	81.21	95.58	-2,862.59	-5,298.31	5,990.02	5,877.38	112.64	53.179		
5,100.00	4,829.52	4,801.22	4,801.22	32.24	82.84	95.90	-2,862.59	-5,298.31	5,993.81	5,878.84	114.97	52.133		
5,200.00	4,923.02	4,905.28	4,894.72	32.95	84.65	96.21	-2,862.59	-5,298.31	5,997.81	5,880.32	117.49	51.052		
5,300.00	5,016.52	4,988.22	4,988.22	33.66	86.10	96.53	-2,862.59	-5,298.31	6,002.02	5,882.39	119.63	50.172		
5,400.00	5,110.01	5,081.71	5,081.71	34.38	87.73	96.84	-2,862.59	-5,298.31	6,006.43	5,884.47	121.96	49.250		
5,500.00	5,203.51	5,175.21	5,175.21	35.09	89.36	97.16	-2,862.59	-5,298.31	6,011.05	5,886.77	124.28	48.366		
5,600.00	5,297.01	5,268.71	5,268.71	35.80	91.00	97.47	-2,862.59	-5,298.31	6,015.88	5,889.27	126.61	47.515		
5,700.00	5,390.50	5,362.20	5,362.20	36.52	92.63	97.79	-2,862.59	-5,298.31	6,020.91	5,891.97	128.93	46.698		
5,800.00	5,484.00	5,455.70	5,455.70	37.23	94.26	98.10	-2,862.59	-5,298.31	6,026.14	5,894.89	131.25	45.912		
5,900.00	5,577.50	5,549.20	5,549.20	37.94	95.89	98.41	-2,862.59	-5,298.31	6,031.58	5,898.01	133.58	45.155		
6,000.00	5,670.99	5,642.69	5,642.69	38.66	97.52	98.72	-2,862.59	-5,298.31	6,037.22	5,901.33	135.89	44.426		
6,100.00	5,764.49	5,736.19	5,736.19	39.37	99.16	99.03	-2,862.59	-5,298.31	6,043.07	5,904.86	138.21	43.723		
6,200.00	5,857.98	5,829.68	5,829.68	40.08	100.79	99.34	-2,862.59	-5,298.31	6,049.12	5,908.59	140.53	43.046		
6,300.00	5,951.48	5,923.18	5,923.18	40.80	102.42	99.66	-2,862.59	-5,298.31	6,055.37	5,912.52	142.84	42.392		
6,400.00	6,044.98	6,016.68	6,016.68	41.51	104.05	99.96	-2,862.59	-5,298.31	6,061.82	5,916.66	145.16	41.761		
6,500.00	6,138.47	6,110.17	6,110.17	42.22	105.68	100.27	-2,862.59	-5,298.31	6,068.47	5,921.00	147.47	41.152		
6,600.00	6,231.97	6,203.67	6,203.67	42.94	107.31	100.58	-2,862.59	-5,298.31	6,075.32	5,925.55	149.78	40.563		
6,700.00	6,325.47	6,302.83	6,297.17	43.65	109.05	100.89	-2,862.59	-5,298.31	6,082.37	5,930.19	152.18	39.968		
6,800.00	6,418.96	6,409.34	6,390.66	44.37	110.90	101.20	-2,862.59	-5,298.31	6,089.62	5,934.91	154.71	39.360		
6,900.00	6,512.46	6,484.16	6,484.16	45.08	112.21	101.50	-2,862.59	-5,298.31	6,097.07	5,940.37	156.69	38.911		
7,000.00	6,605.96	6,577.66	6,577.66	45.79	113.84	101.81	-2,862.59	-5,298.31	6,104.71	5,945.72	158.99	38.396		
7,100.00	6,699.45	6,671.15	6,671.15	46.51	115.47	102.12	-2,862.59	-5,298.31	6,112.55	5,951.26	161.29	37.897		
7,200.00	6,792.95	6,764.65	6,764.65	47.22	117.11	102.42	-2,862.59	-5,298.31	6,120.59	5,956.99	163.59	37.413		
7,300.00	6,886.45	6,858.15	6,858.15	47.94	118.74	102.72	-2,862.59	-5,298.31	6,128.82	5,962.93	165.89	36.945		
7,400.00	6,979.94	6,951.64	6,951.64	48.65	120.37	103.03	-2,862.59	-5,298.31	6,137.24	5,969.06	168.18	36.491		
7,500.00	7,073.44	7,045.14	7,045.14	49.36	122.00	103.33	-2,862.59	-5,298.31	6,145.86	5,975.38	170.48	36.051		
7,600.00	7,166.94	7,138.64	7,138.64	50.08	123.63	103.63	-2,862.59	-5,298.31	6,154.67	5,981.90	172.77	35.624		
7,700.00	7,260.43	7,232.13	7,232.13	50.79	125.26	103.93	-2,862.59	-5,298.31	6,163.67	5,988.62	175.06	35.210		
7,710.39	7,270.15	7,241.85	7,241.85	50.87	125.43	103.96	-2,862.59	-5,298.31	6,164.62	5,989.33	175.29	35.168		
7,750.00	7,307.31	7,279.01	7,279.01	51.14	126.08	93.68	-2,862.59	-5,298.31	6,166.88	5,990.69	176.20	35.000		
7,800.00	7,354.38	7,326.08	7,326.08	51.46	126.90	79.88	-2,862.59	-5,298.31	6,165.89	5,988.56	177.33	34.772		
7,850.00	7,401.31	7,373.01	7,373.01	51.75	127.72	66.72	-2,862.59	-5,298.31	6,160.60	5,982.17	178.43	34.526		
7,900.00	7,447.74	7,419.44	7,419.44	52.00	128.53	55.42	-2,862.59	-5,298.31	6,151.06	5,971.55	179.51	34.267		
7,950.00	7,493.32	7,465.02	7,465.02	52.22	129.33	46.36	-2,862.59	-5,298.31	6,137.32	5,956.78	180.54	33.994		
8,000.00	7,537.69	7,509.39	7,509.39	52.41	130.10	39.30	-2,862.59	-5,298.31	6,119.50	5,937.97	181.53	33.711		
8,050.00	7,580.52	7,552.22	7,552.22	52.57	130.85	33.82	-2,862.59	-5,298.31	6,097.71	5,915.24	182.47	33.418		
8,100.00	7,621.49	7,606.81	7,593.19	52.70	131.80	29.52	-2,862.59	-5,298.31	6,072.13	5,888.54	183.59	33.074		
8,150.00	7,660.28	7,631.98	7,631.98	52.81	132.24	26.09	-2,862.59	-5,298.31	6,042.94	5,858.76	184.18	32.810		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,200.00	7,696.59	7,668.29	7,668.29	52.89	132.88	23.28	-2,862.59	-5,298.31	6,010.35	5,825.41	184.94	32.499		
8,250.00	7,730.16	7,701.86	7,701.86	52.95	133.46	20.91	-2,862.59	-5,298.31	5,974.61	5,788.97	185.64	32.184		
8,300.00	7,760.72	7,732.42	7,732.42	52.98	134.00	18.82	-2,862.59	-5,298.31	5,935.99	5,749.72	186.26	31.869		
8,350.00	7,788.05	7,759.75	7,759.75	53.00	134.47	16.89	-2,862.59	-5,298.31	5,894.77	5,707.95	186.82	31.554		
8,400.00	7,811.93	7,783.63	7,783.63	53.00	134.89	14.95	-2,862.59	-5,298.31	5,851.26	5,663.96	187.29	31.241		
8,450.00	7,832.18	7,803.88	7,803.88	52.99	135.24	12.76	-2,862.59	-5,298.31	5,805.79	5,618.10	187.69	30.933		
8,500.00	7,848.65	7,820.35	7,820.35	52.95	135.53	9.90	-2,862.59	-5,298.31	5,758.70	5,570.69	188.01	30.630		
8,550.00	7,861.21	7,832.91	7,832.91	52.91	135.75	5.32	-2,862.59	-5,298.31	5,710.35	5,522.11	188.24	30.335		
8,600.00	7,869.78	7,841.48	7,841.48	52.85	135.90	-4.60	-2,862.59	-5,298.31	5,661.11	5,472.71	188.39	30.049		
8,650.00	7,874.27	7,845.97	7,845.97	52.78	135.98	-39.49	-2,862.59	-5,298.31	5,611.34	5,422.88	188.46	29.774		
8,679.79	7,875.00	7,846.70	7,846.70	52.74	135.99	-90.00	-2,862.59	-5,298.31	5,581.60	5,393.14	188.46	29.616		
8,700.00	7,875.00	7,846.70	7,846.70	52.70	135.99	-90.00	-2,862.59	-5,298.31	5,561.42	5,372.97	188.45	29.511		
8,800.00	7,875.00	7,846.70	7,846.70	52.56	135.99	-90.00	-2,862.59	-5,298.31	5,461.60	5,273.19	188.40	28.989		
8,900.00	7,875.00	7,846.70	7,846.70	52.44	135.99	-90.00	-2,862.59	-5,298.31	5,361.77	5,173.42	188.36	28.466		
9,000.00	7,875.00	7,846.70	7,846.70	52.34	135.99	-90.00	-2,862.59	-5,298.31	5,261.96	5,073.66	188.31	27.944		
9,100.00	7,875.00	7,846.70	7,846.70	52.27	135.99	-90.00	-2,862.59	-5,298.31	5,162.15	4,973.90	188.25	27.421		
9,200.00	7,875.00	7,846.70	7,846.70	52.22	135.99	-90.00	-2,862.59	-5,298.31	5,062.35	4,874.15	188.20	26.899		
9,300.00	7,875.00	7,846.70	7,846.70	52.20	135.99	-90.00	-2,862.59	-5,298.31	4,962.56	4,774.41	188.15	26.376		
9,400.00	7,875.00	7,846.70	7,846.70	52.24	135.99	-90.00	-2,862.59	-5,298.31	4,862.78	4,674.69	188.09	25.853		
9,500.00	7,875.00	7,846.70	7,846.70	52.35	135.99	-90.00	-2,862.59	-5,298.31	4,763.01	4,574.97	188.04	25.330		
9,600.00	7,875.00	7,846.70	7,846.70	52.62	135.99	-90.00	-2,862.59	-5,298.31	4,663.24	4,475.26	187.98	24.807		
9,700.00	7,875.00	7,846.70	7,846.70	53.16	135.99	-90.00	-2,862.59	-5,298.31	4,563.49	4,375.56	187.93	24.283		
9,800.00	7,875.00	7,846.70	7,846.70	54.13	135.99	-90.00	-2,862.59	-5,298.31	4,463.75	4,275.88	187.87	23.760		
9,900.00	7,875.00	7,846.70	7,846.70	55.55	135.99	-90.00	-2,862.59	-5,298.31	4,364.02	4,176.21	187.81	23.237		
10,000.00	7,875.00	7,846.70	7,846.70	57.28	135.99	-90.00	-2,862.59	-5,298.31	4,264.30	4,076.55	187.75	22.713		
10,100.00	7,875.00	7,846.70	7,846.70	59.21	135.99	-90.00	-2,862.59	-5,298.31	4,164.60	3,976.91	187.68	22.189		
10,200.00	7,875.00	7,846.70	7,846.70	61.26	135.99	-90.00	-2,862.59	-5,298.31	4,064.91	3,877.29	187.62	21.666		
10,300.00	7,875.00	7,846.70	7,846.70	63.38	135.99	-90.00	-2,862.59	-5,298.31	3,965.23	3,777.68	187.56	21.142		
10,400.00	7,875.00	7,846.70	7,846.70	65.57	135.99	-90.00	-2,862.59	-5,298.31	3,865.57	3,678.08	187.49	20.617		
10,500.00	7,875.00	7,846.70	7,846.70	67.80	135.99	-90.00	-2,862.59	-5,298.31	3,765.94	3,578.51	187.42	20.093		
10,600.00	7,875.00	7,846.70	7,846.70	70.07	135.99	-90.00	-2,862.59	-5,298.31	3,666.32	3,478.96	187.35	19.569		
10,700.00	7,875.00	7,846.70	7,846.70	72.37	135.99	-90.00	-2,862.59	-5,298.31	3,566.72	3,379.43	187.28	19.044		
10,800.00	7,875.00	7,846.70	7,846.70	74.70	135.99	-90.00	-2,862.59	-5,298.31	3,467.14	3,279.93	187.21	18.520		
10,900.00	7,875.00	7,846.70	7,846.70	77.06	135.99	-90.00	-2,862.59	-5,298.31	3,367.59	3,180.45	187.14	17.995		
11,000.00	7,875.00	7,846.70	7,846.70	79.44	135.99	-90.00	-2,862.59	-5,298.31	3,268.07	3,081.00	187.07	17.470		
11,100.00	7,875.00	7,846.70	7,846.70	81.84	135.99	-90.00	-2,862.59	-5,298.31	3,168.58	2,981.58	187.00	16.945		
11,200.00	7,875.00	7,846.70	7,846.70	84.26	135.99	-90.00	-2,862.59	-5,298.31	3,069.12	2,882.19	186.92	16.419		
11,300.00	7,875.00	7,846.70	7,846.70	86.69	135.99	-90.00	-2,862.59	-5,298.31	2,969.70	2,782.84	186.85	15.893		
11,400.00	7,875.00	7,846.70	7,846.70	89.14	135.99	-90.00	-2,862.59	-5,298.31	2,870.31	2,683.53	186.78	15.367		
11,500.00	7,875.00	7,846.70	7,846.70	91.60	135.99	-90.00	-2,862.59	-5,298.31	2,770.97	2,584.26	186.71	14.841		
11,600.00	7,875.00	7,846.70	7,846.70	94.07	135.99	-90.00	-2,862.59	-5,298.31	2,671.69	2,485.04	186.65	14.314		
11,700.00	7,875.00	7,846.70	7,846.70	96.56	135.99	-90.00	-2,862.59	-5,298.31	2,572.45	2,385.87	186.58	13.787		
11,800.00	7,875.00	7,846.70	7,846.70	99.05	135.99	-90.00	-2,862.59	-5,298.31	2,473.28	2,286.75	186.53	13.260		
11,900.00	7,875.00	7,846.70	7,846.70	101.56	135.99	-90.00	-2,862.59	-5,298.31	2,374.18	2,187.70	186.48	12.731		
12,000.00	7,875.00	7,846.70	7,846.70	104.07	135.99	-90.00	-2,862.59	-5,298.31	2,275.15	2,088.71	186.44	12.203		
12,100.00	7,875.00	7,846.70	7,846.70	106.60	135.99	-90.00	-2,862.59	-5,298.31	2,176.22	1,989.79	186.42	11.673		
12,200.00	7,875.00	7,846.70	7,846.70	109.13	135.99	-90.00	-2,862.59	-5,298.31	2,077.38	1,890.96	186.42	11.143		
12,300.00	7,875.00	7,846.70	7,846.70	111.66	135.99	-90.00	-2,862.59	-5,298.31	1,978.67	1,792.22	186.45	10.612		
12,400.00	7,875.00	7,846.70	7,846.70	114.21	135.99	-90.00	-2,862.59	-5,298.31	1,880.09	1,693.57	186.51	10.080		
12,500.00	7,875.00	7,846.70	7,846.70	116.76	135.99	-90.00	-2,862.59	-5,298.31	1,781.67	1,595.04	186.62	9.547		
12,600.00	7,875.00	7,846.70	7,846.70	119.32	135.99	-90.00	-2,862.59	-5,298.31	1,683.43	1,496.63	186.80	9.012		
12,700.00	7,875.00	7,846.70	7,846.70	121.88	135.99	-90.00	-2,862.59	-5,298.31	1,585.41	1,398.36	187.05	8.476		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,800.00	7,875.00	7,846.70	7,846.70	124.45	135.99	-90.00	-2,862.59	-5,298.31	1,487.66	1,300.24	187.42	7.937		
12,900.00	7,875.00	7,846.70	7,846.70	127.02	135.99	-90.00	-2,862.59	-5,298.31	1,390.23	1,202.28	187.95	7.397		
13,000.00	7,875.00	7,846.70	7,846.70	129.60	135.99	-90.00	-2,862.59	-5,298.31	1,293.19	1,104.52	188.68	6.854		
13,100.00	7,875.00	7,846.70	7,846.70	132.18	135.99	-90.00	-2,862.59	-5,298.31	1,196.64	1,006.95	189.69	6.308		
13,200.00	7,875.00	7,846.70	7,846.70	134.77	135.99	-90.00	-2,862.59	-5,298.31	1,100.71	909.62	191.09	5.760		
13,300.00	7,875.00	7,846.70	7,846.70	137.36	135.99	-90.00	-2,862.59	-5,298.31	1,005.56	812.54	193.02	5.209		
13,400.00	7,875.00	7,846.70	7,846.70	139.96	135.99	-90.00	-2,862.59	-5,298.31	911.46	715.75	195.71	4.657		
13,500.00	7,875.00	7,846.70	7,846.70	142.55	135.99	-90.00	-2,862.59	-5,298.31	818.76	619.31	199.45	4.105		
13,600.00	7,875.00	7,846.70	7,846.70	145.15	135.99	-90.00	-2,862.59	-5,298.31	727.99	523.34	204.65	3.557		
13,700.00	7,875.00	7,846.70	7,846.70	147.76	135.99	-90.00	-2,862.59	-5,298.31	639.97	428.07	211.90	3.020		
13,800.00	7,875.00	7,846.70	7,846.70	150.37	135.99	-90.00	-2,862.59	-5,298.31	556.03	334.08	221.95	2.505		
13,900.00	7,875.00	7,846.70	7,846.70	152.98	135.99	-90.00	-2,862.59	-5,298.31	478.30	242.64	235.66	2.030		
14,000.00	7,875.00	7,846.70	7,846.70	155.59	135.99	-90.00	-2,862.59	-5,298.31	410.34	156.87	253.46	1.619		
14,100.00	7,875.00	7,846.70	7,846.70	158.20	135.99	-90.00	-2,862.59	-5,298.31	357.74	83.73	274.01	1.306	Level 3	
14,200.00	7,875.00	7,846.70	7,846.70	160.82	135.99	-90.00	-2,862.59	-5,298.31	328.00	36.07	291.92	1.124	Level 2	
14,251.99	7,875.00	7,846.70	7,846.70	162.18	135.99	-90.00	-2,862.59	-5,298.31	323.85	26.42	297.43	1.089	Level 2, CC, ES, SF	
14,300.00	7,875.00	7,846.70	7,846.70	163.44	135.99	-90.00	-2,862.59	-5,298.31	327.39	28.12	299.27	1.094	Level 2	
14,400.00	7,875.00	7,846.70	7,846.70	166.06	135.99	-90.00	-2,862.59	-5,298.31	356.07	62.13	293.94	1.211	Level 2	
14,500.00	7,875.00	7,846.70	7,846.70	168.69	135.99	-90.00	-2,862.59	-5,298.31	407.91	126.21	281.70	1.448	Level 3	
14,600.00	7,875.00	7,846.70	7,846.70	171.32	135.99	-90.00	-2,862.59	-5,298.31	475.39	206.91	268.47	1.771		
14,700.00	7,875.00	7,846.70	7,846.70	173.94	135.99	-90.00	-2,862.59	-5,298.31	552.81	295.94	256.86	2.152		
14,800.00	7,875.00	7,846.70	7,846.70	176.57	135.99	-90.00	-2,862.59	-5,298.31	636.55	389.17	247.38	2.573		
14,900.00	7,875.00	7,846.70	7,846.70	179.21	135.99	-90.00	-2,862.59	-5,298.31	724.43	484.63	239.80	3.021		
15,000.00	7,875.00	7,846.70	7,846.70	181.84	135.99	-90.00	-2,862.59	-5,298.31	815.11	581.37	233.74	3.487		
15,100.00	7,875.00	7,846.70	7,846.70	184.48	135.99	-90.00	-2,862.59	-5,298.31	907.75	678.89	228.86	3.966		
15,200.00	7,875.00	7,846.70	7,846.70	187.11	135.99	-90.00	-2,862.59	-5,298.31	1,001.80	776.92	224.88	4.455		
15,300.00	7,875.00	7,846.70	7,846.70	189.75	135.99	-90.00	-2,862.59	-5,298.31	1,096.91	875.30	221.61	4.950		
15,400.00	7,875.00	7,846.70	7,846.70	192.39	135.99	-90.00	-2,862.59	-5,298.31	1,192.82	973.94	218.88	5.450		
15,500.00	7,875.00	7,846.70	7,846.70	195.03	135.99	-90.00	-2,862.59	-5,298.31	1,289.35	1,072.77	216.58	5.953		
15,600.00	7,875.00	7,846.70	7,846.70	197.67	135.99	-90.00	-2,862.59	-5,298.31	1,386.37	1,171.74	214.63	6.459		
15,700.00	7,875.00	7,846.70	7,846.70	200.32	135.99	-90.00	-2,862.59	-5,298.31	1,483.79	1,270.83	212.95	6.968		
15,800.00	7,875.00	7,846.70	7,846.70	202.96	135.99	-90.00	-2,862.59	-5,298.31	1,581.53	1,370.02	211.51	7.477		
15,900.00	7,875.00	7,846.70	7,846.70	205.61	135.99	-90.00	-2,862.59	-5,298.31	1,679.53	1,469.29	210.24	7.989		
16,000.00	7,875.00	7,846.70	7,846.70	208.26	135.99	-90.00	-2,862.59	-5,298.31	1,777.76	1,568.62	209.14	8.500		
16,100.00	7,875.00	7,846.70	7,846.70	210.91	135.99	-90.00	-2,862.59	-5,298.31	1,876.18	1,668.02	208.16	9.013		
16,200.00	7,875.00	7,846.70	7,846.70	213.56	135.99	-90.00	-2,862.59	-5,298.31	1,974.75	1,767.46	207.30	9.526		
16,300.00	7,875.00	7,846.70	7,846.70	216.21	135.99	-90.00	-2,862.59	-5,298.31	2,073.46	1,866.94	206.52	10.040		
16,400.00	7,875.00	7,846.70	7,846.70	218.86	135.99	-90.00	-2,862.59	-5,298.31	2,172.29	1,966.46	205.83	10.554		
16,500.00	7,875.00	7,846.70	7,846.70	221.51	135.99	-90.00	-2,862.59	-5,298.31	2,271.22	2,066.01	205.21	11.068		
16,600.00	7,875.00	7,846.70	7,846.70	224.16	135.99	-90.00	-2,862.59	-5,298.31	2,370.24	2,165.59	204.65	11.582		
16,700.00	7,875.00	7,846.70	7,846.70	226.82	135.99	-90.00	-2,862.59	-5,298.31	2,469.34	2,265.20	204.15	12.096		
16,800.00	7,875.00	7,846.70	7,846.70	229.47	135.99	-90.00	-2,862.59	-5,298.31	2,568.51	2,364.83	203.69	12.610		
16,900.00	7,875.00	7,846.70	7,846.70	232.13	135.99	-90.00	-2,862.59	-5,298.31	2,667.74	2,464.48	203.27	13.124		
17,000.00	7,875.00	7,846.70	7,846.70	234.79	135.99	-90.00	-2,862.59	-5,298.31	2,767.03	2,564.15	202.89	13.638		
17,100.00	7,875.00	7,846.70	7,846.70	237.44	135.99	-90.00	-2,862.59	-5,298.31	2,866.37	2,663.83	202.54	14.152		
17,200.00	7,875.00	7,846.70	7,846.70	240.10	135.99	-90.00	-2,862.59	-5,298.31	2,965.75	2,763.53	202.22	14.666		
17,300.00	7,875.00	7,846.70	7,846.70	242.76	135.99	-90.00	-2,862.59	-5,298.31	3,065.17	2,863.25	201.92	15.180		
17,400.00	7,875.00	7,846.70	7,846.70	245.42	135.99	-90.00	-2,862.59	-5,298.31	3,164.63	2,962.98	201.65	15.694		
17,500.00	7,875.00	7,846.70	7,846.70	248.08	135.99	-90.00	-2,862.59	-5,298.31	3,264.12	3,062.72	201.40	16.207		
17,600.00	7,875.00	7,846.70	7,846.70	250.74	135.99	-90.00	-2,862.59	-5,298.31	3,363.64	3,162.47	201.17	16.720		
17,700.00	7,875.00	7,846.70	7,846.70	253.41	135.99	-90.00	-2,862.59	-5,298.31	3,463.19	3,262.23	200.96	17.234		
17,800.00	7,875.00	7,846.70	7,846.70	256.07	135.99	-90.00	-2,862.59	-5,298.31	3,562.76	3,362.00	200.76	17.746		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 0-INC-ONLY												Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,900.00	7,875.00	7,846.70	7,846.70	258.73	135.99	-90.00	-2,862.59	-5,298.31	3,662.36	3,461.78	200.58	18.259		
18,000.00	7,875.00	7,846.70	7,846.70	261.39	135.99	-90.00	-2,862.59	-5,298.31	3,761.98	3,561.57	200.41	18.771		
18,100.00	7,875.00	7,846.70	7,846.70	264.06	135.99	-90.00	-2,862.59	-5,298.31	3,861.62	3,661.37	200.25	19.284		
18,200.00	7,875.00	7,846.70	7,846.70	266.72	135.99	-90.00	-2,862.59	-5,298.31	3,961.28	3,761.17	200.11	19.796		
18,300.00	7,875.00	7,846.70	7,846.70	269.39	135.99	-90.00	-2,862.59	-5,298.31	4,060.95	3,860.98	199.97	20.307		
18,400.00	7,875.00	7,846.70	7,846.70	272.05	135.99	-90.00	-2,862.59	-5,298.31	4,160.64	3,960.79	199.85	20.819		
18,500.00	7,875.00	7,846.70	7,846.70	274.72	135.99	-90.00	-2,862.59	-5,298.31	4,260.34	4,060.61	199.73	21.330		
18,575.92	7,875.00	7,846.70	7,846.70	276.74	135.99	-90.00	-2,862.59	-5,298.31	4,336.04	4,136.39	199.65	21.718		

### Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - ABND VERT STATE-SMITH 1-16 - OWB - Design #1	Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-83.75	1,017.63	-9,290.13	9,346.05						
100.00	100.00	18.70	18.70	0.13	0.15	-83.75	1,017.63	-9,290.13	9,345.70	9,345.41	0.28	N/A			
200.00	200.00	118.70	118.70	0.49	1.11	-83.75	1,017.63	-9,290.13	9,345.70	9,344.09	1.60	5,824.046			
250.00	250.00	168.70	168.70	0.67	1.98	-83.75	1,017.63	-9,290.13	9,345.70	9,343.04	2.66	3,517.950			
300.00	300.00	218.70	218.70	0.84	2.86	116.23	1,017.63	-9,290.13	9,345.89	9,342.19	3.70	2,525.693			
400.00	399.93	318.63	318.63	1.19	4.60	116.22	1,017.63	-9,290.13	9,347.43	9,341.65	5.78	1,615.980			
500.00	499.68	418.38	418.38	1.54	6.34	116.20	1,017.63	-9,290.13	9,350.52	9,342.64	7.88	1,186.311			
600.00	599.13	517.83	517.83	1.92	8.08	116.18	1,017.63	-9,290.13	9,355.15	9,345.16	9.99	936.359			
700.00	698.15	616.85	616.85	2.32	9.81	116.14	1,017.63	-9,290.13	9,361.34	9,349.23	12.11	772.865			
800.00	796.63	715.33	715.33	2.74	11.52	116.10	1,017.63	-9,290.13	9,369.08	9,354.83	14.25	657.551			
900.00	894.44	813.14	813.14	3.21	13.23	116.04	1,017.63	-9,290.13	9,378.38	9,361.98	16.40	571.831			
1,000.00	991.46	910.16	910.16	3.71	14.93	115.97	1,017.63	-9,290.13	9,389.25	9,370.68	18.57	505.599			
1,100.00	1,087.58	1,006.28	1,006.28	4.25	16.60	115.90	1,017.63	-9,290.13	9,401.69	9,380.93	20.76	452.894			
1,200.00	1,182.68	1,101.38	1,101.38	4.83	18.26	115.80	1,017.63	-9,290.13	9,415.72	9,392.76	22.97	409.967			
1,288.87	1,266.25	1,184.95	1,184.95	5.39	19.72	115.71	1,017.63	-9,290.13	9,429.53	9,404.58	24.95	378.010			
1,300.00	1,276.66	1,204.64	1,195.36	5.46	20.07	115.73	1,017.63	-9,290.13	9,431.33	9,405.98	25.36	371.950			
1,400.00	1,370.15	1,288.85	1,288.85	6.12	21.53	115.91	1,017.63	-9,290.13	9,447.64	9,420.20	27.43	344.381			
1,500.00	1,463.65	1,382.35	1,382.35	6.80	23.17	116.10	1,017.63	-9,290.13	9,464.05	9,434.37	29.68	318.846			
1,600.00	1,557.15	1,475.85	1,475.85	7.48	24.80	116.28	1,017.63	-9,290.13	9,480.56	9,448.63	31.94	296.851			
1,700.00	1,650.64	1,569.34	1,569.34	8.16	26.43	116.46	1,017.63	-9,290.13	9,497.18	9,462.98	34.20	277.724			
1,800.00	1,744.14	1,662.84	1,662.84	8.85	28.06	116.64	1,017.63	-9,290.13	9,513.90	9,477.44	36.46	260.948			
1,900.00	1,837.64	1,756.34	1,756.34	9.55	29.69	116.82	1,017.63	-9,290.13	9,530.73	9,492.00	38.72	246.120			
2,000.00	1,931.13	1,849.83	1,849.83	10.24	31.33	117.00	1,017.63	-9,290.13	9,547.65	9,506.66	40.99	232.926			
2,100.00	2,024.63	1,943.33	1,943.33	10.94	32.96	117.18	1,017.63	-9,290.13	9,564.68	9,521.42	43.26	221.112			
2,200.00	2,118.12	2,036.82	2,036.82	11.64	34.59	117.36	1,017.63	-9,290.13	9,581.81	9,536.28	45.52	210.474			
2,300.00	2,211.62	2,130.32	2,130.32	12.35	36.22	117.54	1,017.63	-9,290.13	9,599.04	9,551.25	47.79	200.847			
2,400.00	2,305.12	2,223.82	2,223.82	13.05	37.85	117.72	1,017.63	-9,290.13	9,616.37	9,566.31	50.06	192.094			
2,500.00	2,398.61	2,317.31	2,317.31	13.75	39.48	117.90	1,017.63	-9,290.13	9,633.80	9,581.47	52.33	184.103			
2,600.00	2,492.11	2,410.81	2,410.81	14.46	41.12	118.07	1,017.63	-9,290.13	9,651.32	9,596.73	54.60	176.779			
2,700.00	2,585.61	2,504.31	2,504.31	15.17	42.75	118.25	1,017.63	-9,290.13	9,668.95	9,612.09	56.86	170.043			
2,800.00	2,679.10	2,602.20	2,597.80	15.87	44.46	118.42	1,017.63	-9,290.13	9,686.67	9,627.47	59.20	163.614			
2,900.00	2,772.60	2,708.70	2,691.30	16.58	46.32	118.60	1,017.63	-9,290.13	9,704.50	9,642.80	61.70	157.294			
3,000.00	2,866.10	2,784.80	2,784.80	17.29	47.64	118.77	1,017.63	-9,290.13	9,722.41	9,658.76	63.66	152.731			
3,100.00	2,959.59	2,878.29	2,878.29	18.00	49.28	118.95	1,017.63	-9,290.13	9,740.43	9,674.51	65.92	147.761			
3,200.00	3,053.09	2,971.79	2,971.79	18.71	50.91	119.12	1,017.63	-9,290.13	9,758.54	9,690.36	68.18	143.123			
3,300.00	3,146.59	3,065.29	3,065.29	19.42	52.54	119.29	1,017.63	-9,290.13	9,776.74	9,706.30	70.44	138.788			
3,400.00	3,240.08	3,158.78	3,158.78	20.13	54.17	119.47	1,017.63	-9,290.13	9,795.04	9,722.34	72.70	134.725			
3,500.00	3,333.58	3,252.28	3,252.28	20.84	55.80	119.64	1,017.63	-9,290.13	9,813.44	9,738.47	74.96	130.910			
3,600.00	3,427.08	3,345.78	3,345.78	21.55	57.43	119.81	1,017.63	-9,290.13	9,831.92	9,754.70	77.22	127.322			
3,700.00	3,520.57	3,439.27	3,439.27	22.26	59.07	119.98	1,017.63	-9,290.13	9,850.50	9,771.03	79.48	123.940			
3,800.00	3,614.07	3,532.77	3,532.77	22.97	60.70	120.15	1,017.63	-9,290.13	9,869.18	9,787.44	81.73	120.748			
3,900.00	3,707.57	3,626.27	3,626.27	23.69	62.33	120.32	1,017.63	-9,290.13	9,887.94	9,803.95	83.99	117.730			
4,000.00	3,801.06	3,719.76	3,719.76	24.40	63.96	120.49	1,017.63	-9,290.13	9,906.80	9,820.56	86.24	114.873			
4,100.00	3,894.56	3,813.26	3,813.26	25.11	65.59	120.65	1,017.63	-9,290.13	9,925.75	9,837.25	88.49	112.164			
4,200.00	3,988.05	3,906.75	3,906.75	25.82	67.23	120.82	1,017.63	-9,290.13	9,944.78	9,854.04	90.74	109.592			
4,300.00	4,081.55	4,000.25	4,000.25	26.53	68.86	120.99	1,017.63	-9,290.13	9,963.91	9,870.92	92.99	107.147			
4,400.00	4,175.05	4,106.25	4,093.75	27.25	70.71	121.16	1,017.63	-9,290.13	9,983.13	9,887.67	95.46	104.580			
8,900.00	7,875.00	7,806.30	7,793.70	52.44	135.29	90.00	1,017.63	-9,290.13	9,995.19	9,810.61	184.58	54.150			
9,000.00	7,875.00	7,806.30	7,793.70	52.34	135.29	90.00	1,017.63	-9,290.13	9,901.82	9,716.85	184.97	53.531			
9,100.00	7,875.00	7,806.30	7,793.70	52.27	135.29	90.00	1,017.63	-9,290.13	9,808.58	9,623.19	185.39	52.909			
9,200.00	7,875.00	7,806.30	7,793.70	52.22	135.29	90.00	1,017.63	-9,290.13	9,715.47	9,529.64	185.82	52.283			
9,300.00	7,875.00	7,806.30	7,793.70	52.20	135.29	90.00	1,017.63	-9,290.13	9,622.50	9,436.21	186.29	51.654			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,875.00	7,806.30	7,793.70	52.24	135.29	90.00	1,017.63	-9,290.13	9,529.67	9,342.89	186.78	51.021		
9,500.00	7,875.00	7,806.30	7,793.70	52.35	135.29	90.00	1,017.63	-9,290.13	9,436.98	9,249.69	187.30	50.385		
9,600.00	7,875.00	7,806.30	7,793.70	52.62	135.29	90.00	1,017.63	-9,290.13	9,344.45	9,156.61	187.84	49.746		
9,700.00	7,875.00	7,806.30	7,793.70	53.16	135.29	90.00	1,017.63	-9,290.13	9,252.08	9,063.66	188.42	49.104		
9,800.00	7,875.00	7,806.30	7,793.70	54.13	135.29	90.00	1,017.63	-9,290.13	9,159.86	8,970.84	189.02	48.459		
9,900.00	7,875.00	7,806.30	7,793.70	55.55	135.29	90.00	1,017.63	-9,290.13	9,067.81	8,878.15	189.66	47.811		
10,000.00	7,875.00	7,806.30	7,793.70	57.28	135.29	90.00	1,017.63	-9,290.13	8,975.93	8,785.60	190.33	47.161		
10,100.00	7,875.00	7,806.30	7,793.70	59.21	135.29	90.00	1,017.63	-9,290.13	8,884.22	8,693.20	191.03	46.508		
10,200.00	7,875.00	7,806.30	7,793.70	61.26	135.29	90.00	1,017.63	-9,290.13	8,792.70	8,600.94	191.76	45.853		
10,300.00	7,875.00	7,806.30	7,793.70	63.38	135.29	90.00	1,017.63	-9,290.13	8,701.36	8,508.84	192.52	45.196		
10,400.00	7,875.00	7,806.30	7,793.70	65.57	135.29	90.00	1,017.63	-9,290.13	8,610.22	8,416.89	193.32	44.538		
10,500.00	7,875.00	7,806.30	7,793.70	67.80	135.29	90.00	1,017.63	-9,290.13	8,519.27	8,325.11	194.16	43.878		
10,600.00	7,875.00	7,806.30	7,793.70	70.07	135.29	90.00	1,017.63	-9,290.13	8,428.53	8,233.50	195.03	43.217		
10,700.00	7,875.00	7,806.30	7,793.70	72.37	135.29	90.00	1,017.63	-9,290.13	8,338.00	8,142.06	195.94	42.555		
10,800.00	7,875.00	7,806.30	7,793.70	74.70	135.29	90.00	1,017.63	-9,290.13	8,247.69	8,050.81	196.88	41.892		
10,900.00	7,875.00	7,806.30	7,793.70	77.06	135.29	90.00	1,017.63	-9,290.13	8,157.60	7,959.74	197.86	41.228		
11,000.00	7,875.00	7,806.30	7,793.70	79.44	135.29	90.00	1,017.63	-9,290.13	8,067.75	7,868.86	198.89	40.565		
11,100.00	7,875.00	7,806.30	7,793.70	81.84	135.29	90.00	1,017.63	-9,290.13	7,978.14	7,778.19	199.95	39.901		
11,200.00	7,875.00	7,806.30	7,793.70	84.26	135.29	90.00	1,017.63	-9,290.13	7,888.78	7,687.73	201.05	39.238		
11,300.00	7,875.00	7,806.30	7,793.70	86.69	135.29	90.00	1,017.63	-9,290.13	7,799.68	7,597.48	202.20	38.575		
11,400.00	7,875.00	7,806.30	7,793.70	89.14	135.29	90.00	1,017.63	-9,290.13	7,710.84	7,507.46	203.38	37.913		
11,500.00	7,875.00	7,806.30	7,793.70	91.60	135.29	90.00	1,017.63	-9,290.13	7,622.28	7,417.67	204.62	37.252		
11,600.00	7,875.00	7,806.30	7,793.70	94.07	135.29	90.00	1,017.63	-9,290.13	7,534.01	7,328.12	205.89	36.592		
11,700.00	7,875.00	7,806.30	7,793.70	96.56	135.29	90.00	1,017.63	-9,290.13	7,446.04	7,238.83	207.21	35.934		
11,800.00	7,875.00	7,806.30	7,793.70	99.05	135.29	90.00	1,017.63	-9,290.13	7,358.37	7,149.79	208.58	35.278		
11,900.00	7,875.00	7,806.30	7,793.70	101.56	135.29	90.00	1,017.63	-9,290.13	7,271.02	7,061.02	210.00	34.625		
12,000.00	7,875.00	7,806.30	7,793.70	104.07	135.29	90.00	1,017.63	-9,290.13	7,184.00	6,972.54	211.46	33.973		
12,100.00	7,875.00	7,806.30	7,793.70	106.60	135.29	90.00	1,017.63	-9,290.13	7,097.32	6,884.35	212.97	33.325		
12,200.00	7,875.00	7,806.30	7,793.70	109.13	135.29	90.00	1,017.63	-9,290.13	7,011.00	6,796.46	214.54	32.680		
12,300.00	7,875.00	7,806.30	7,793.70	111.66	135.29	90.00	1,017.63	-9,290.13	6,925.04	6,708.89	216.15	32.038		
12,400.00	7,875.00	7,806.30	7,793.70	114.21	135.29	90.00	1,017.63	-9,290.13	6,839.47	6,621.65	217.82	31.400		
12,500.00	7,875.00	7,806.30	7,793.70	116.76	135.29	90.00	1,017.63	-9,290.13	6,754.29	6,534.75	219.54	30.765		
12,600.00	7,875.00	7,806.30	7,793.70	119.32	135.29	90.00	1,017.63	-9,290.13	6,669.53	6,448.21	221.32	30.135		
12,700.00	7,875.00	7,806.30	7,793.70	121.88	135.29	90.00	1,017.63	-9,290.13	6,585.19	6,362.04	223.15	29.510		
12,800.00	7,875.00	7,806.30	7,793.70	124.45	135.29	90.00	1,017.63	-9,290.13	6,501.30	6,276.25	225.05	28.889		
12,900.00	7,875.00	7,806.30	7,793.70	127.02	135.29	90.00	1,017.63	-9,290.13	6,417.87	6,190.87	227.00	28.273		
13,000.00	7,875.00	7,806.30	7,793.70	129.60	135.29	90.00	1,017.63	-9,290.13	6,334.91	6,105.91	229.01	27.663		
13,100.00	7,875.00	7,806.30	7,793.70	132.18	135.29	90.00	1,017.63	-9,290.13	6,252.46	6,021.38	231.08	27.058		
13,200.00	7,875.00	7,806.30	7,793.70	134.77	135.29	90.00	1,017.63	-9,290.13	6,170.53	5,937.32	233.21	26.459		
13,300.00	7,875.00	7,806.30	7,793.70	137.36	135.29	90.00	1,017.63	-9,290.13	6,089.13	5,853.72	235.41	25.866		
13,400.00	7,875.00	7,806.30	7,793.70	139.96	135.29	90.00	1,017.63	-9,290.13	6,008.30	5,770.63	237.67	25.280		
13,500.00	7,875.00	7,806.30	7,793.70	142.55	135.29	90.00	1,017.63	-9,290.13	5,928.05	5,688.05	240.00	24.701		
13,600.00	7,875.00	7,806.30	7,793.70	145.15	135.29	90.00	1,017.63	-9,290.13	5,848.41	5,606.02	242.39	24.128		
13,700.00	7,875.00	7,806.30	7,793.70	147.76	135.29	90.00	1,017.63	-9,290.13	5,769.40	5,524.55	244.85	23.563		
13,800.00	7,875.00	7,806.30	7,793.70	150.37	135.29	90.00	1,017.63	-9,290.13	5,691.06	5,443.67	247.38	23.005		
13,900.00	7,875.00	7,806.30	7,793.70	152.98	135.29	90.00	1,017.63	-9,290.13	5,613.40	5,363.41	249.99	22.455		
14,000.00	7,875.00	7,806.30	7,793.70	155.59	135.29	90.00	1,017.63	-9,290.13	5,536.46	5,283.80	252.66	21.913		
14,100.00	7,875.00	7,806.30	7,793.70	158.20	135.29	90.00	1,017.63	-9,290.13	5,460.27	5,204.86	255.41	21.379		
14,200.00	7,875.00	7,806.30	7,793.70	160.82	135.29	90.00	1,017.63	-9,290.13	5,384.85	5,126.63	258.23	20.853		
14,300.00	7,875.00	7,806.30	7,793.70	163.44	135.29	90.00	1,017.63	-9,290.13	5,310.25	5,049.13	261.12	20.336		
14,400.00	7,875.00	7,806.30	7,793.70	166.06	135.29	90.00	1,017.63	-9,290.13	5,236.50	4,972.41	264.09	19.829		
14,500.00	7,875.00	7,806.30	7,793.70	168.69	135.29	90.00	1,017.63	-9,290.13	5,163.63	4,896.50	267.13	19.330		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,600.00	7,875.00	7,806.30	7,793.70	171.32	135.29	90.00	1,017.63	-9,290.13	5,091.68	4,821.43	270.25	18.841		
14,700.00	7,875.00	7,806.30	7,793.70	173.94	135.29	90.00	1,017.63	-9,290.13	5,020.69	4,747.24	273.44	18.361		
14,800.00	7,875.00	7,806.30	7,793.70	176.57	135.29	90.00	1,017.63	-9,290.13	4,950.70	4,673.99	276.71	17.891		
14,900.00	7,875.00	7,806.30	7,793.70	179.21	135.29	90.00	1,017.63	-9,290.13	4,881.76	4,601.70	280.06	17.431		
15,000.00	7,875.00	7,806.30	7,793.70	181.84	135.29	90.00	1,017.63	-9,290.13	4,813.91	4,530.43	283.47	16.982		
15,100.00	7,875.00	7,806.30	7,793.70	184.48	135.29	90.00	1,017.63	-9,290.13	4,747.19	4,460.22	286.97	16.543		
15,200.00	7,875.00	7,806.30	7,793.70	187.11	135.29	90.00	1,017.63	-9,290.13	4,681.66	4,391.13	290.53	16.114		
15,300.00	7,875.00	7,806.30	7,793.70	189.75	135.29	90.00	1,017.63	-9,290.13	4,617.37	4,323.20	294.16	15.697		
15,400.00	7,875.00	7,806.30	7,793.70	192.39	135.29	90.00	1,017.63	-9,290.13	4,554.36	4,256.50	297.86	15.290		
15,500.00	7,875.00	7,806.30	7,793.70	195.03	135.29	90.00	1,017.63	-9,290.13	4,492.70	4,191.07	301.63	14.895		
15,600.00	7,875.00	7,806.30	7,793.70	197.67	135.29	90.00	1,017.63	-9,290.13	4,432.43	4,126.97	305.46	14.511		
15,700.00	7,875.00	7,806.30	7,793.70	200.32	135.29	90.00	1,017.63	-9,290.13	4,373.62	4,064.28	309.34	14.138		
15,800.00	7,875.00	7,806.30	7,793.70	202.96	135.29	90.00	1,017.63	-9,290.13	4,316.33	4,003.05	313.28	13.778		
15,900.00	7,875.00	7,806.30	7,793.70	205.61	135.29	90.00	1,017.63	-9,290.13	4,260.61	3,943.34	317.27	13.429		
16,000.00	7,875.00	7,806.30	7,793.70	208.26	135.29	90.00	1,017.63	-9,290.13	4,206.54	3,885.23	321.31	13.092		
16,100.00	7,875.00	7,806.30	7,793.70	210.91	135.29	90.00	1,017.63	-9,290.13	4,154.16	3,828.78	325.38	12.767		
16,200.00	7,875.00	7,806.30	7,793.70	213.56	135.29	90.00	1,017.63	-9,290.13	4,103.56	3,774.08	329.48	12.455		
16,300.00	7,875.00	7,806.30	7,793.70	216.21	135.29	90.00	1,017.63	-9,290.13	4,054.79	3,721.19	333.61	12.154		
16,400.00	7,875.00	7,806.30	7,793.70	218.86	135.29	90.00	1,017.63	-9,290.13	4,007.93	3,670.18	337.75	11.867		
16,500.00	7,875.00	7,806.30	7,793.70	221.51	135.29	90.00	1,017.63	-9,290.13	3,963.03	3,621.14	341.89	11.592		
16,600.00	7,875.00	7,806.30	7,793.70	224.16	135.29	90.00	1,017.63	-9,290.13	3,920.17	3,574.14	346.03	11.329		
16,700.00	7,875.00	7,806.30	7,793.70	226.82	135.29	90.00	1,017.63	-9,290.13	3,879.41	3,529.26	350.15	11.079		
16,800.00	7,875.00	7,806.30	7,793.70	229.47	135.29	90.00	1,017.63	-9,290.13	3,840.83	3,486.58	354.25	10.842		
16,900.00	7,875.00	7,806.30	7,793.70	232.13	135.29	90.00	1,017.63	-9,290.13	3,804.48	3,446.18	358.31	10.618		
17,000.00	7,875.00	7,806.30	7,793.70	234.79	135.29	90.00	1,017.63	-9,290.13	3,770.44	3,408.13	362.31	10.407		
17,100.00	7,875.00	7,806.30	7,793.70	237.44	135.29	90.00	1,017.63	-9,290.13	3,738.76	3,372.51	366.26	10.208		
17,200.00	7,875.00	7,806.30	7,793.70	240.10	135.29	90.00	1,017.63	-9,290.13	3,709.51	3,339.39	370.12	10.022		
17,300.00	7,875.00	7,806.30	7,793.70	242.76	135.29	90.00	1,017.63	-9,290.13	3,682.75	3,308.85	373.90	9.850		
17,400.00	7,875.00	7,806.30	7,793.70	245.42	135.29	90.00	1,017.63	-9,290.13	3,658.52	3,280.95	377.57	9.690		
17,500.00	7,875.00	7,806.30	7,793.70	248.08	135.29	90.00	1,017.63	-9,290.13	3,636.88	3,255.76	381.12	9.543		
17,600.00	7,875.00	7,806.30	7,793.70	250.74	135.29	90.00	1,017.63	-9,290.13	3,617.87	3,233.33	384.54	9.408		
17,700.00	7,875.00	7,806.30	7,793.70	253.41	135.29	90.00	1,017.63	-9,290.13	3,601.54	3,213.72	387.82	9.287		
17,800.00	7,875.00	7,806.30	7,793.70	256.07	135.29	90.00	1,017.63	-9,290.13	3,587.93	3,196.99	390.94	9.178		
17,900.00	7,875.00	7,806.30	7,793.70	258.73	135.29	90.00	1,017.63	-9,290.13	3,577.06	3,183.16	393.90	9.081		
18,000.00	7,875.00	7,806.30	7,793.70	261.39	135.29	90.00	1,017.63	-9,290.13	3,568.96	3,172.29	396.68	8.997		
18,100.00	7,875.00	7,806.30	7,793.70	264.06	135.29	90.00	1,017.63	-9,290.13	3,563.65	3,164.38	399.27	8.925		
18,200.00	7,875.00	7,806.30	7,793.70	266.72	135.29	90.00	1,017.63	-9,290.13	3,561.15	3,159.48	401.67	8.866		
18,239.36	7,875.00	7,806.30	7,793.70	267.77	135.29	90.00	1,017.63	-9,290.13	3,560.93	3,158.37	402.56	8.846 CC		
18,300.00	7,875.00	7,806.30	7,793.70	269.39	135.29	90.00	1,017.63	-9,290.13	3,561.44	3,157.58	403.87	8.818 ES		
18,400.00	7,875.00	7,806.30	7,793.70	272.05	135.29	90.00	1,017.63	-9,290.13	3,564.55	3,158.69	405.86	8.783		
18,500.00	7,875.00	7,806.30	7,793.70	274.72	135.29	90.00	1,017.63	-9,290.13	3,570.45	3,162.82	407.64	8.759		
18,575.92	7,875.00	7,806.30	7,793.70	276.74	135.29	90.00	1,017.63	-9,290.13	3,576.80	3,167.95	408.85	8.748 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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 94-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-100.18	0.00	100.18						
100.00	100.00	100.03	100.03	0.13	0.13	-179.96	-100.01	-0.07	100.01	99.75	0.27	375.643			
200.00	200.00	199.91	199.91	0.49	0.50	-179.78	-99.76	-0.38	99.76	98.77	0.99	100.296			
250.00	250.00	249.91	249.91	0.67	0.68	-179.65	-99.66	-0.60	99.66	98.31	1.35	73.675			
300.00	300.00	299.90	299.90	0.84	0.86	20.54	-99.55	-0.81	99.15	97.44	1.70	58.213			
400.00	399.93	399.79	399.78	1.19	1.22	21.56	-99.36	-1.26	95.71	93.30	2.40	39.838			
500.00	499.68	499.45	499.44	1.54	1.57	23.58	-99.22	-1.74	89.14	86.03	3.11	28.626			
600.00	599.13	598.95	598.94	1.92	1.93	27.02	-99.14	-2.22	79.64	75.81	3.83	20.777			
700.00	698.15	698.08	698.07	2.32	2.28	32.83	-98.78	-2.51	67.23	62.67	4.56	14.736			
800.00	796.63	796.45	796.44	2.74	2.63	43.64	-98.39	-2.90	53.20	47.88	5.32	10.002			
900.00	894.44	894.15	894.14	3.21	2.98	65.00	-97.97	-3.32	40.57	34.42	6.15	6.596			
971.19	963.60	963.22	963.21	3.56	3.23	89.44	-97.75	-3.56	36.75	29.96	6.79	5.412	CC, ES		
1,000.00	991.46	991.06	991.05	3.71	3.33	100.41	-97.71	-3.65	37.48	30.46	7.02	5.337			
1,100.00	1,087.58	1,087.20	1,087.18	4.25	3.67	131.67	-97.82	-3.95	50.75	43.05	7.70	6.591			
1,200.00	1,182.68	1,182.40	1,182.39	4.83	4.00	148.75	-98.09	-4.22	75.33	67.00	8.33	9.042			
1,288.87	1,266.25	1,265.97	1,265.95	5.39	4.29	157.02	-98.37	-4.47	102.61	93.69	8.92	11.502			
1,300.00	1,276.66	1,276.36	1,276.34	5.46	4.33	157.82	-98.40	-4.51	106.29	97.29	9.00	11.810			
1,400.00	1,370.15	1,369.89	1,369.88	6.12	4.65	163.08	-98.68	-4.88	140.00	130.32	9.68	14.460			
1,500.00	1,463.65	1,463.22	1,463.21	6.80	4.99	166.27	-98.97	-5.34	174.40	164.02	10.38	16.802			
1,600.00	1,557.15	1,556.86	1,556.84	7.48	5.32	168.41	-99.21	-5.83	209.18	198.09	11.09	18.862			
1,700.00	1,650.64	1,650.21	1,650.19	8.16	5.65	169.93	-99.50	-6.38	244.12	232.32	11.80	20.660			
1,800.00	1,744.14	1,743.28	1,743.25	8.85	5.98	171.04	-99.74	-7.06	279.29	266.77	12.52	22.301			
1,900.00	1,837.64	1,836.96	1,836.93	9.55	6.32	171.91	-99.91	-7.76	314.60	301.35	13.25	23.742			
2,000.00	1,931.13	1,930.47	1,930.44	10.24	6.65	172.61	-100.12	-8.39	349.89	335.91	13.98	25.029			
2,100.00	2,024.63	2,023.91	2,023.87	10.94	6.99	173.19	-100.31	-9.01	385.24	370.53	14.71	26.189			
2,200.00	2,118.12	2,117.49	2,117.46	11.64	7.32	173.67	-100.49	-9.60	420.61	405.16	15.44	27.236			
2,300.00	2,211.62	2,211.15	2,211.11	12.35	7.66	174.09	-100.68	-10.14	455.97	439.79	16.18	28.184			
2,400.00	2,305.12	2,304.85	2,304.82	13.05	7.98	174.47	-100.83	-10.51	491.31	474.40	16.90	29.067			
2,500.00	2,398.61	2,398.35	2,398.32	13.75	8.29	174.84	-100.84	-10.51	526.64	509.02	17.62	29.892			
2,600.00	2,492.11	2,492.81	2,492.78	14.46	8.61	175.18	-100.82	-10.40	561.96	543.62	18.34	30.645			
2,700.00	2,585.61	2,586.31	2,586.28	15.17	8.93	175.47	-101.01	-10.21	597.08	578.02	19.06	31.328			
2,800.00	2,679.10	2,678.16	2,678.13	15.87	9.25	175.72	-101.02	-10.24	632.47	612.69	19.78	31.978			
2,900.00	2,772.60	2,771.52	2,771.48	16.58	9.58	175.94	-100.92	-10.35	668.00	647.49	20.51	32.569			
3,000.00	2,866.10	2,865.64	2,865.61	17.29	9.90	176.15	-100.84	-10.34	703.47	682.22	21.24	33.113			
3,100.00	2,959.59	2,959.22	2,959.19	18.00	10.23	176.33	-100.85	-10.37	738.88	716.90	21.98	33.620			
3,200.00	3,053.09	3,052.29	3,052.26	18.71	10.56	176.50	-100.82	-10.39	774.33	751.62	22.71	34.098			
3,300.00	3,146.59	3,145.68	3,145.64	19.42	10.89	176.65	-100.77	-10.48	809.83	786.38	23.45	34.540			
3,400.00	3,240.08	3,238.64	3,238.60	20.13	11.22	176.78	-100.75	-10.63	845.33	821.14	24.18	34.956			
3,500.00	3,333.58	3,331.88	3,331.85	20.84	11.55	176.90	-100.62	-10.82	880.94	856.02	24.92	35.354			
3,600.00	3,427.08	3,425.43	3,425.39	21.55	11.87	177.02	-100.53	-10.82	916.46	890.81	25.65	35.730			
3,700.00	3,520.57	3,518.75	3,518.71	22.26	12.20	177.13	-100.35	-11.00	952.13	925.75	26.38	36.089			
3,800.00	3,614.07	3,615.83	3,615.79	22.97	12.54	177.22	-100.48	-11.15	987.50	960.36	27.15	36.377			
3,900.00	3,707.57	3,709.60	3,709.56	23.69	12.86	177.31	-100.74	-11.16	1,022.71	994.83	27.88	36.683			
4,000.00	3,801.06	3,801.65	3,801.61	24.40	13.18	177.41	-100.81	-10.98	1,058.01	1,029.41	28.60	36.997			
4,100.00	3,894.56	3,894.28	3,894.25	25.11	13.50	177.49	-100.86	-11.03	1,093.43	1,064.11	29.32	37.288			
4,200.00	3,988.05	3,987.93	3,987.89	25.82	13.82	177.56	-100.87	-11.05	1,128.87	1,098.82	30.05	37.560			
4,300.00	4,081.55	4,081.32	4,081.28	26.53	14.13	177.64	-100.88	-11.02	1,164.30	1,133.52	30.78	37.826			
4,400.00	4,175.05	4,174.26	4,174.22	27.25	14.45	177.71	-100.84	-11.00	1,199.78	1,168.27	31.51	38.080			
4,500.00	4,268.54	4,268.02	4,267.98	27.96	14.77	177.78	-100.80	-10.96	1,235.26	1,203.02	32.24	38.315			
4,600.00	4,362.04	4,361.29	4,361.25	28.67	15.09	177.85	-100.73	-10.89	1,270.74	1,237.77	32.97	38.544			
4,700.00	4,455.54	4,454.40	4,454.36	29.38	15.41	177.91	-100.67	-10.86	1,306.23	1,272.53	33.70	38.762			
4,800.00	4,549.03	4,546.65	4,546.61	30.10	15.73	177.97	-100.53	-10.77	1,341.79	1,307.36	34.42	38.978			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program:													94-MWD OWSG	Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.00	4,642.53	4,646.00	4,645.96	30.81	16.08	178.03	-100.35	-10.70	1,377.38	1,342.18	35.20	39.126			
5,000.00	4,736.03	4,789.83	4,789.76	31.52	16.57	178.08	-103.00	-10.33	1,411.27	1,374.98	36.29	38.887			
5,100.00	4,829.52	4,903.56	4,903.33	32.24	16.97	178.01	-108.94	-11.06	1,442.36	1,405.19	37.16	38.812			
5,200.00	4,923.02	5,014.98	5,014.53	32.95	17.36	177.93	-115.96	-11.84	1,472.55	1,434.54	38.02	38.735			
5,300.00	5,016.52	5,149.53	5,148.65	33.66	17.83	177.87	-126.57	-11.15	1,500.90	1,461.90	39.00	38.485			
5,400.00	5,110.01	5,271.73	5,270.25	34.38	18.25	177.89	-138.00	-7.61	1,527.03	1,487.13	39.90	38.275			
5,500.00	5,203.51	5,545.29	5,540.29	35.09	19.22	178.02	-177.71	8.28	1,548.39	1,507.03	41.36	37.440			
5,600.00	5,297.01	5,729.48	5,718.79	35.80	19.91	177.85	-221.80	18.55	1,560.16	1,517.85	42.32	36.868			
5,700.00	5,390.50	5,841.45	5,826.18	36.52	20.35	177.65	-253.03	23.88	1,568.33	1,525.21	43.12	36.368			
5,800.00	5,484.00	5,961.19	5,940.74	37.23	20.83	177.46	-287.24	30.45	1,575.58	1,531.64	43.94	35.855			
5,900.00	5,577.50	6,074.33	6,048.66	37.94	21.31	177.22	-320.87	35.25	1,582.27	1,537.51	44.76	35.351			
6,000.00	5,670.99	6,208.77	6,175.35	38.66	21.90	176.67	-365.77	34.94	1,587.04	1,541.43	45.61	34.794			
6,100.00	5,764.49	6,337.54	6,294.61	39.37	22.49	175.86	-413.83	28.22	1,589.94	1,543.45	46.49	34.200			
6,200.00	5,857.98	6,455.08	6,401.93	40.08	23.06	174.95	-460.73	18.44	1,591.70	1,544.31	47.39	33.585			
6,300.00	5,951.48	6,620.99	6,550.48	40.80	23.93	173.48	-532.53	1.34	1,591.30	1,542.92	48.38	32.893			
6,400.00	6,044.98	6,751.15	6,663.94	41.51	24.66	172.15	-594.31	-14.57	1,587.77	1,538.36	49.41	32.136			
6,500.00	6,138.47	6,865.50	6,762.49	42.22	25.34	170.93	-650.49	-28.90	1,583.27	1,532.79	50.48	31.365			
6,600.00	6,231.97	6,960.00	6,908.94	42.94	25.99	169.26	-736.39	-43.69	1,576.54	1,526.95	49.59	31.791			
6,700.00	6,325.47	7,209.79	7,056.85	43.65	27.59	167.91	-827.50	-44.57	1,563.79	1,511.17	52.62	29.717			
6,800.00	6,418.96	7,315.00	7,146.23	44.37	28.32	167.15	-882.95	-42.44	1,550.61	1,496.91	53.70	28.878			
6,900.00	6,512.46	7,423.00	7,238.02	45.08	29.09	166.44	-939.70	-38.02	1,536.73	1,481.96	54.77	28.059			
7,000.00	6,605.96	7,517.88	7,318.73	45.79	29.78	165.82	-989.36	-33.40	1,522.85	1,466.98	55.87	27.255			
7,100.00	6,699.45	7,570.15	7,363.33	46.51	30.16	165.47	-1,016.54	-31.50	1,510.45	1,453.39	57.06	26.473			
7,200.00	6,792.95	7,608.82	7,396.68	47.22	30.44	165.15	-1,036.11	-32.04	1,501.98	1,443.77	58.21	25.801			
7,300.00	6,886.45	7,676.05	7,454.58	47.94	30.94	164.47	-1,069.81	-37.38	1,497.35	1,437.92	59.43	25.193			
7,400.00	6,979.94	7,756.83	7,520.48	48.65	31.56	163.31	-1,114.31	-51.24	1,493.52	1,432.67	60.85	24.544			
7,461.12	7,037.09	7,785.33	7,542.66	49.09	31.78	162.80	-1,130.63	-58.58	1,492.78	1,431.14	61.64	24.219			
7,500.00	7,073.44	7,802.68	7,555.86	49.36	31.92	162.47	-1,140.63	-63.74	1,493.09	1,430.96	62.13	24.033			
7,600.00	7,166.94	7,823.00	7,571.01	50.08	32.08	162.06	-1,152.40	-70.43	1,497.14	1,434.07	63.07	23.736			
7,700.00	7,260.43	7,857.67	7,596.37	50.79	32.34	161.32	-1,172.00	-83.63	1,506.09	1,442.00	64.09	23.501			
7,710.39	7,270.15	7,859.94	7,598.01	50.87	32.36	161.27	-1,173.24	-84.58	1,507.34	1,443.18	64.17	23.491			
7,750.00	7,307.31	7,868.67	7,604.32	51.14	32.42	160.30	-1,177.99	-88.31	1,511.83	1,447.39	64.45	23.459			
7,800.00	7,354.38	7,879.96	7,612.42	51.46	32.51	159.79	-1,184.03	-93.36	1,516.29	1,451.55	64.74	23.420			
7,850.00	7,401.31	7,918.00	7,639.23	51.75	32.80	121.62	-1,203.41	-112.11	1,520.23	1,454.79	65.44	23.230			
7,900.00	7,447.74	7,918.00	7,639.23	52.00	32.80	110.18	-1,203.41	-112.11	1,521.24	1,455.84	65.40	23.260			
7,950.00	7,493.32	7,918.00	7,639.23	52.22	32.80	101.09	-1,203.41	-112.11	1,521.11	1,455.85	65.26	23.309			
8,000.00	7,537.69	7,918.00	7,639.23	52.41	32.80	94.14	-1,203.41	-112.11	1,519.85	1,454.82	65.03	23.373			
8,050.00	7,580.52	7,918.00	7,639.23	52.57	32.80	88.89	-1,203.41	-112.11	1,517.46	1,452.76	64.71	23.451			
8,100.00	7,621.49	7,956.45	7,665.54	52.70	33.05	84.70	-1,221.52	-133.50	1,512.26	1,447.11	65.15	23.211			
8,150.00	7,660.28	7,970.51	7,674.96	52.81	33.15	81.80	-1,227.78	-141.85	1,506.18	1,441.15	65.03	23.160			
8,200.00	7,696.59	8,013.00	7,702.68	52.89	33.44	79.66	-1,245.43	-168.77	1,499.50	1,433.96	65.54	22.880			
8,250.00	7,730.16	8,013.00	7,702.68	52.95	33.44	78.39	-1,245.43	-168.77	1,489.68	1,424.65	65.03	22.906			
8,300.00	7,760.72	8,013.00	7,702.68	52.98	33.44	77.63	-1,245.43	-168.77	1,478.86	1,414.35	64.51	22.926			
8,350.00	7,788.05	8,040.76	7,719.93	53.00	33.62	77.40	-1,256.39	-187.56	1,466.65	1,401.99	64.67	22.680			
8,400.00	7,811.93	8,068.50	7,736.19	53.00	33.80	77.66	-1,267.43	-207.13	1,452.67	1,387.81	64.86	22.398			
8,450.00	7,832.18	8,107.00	7,757.09	52.99	34.06	78.42	-1,282.86	-235.53	1,437.07	1,371.70	65.37	21.985			
8,500.00	7,848.65	8,107.00	7,757.09	52.95	34.06	79.34	-1,282.86	-235.53	1,419.91	1,354.98	64.94	21.867			
8,550.00	7,861.21	8,107.00	7,757.09	52.91	34.06	80.53	-1,282.86	-235.53	1,402.18	1,337.61	64.57	21.716			
8,600.00	7,869.78	8,146.43	7,776.55	52.85	34.32	82.53	-1,298.06	-266.27	1,382.35	1,317.04	65.31	21.166			
8,650.00	7,874.27	8,161.27	7,783.37	52.78	34.42	84.57	-1,303.42	-278.30	1,362.38	1,296.89	65.49	20.804			
8,679.79	7,875.00	8,169.99	7,787.25	52.74	34.48	85.92	-1,306.48	-285.49	1,350.17	1,284.54	65.63	20.572			
8,700.00	7,875.00	8,201.00	7,800.25	52.70	34.69	86.50	-1,316.77	-311.69	1,342.58	1,276.19	66.39	20.224			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 94-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
8,800.00	7,875.00	8,201.00	7,800.25	52.56	34.69	86.50	-1,316.77	-311.69	1,303.76	1,237.47	66.29	19.667			
8,900.00	7,875.00	8,235.89	7,813.22	52.44	34.91	87.08	-1,327.14	-342.36	1,270.25	1,202.97	67.28	18.879			
9,000.00	7,875.00	8,267.75	7,823.39	52.34	35.12	87.55	-1,335.35	-371.41	1,241.70	1,173.35	68.35	18.166			
9,100.00	7,875.00	8,296.00	7,831.03	52.27	35.31	87.90	-1,341.60	-397.88	1,218.24	1,148.75	69.48	17.532			
9,200.00	7,875.00	8,333.07	7,839.48	52.22	35.53	88.30	-1,348.08	-433.38	1,200.03	1,129.05	70.97	16.908			
9,300.00	7,875.00	8,391.00	7,849.77	52.20	35.90	88.79	-1,353.92	-490.05	1,188.11	1,115.16	72.95	16.286			
9,400.00	7,875.00	8,391.00	7,849.77	52.24	35.90	88.79	-1,353.92	-490.05	1,180.34	1,106.47	73.88	15.977			
9,500.00	7,875.00	8,449.39	7,855.74	52.35	36.24	89.08	-1,355.54	-548.08	1,177.93	1,101.94	75.99	15.501			
9,500.07	7,875.00	8,449.42	7,855.75	52.35	36.24	89.08	-1,355.54	-548.12	1,177.93	1,101.94	75.99	15.500			
9,600.00	7,875.00	8,502.96	7,856.89	52.62	36.58	89.13	-1,354.31	-601.62	1,180.12	1,102.12	78.00	15.129			
9,700.00	7,875.00	8,579.00	7,857.26	53.16	37.11	89.16	-1,350.60	-677.56	1,185.09	1,104.57	80.52	14.719			
9,800.00	7,875.00	8,699.10	7,858.19	54.13	38.15	89.20	-1,345.24	-797.54	1,189.55	1,105.27	84.28	14.114			
9,900.00	7,875.00	8,769.00	7,858.81	55.55	38.87	89.24	-1,341.60	-867.34	1,194.91	1,107.97	86.95	13.743			
10,000.00	7,875.00	8,842.48	7,859.42	57.28	39.71	89.27	-1,336.06	-940.61	1,202.62	1,112.81	89.81	13.391			
10,100.00	7,875.00	8,916.54	7,860.02	59.21	40.63	89.30	-1,328.69	-1,014.29	1,212.65	1,119.90	92.75	13.075			
10,200.00	7,875.00	9,006.87	7,860.63	61.26	41.87	89.34	-1,318.16	-1,104.01	1,224.38	1,128.09	96.29	12.716			
10,300.00	7,875.00	9,160.88	7,861.38	63.38	44.29	89.38	-1,302.83	-1,257.23	1,234.71	1,132.48	102.24	12.077			
10,400.00	7,875.00	9,376.23	7,863.75	65.57	48.32	89.49	-1,298.73	-1,472.41	1,235.93	1,125.22	110.71	11.163			
10,500.00	7,875.00	9,458.39	7,864.49	67.80	49.98	89.53	-1,299.81	-1,554.56	1,234.72	1,120.19	114.52	10.781			
10,600.00	7,875.00	9,568.16	7,865.59	70.07	52.28	89.58	-1,300.12	-1,664.32	1,234.61	1,115.18	119.43	10.338			
10,700.00	7,875.00	9,741.52	7,867.30	72.37	56.08	89.65	-1,308.08	-1,837.45	1,229.99	1,103.23	126.76	9.703			
10,800.00	7,875.00	9,885.44	7,868.93	74.70	59.35	89.73	-1,321.44	-1,980.74	1,220.76	1,087.75	133.00	9.179			
10,900.00	7,875.00	9,983.74	7,869.95	77.06	61.63	89.77	-1,332.36	-2,078.42	1,209.76	1,072.04	137.71	8.785			
11,000.00	7,875.00	10,081.31	7,871.24	79.44	63.92	89.83	-1,342.80	-2,175.43	1,199.16	1,056.72	142.44	8.419			
11,100.00	7,875.00	10,166.30	7,872.32	81.84	65.93	89.88	-1,351.80	-2,259.93	1,188.75	1,042.00	146.75	8.100			
11,200.00	7,875.00	10,229.00	7,873.07	84.26	67.42	89.92	-1,356.93	-2,322.42	1,180.76	1,030.52	150.23	7.859			
11,300.00	7,875.00	10,291.27	7,873.84	86.69	68.91	89.96	-1,360.06	-2,384.60	1,175.92	1,022.30	153.62	7.655			
11,385.65	7,875.00	10,340.38	7,874.49	88.78	70.08	89.99	-1,360.92	-2,433.69	1,174.55	1,018.31	156.24	7.517			
11,400.00	7,875.00	10,348.11	7,874.58	89.14	70.26	89.99	-1,360.91	-2,441.43	1,174.59	1,017.94	156.65	7.498			
11,500.00	7,875.00	10,417.00	7,875.34	91.60	71.91	90.03	-1,358.87	-2,510.27	1,177.29	1,017.17	160.12	7.352			
11,600.00	7,875.00	10,485.82	7,876.09	94.07	73.55	90.07	-1,355.03	-2,578.98	1,182.63	1,019.10	163.53	7.232			
11,700.00	7,875.00	10,622.78	7,877.74	96.56	76.86	90.15	-1,348.81	-2,715.78	1,187.43	1,017.04	170.39	6.969			
11,800.00	7,875.00	10,745.93	7,879.20	99.05	79.88	90.22	-1,347.63	-2,838.92	1,188.35	1,011.82	176.53	6.732			
11,900.00	7,875.00	10,830.76	7,879.97	101.56	81.97	90.25	-1,346.57	-2,923.74	1,189.72	1,008.87	180.85	6.579			
12,000.00	7,875.00	10,922.99	7,880.78	104.07	84.26	90.29	-1,344.22	-3,015.93	1,192.36	1,006.84	185.53	6.427			
12,100.00	7,875.00	12,100.00	7,882.24	106.60	113.90	90.36	-1,343.14	-3,151.31	1,193.18	974.38	218.80	5.453			
12,200.00	7,875.00	11,196.08	7,883.67	109.13	91.12	90.43	-1,347.43	-3,288.90	1,189.75	990.66	199.10	5.976			
12,300.00	7,875.00	11,272.20	7,884.49	111.66	93.04	90.47	-1,349.26	-3,365.00	1,187.43	984.27	203.17	5.845			
12,400.00	7,875.00	11,398.34	7,886.04	114.21	96.25	90.55	-1,353.28	-3,491.06	1,184.23	974.78	209.45	5.654			
12,500.00	7,875.00	11,513.44	7,887.63	116.76	99.19	90.63	-1,357.61	-3,606.06	1,180.70	965.47	215.22	5.486			
12,600.00	7,875.00	11,628.15	7,889.09	119.32	102.12	90.70	-1,364.59	-3,720.55	1,174.68	953.72	220.96	5.316			
12,700.00	7,875.00	11,704.33	7,890.27	121.88	104.08	90.76	-1,368.79	-3,796.60	1,169.35	944.19	225.16	5.193			
12,800.00	7,875.00	11,772.70	7,891.32	124.45	105.84	90.82	-1,370.86	-3,864.93	1,166.48	937.55	228.94	5.095			
12,848.60	7,875.00	11,804.41	7,891.81	125.70	106.65	90.84	-1,371.14	-3,896.64	1,166.13	935.48	230.65	5.056			
12,900.00	7,875.00	11,833.00	7,892.24	127.02	107.38	90.86	-1,370.99	-3,925.22	1,166.54	934.39	232.15	5.025			
13,000.00	7,875.00	11,897.57	7,893.20	129.60	109.04	90.91	-1,369.05	-3,989.76	1,169.80	934.42	235.38	4.970			
13,100.00	7,875.00	11,967.65	7,894.21	132.18	110.83	90.95	-1,364.55	-4,059.68	1,176.27	937.50	238.77	4.926			
13,200.00	7,875.00	12,089.08	7,895.89	134.77	113.94	91.03	-1,355.54	-4,180.76	1,184.03	938.74	245.29	4.827			
13,300.00	7,875.00	12,219.18	7,897.63	137.36	117.29	91.11	-1,350.42	-4,310.75	1,188.01	935.78	252.23	4.710			
13,400.00	7,875.00	12,300.79	7,898.75	139.96	119.40	91.16	-1,347.23	-4,392.28	1,192.02	935.61	256.42	4.649			
13,500.00	7,875.00	12,398.22	7,900.08	142.55	121.93	91.22	-1,342.68	-4,489.59	1,196.83	935.34	261.50	4.577			
13,600.00	7,875.00	12,485.64	7,901.30	145.15	124.19	91.27	-1,338.09	-4,576.89	1,202.23	936.24	265.99	4.520			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 94-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
13,700.00	7,875.00	12,720.07	7,904.54	147.76	130.30	91.42	-1,335.71	-4,811.10	1,204.50	926.65	277.85	4.335			
13,800.00	7,875.00	12,824.94	7,905.91	150.37	133.04	91.49	-1,342.11	-4,915.78	1,198.52	915.25	283.26	4.231			
13,900.00	7,875.00	12,922.29	7,907.27	152.98	135.58	91.57	-1,347.29	-5,012.97	1,193.34	904.93	288.40	4.138			
14,000.00	7,875.00	13,036.35	7,908.69	155.59	138.57	91.64	-1,354.41	-5,126.80	1,187.24	893.09	294.15	4.036			
14,100.00	7,875.00	13,124.41	7,909.90	158.20	140.88	91.71	-1,360.17	-5,214.67	1,180.88	881.91	298.97	3.950			
14,200.00	7,875.00	13,207.19	7,911.14	160.82	143.05	91.78	-1,364.35	-5,297.33	1,175.99	872.43	303.56	3.874			
14,300.00	7,875.00	13,290.60	7,912.38	163.44	145.24	91.84	-1,367.40	-5,380.68	1,172.50	864.37	308.13	3.805			
14,400.00	7,875.00	13,374.14	7,913.57	166.06	147.44	91.90	-1,369.27	-5,464.18	1,170.42	857.78	312.64	3.744			
14,500.00	7,875.00	13,460.07	7,914.83	168.69	149.70	91.97	-1,370.02	-5,550.10	1,169.70	852.47	317.23	3.687			
14,524.05	7,875.00	13,482.11	7,915.16	169.32	150.28	91.98	-1,370.08	-5,572.14	1,169.68	851.29	318.39	3.674			
14,600.00	7,875.00	13,549.52	7,916.14	171.32	152.05	92.03	-1,370.00	-5,639.54	1,169.90	847.94	321.96	3.634			
14,700.00	7,875.00	13,630.73	7,917.32	173.94	154.19	92.09	-1,368.88	-5,720.74	1,171.44	845.24	326.21	3.591			
14,800.00	7,875.00	13,723.41	7,918.61	176.57	156.63	92.14	-1,366.58	-5,813.38	1,174.09	843.02	331.07	3.546			
14,900.00	7,875.00	13,834.27	7,920.09	179.21	159.55	92.21	-1,363.84	-5,924.19	1,176.73	839.76	336.97	3.492			
15,000.00	7,875.00	13,983.53	7,921.37	181.84	163.49	92.27	-1,363.96	-6,073.43	1,176.87	832.13	344.74	3.414			
15,100.00	7,875.00	14,113.82	7,922.54	184.48	166.93	92.34	-1,368.83	-6,203.63	1,173.25	821.98	351.27	3.340			
15,200.00	7,875.00	14,223.06	7,923.21	187.11	169.81	92.38	-1,374.87	-6,312.70	1,167.83	810.95	356.88	3.272			
15,300.00	7,875.00	14,309.32	7,923.91	189.75	172.09	92.43	-1,379.32	-6,398.84	1,162.83	801.18	361.65	3.215			
15,400.00	7,875.00	14,392.21	7,924.61	192.39	174.29	92.47	-1,382.44	-6,481.67	1,159.22	792.98	366.24	3.165			
15,500.00	7,875.00	14,480.31	7,925.37	195.03	176.62	92.51	-1,384.69	-6,569.73	1,156.82	785.82	371.00	3.118			
15,600.00	7,875.00	14,562.65	7,926.12	197.67	178.80	92.55	-1,385.73	-6,652.06	1,155.71	780.27	375.44	3.078			
15,700.00	7,875.00	14,666.26	7,926.96	200.32	181.54	92.59	-1,386.31	-6,755.67	1,155.31	774.39	380.92	3.033			
15,800.00	7,875.00	14,785.28	7,927.51	202.96	184.70	92.63	-1,388.72	-6,874.66	1,153.34	766.23	387.11	2.979			
15,900.00	7,875.00	14,865.14	7,927.76	205.61	186.82	92.64	-1,390.08	-6,954.51	1,151.80	760.34	391.46	2.942			
15,918.81	7,875.00	14,877.45	7,927.80	206.11	187.14	92.64	-1,390.13	-6,966.82	1,151.75	759.62	392.12	2.937			
16,000.00	7,875.00	14,930.59	7,927.97	208.26	188.55	92.65	-1,389.55	-7,019.95	1,152.73	757.88	394.86	2.919			
16,100.00	7,875.00	15,033.25	7,928.27	210.91	191.27	92.66	-1,386.87	-7,122.57	1,155.48	755.16	400.33	2.886			
16,200.00	7,875.00	15,136.05	7,928.54	213.56	194.00	92.67	-1,384.90	-7,225.35	1,157.52	751.71	405.80	2.852			
16,300.00	7,875.00	15,258.14	7,928.95	216.21	197.25	92.68	-1,383.98	-7,347.44	1,158.37	746.03	412.34	2.809			
16,400.00	7,875.00	15,374.26	7,929.38	218.86	200.33	92.71	-1,384.66	-7,463.55	1,157.95	739.50	418.46	2.767			
16,500.00	7,875.00	15,499.46	7,929.80	221.51	203.66	92.73	-1,387.95	-7,588.71	1,155.44	730.58	424.86	2.720			
16,600.00	7,875.00	15,602.96	7,930.16	224.16	206.41	92.76	-1,392.00	-7,692.13	1,151.66	721.35	430.31	2.676			
16,700.00	7,875.00	15,677.91	7,930.28	226.82	208.40	92.77	-1,394.23	-7,767.04	1,148.84	714.29	434.55	2.644			
16,768.22	7,875.00	15,727.09	7,930.36	228.63	209.71	92.78	-1,394.71	-7,816.23	1,148.26	711.03	437.23	2.626			
16,800.00	7,875.00	15,749.67	7,930.41	229.47	210.31	92.78	-1,394.65	-7,838.80	1,148.39	709.96	438.42	2.619			
16,900.00	7,875.00	15,840.84	7,930.68	232.13	212.73	92.79	-1,393.07	-7,929.96	1,150.18	706.94	443.24	2.595			
17,000.00	7,875.00	15,940.97	7,931.08	234.79	215.40	92.81	-1,392.26	-8,030.08	1,151.12	702.55	448.57	2.566			
17,100.00	7,875.00	16,021.85	7,931.81	237.44	217.55	92.84	-1,390.35	-8,110.93	1,153.62	700.91	452.71	2.548			
17,200.00	7,875.00	16,146.08	7,932.97	240.10	220.86	92.89	-1,386.76	-8,235.11	1,156.88	697.38	459.50	2.518			
17,300.00	7,875.00	16,266.97	7,934.12	242.76	224.08	92.95	-1,387.25	-8,355.98	1,156.54	690.61	465.93	2.482			
17,400.00	7,875.00	16,407.46	7,935.47	245.42	227.82	93.02	-1,391.15	-8,496.41	1,153.87	680.90	472.97	2.440			
17,500.00	7,875.00	16,518.50	7,936.55	248.08	230.77	93.09	-1,396.72	-8,607.30	1,149.00	670.36	478.64	2.401			
17,600.00	7,875.00	16,596.79	7,937.34	250.74	232.86	93.14	-1,400.55	-8,685.49	1,144.40	661.22	483.17	2.369			
17,700.00	7,875.00	16,661.72	7,937.99	253.41	234.59	93.18	-1,401.78	-8,750.40	1,142.66	655.79	486.87	2.347			
17,707.01	7,875.00	16,666.33	7,938.04	253.59	234.71	93.18	-1,401.80	-8,755.01	1,142.65	655.53	487.12	2.346			
17,800.00	7,875.00	16,727.50	7,938.66	256.07	236.34	93.21	-1,401.05	-8,816.17	1,143.95	653.75	490.19	2.334			
17,900.00	7,875.00	16,813.17	7,939.57	258.73	238.62	93.24	-1,398.06	-8,901.78	1,147.57	653.02	494.55	2.320			
18,000.00	7,875.00	16,900.13	7,940.55	261.39	240.94	93.28	-1,394.28	-8,988.65	1,152.10	653.16	498.94	2.309			
18,100.00	7,875.00	17,003.37	7,941.60	264.06	243.69	93.32	-1,388.98	-9,091.75	1,157.40	652.90	504.51	2.294			
18,200.00	7,875.00	17,115.21	7,942.84	266.72	246.68	93.36	-1,384.33	-9,203.49	1,161.73	651.05	510.67	2.275			
18,300.00	7,875.00	17,209.95	7,943.85	269.39	249.20	93.40	-1,380.69	-9,298.16	1,165.74	650.11	515.63	2.261			
18,400.00	7,875.00	17,298.93	7,944.83	272.05	251.58	93.44	-1,376.63	-9,387.04	1,170.48	650.32	520.16	2.250			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL SURVEY												<b>Offset Site Error:</b> 0.00 usft	
Survey Program: 94-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	
18,500.00	7,875.00	17,390.68	7,945.86	274.72	254.02	93.47	-1,371.68	-9,478.65	1,176.05	651.18	524.86	2.241	
18,575.92	7,875.00	17,483.46	7,946.84	276.74	256.50	93.51	-1,366.89	-9,571.30	1,180.12	649.95	530.17	2.226 SF	

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 2310-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	2,218.00	2,217.98	0.00	0.00	112.70	-397.87	950.94	2,448.81						
100.00	100.00	2,218.00	2,217.98	0.13	0.00	112.70	-397.87	950.94	2,358.48	2,356.41	2.07	1,139.917			
200.00	200.00	2,218.00	2,217.98	0.49	0.00	112.70	-397.87	950.94	2,268.95	2,266.89	2.07	1,097.247			
250.00	250.00	2,218.00	2,217.98	0.67	0.00	112.70	-397.87	950.94	2,224.53	2,222.45	2.07	1,072.664			
300.00	300.00	2,218.00	2,217.98	0.84	0.00	-48.74	-397.87	950.94	2,180.21	2,178.12	2.09	1,043.195			
400.00	399.93	2,218.00	2,217.98	1.19	0.00	-51.69	-397.87	950.94	2,091.51	2,089.37	2.14	976.917			
500.00	499.68	2,218.00	2,217.98	1.54	0.00	-54.76	-397.87	950.94	2,002.84	2,000.62	2.22	903.349			
600.00	599.13	2,218.00	2,217.98	1.92	0.00	-57.93	-397.87	950.94	1,914.30	1,911.99	2.31	827.307			
700.00	698.15	2,218.00	2,217.98	2.32	0.00	-61.17	-397.87	950.94	1,826.05	1,823.61	2.43	750.159			
800.00	796.63	2,218.00	2,217.98	2.74	0.00	-64.43	-397.87	950.94	1,738.22	1,735.64	2.58	673.108			
900.00	894.44	2,218.00	2,217.98	3.21	0.00	-67.69	-397.87	950.94	1,651.02	1,648.25	2.76	597.258			
1,000.00	991.46	2,218.00	2,217.98	3.71	0.00	-70.90	-397.87	950.94	1,564.65	1,561.66	2.99	523.687			
1,100.00	1,087.58	2,218.00	2,217.98	4.25	0.00	-74.01	-397.87	950.94	1,479.38	1,476.12	3.26	453.473			
1,200.00	1,182.68	2,218.00	2,217.98	4.83	0.00	-76.99	-397.87	950.94	1,395.52	1,391.92	3.60	387.675			
1,288.87	1,266.25	2,218.00	2,217.98	5.39	0.00	-79.50	-397.87	950.94	1,322.48	1,318.52	3.96	333.676			
1,300.00	1,276.66	2,218.00	2,217.98	5.46	0.00	-79.50	-397.87	950.94	1,313.46	1,309.44	4.01	327.146			
1,400.00	1,370.15	2,218.00	2,217.98	6.12	0.00	-79.50	-397.87	950.94	1,233.88	1,229.37	4.51	273.662			
1,500.00	1,463.65	2,218.00	2,217.98	6.80	0.00	-79.50	-397.87	950.94	1,157.47	1,152.37	5.09	227.346			
1,600.00	1,557.15	2,218.00	2,217.98	7.48	0.00	-79.50	-397.87	950.94	1,084.90	1,079.13	5.77	188.122			
1,700.00	1,650.64	2,218.00	2,217.98	8.16	0.00	-79.50	-397.87	950.94	1,017.00	1,010.46	6.54	155.542			
1,800.00	1,744.14	2,218.00	2,217.98	8.85	0.00	-79.50	-397.87	950.94	954.76	947.35	7.40	128.975			
1,900.00	1,837.64	2,218.00	2,217.98	9.55	0.00	-79.50	-397.87	950.94	899.36	891.01	8.35	107.729			
2,000.00	1,931.13	2,218.00	2,217.98	10.24	0.00	-79.50	-397.87	950.94	852.13	842.77	9.35	91.126			
2,100.00	2,024.63	2,218.00	2,217.98	10.94	0.00	-79.50	-397.87	950.94	814.49	804.12	10.37	78.542			
2,200.00	2,118.12	2,218.00	2,217.98	11.64	0.00	-79.50	-397.87	950.94	787.83	776.48	11.35	69.417			
2,300.00	2,211.62	2,218.00	2,217.98	12.35	0.00	-79.50	-397.87	950.94	773.27	761.05	12.22	63.264			
2,400.00	2,305.12	2,300.78	2,300.76	13.05	0.15	-81.63	-398.34	951.13	767.04	753.92	13.12	58.448			
2,500.00	2,398.61	2,388.02	2,387.99	13.75	0.44	-83.94	-398.04	951.49	762.81	748.65	14.16	53.889			
2,600.00	2,492.11	2,475.12	2,475.06	14.46	0.75	-86.42	-395.57	952.07	761.10	745.91	15.19	50.093			
2,616.57	2,507.60	2,489.49	2,489.41	14.58	0.80	-86.84	-394.97	952.17	761.07	745.70	15.36	49.536 CC			
2,700.00	2,585.61	2,564.00	2,563.84	15.17	1.06	-89.05	-391.41	952.73	761.90	745.68	16.22	46.959 ES			
2,800.00	2,679.10	2,661.40	2,661.10	15.87	1.41	-91.97	-386.30	953.20	764.71	747.44	17.27	44.281			
2,900.00	2,772.60	2,757.82	2,757.36	16.58	1.76	-94.88	-380.89	952.54	768.76	750.48	18.29	42.041			
3,000.00	2,866.10	2,851.12	2,850.50	17.29	2.10	-97.69	-375.50	951.40	774.57	755.31	19.26	40.212			
3,100.00	2,959.59	2,942.14	2,941.36	18.00	2.44	-100.41	-370.20	950.14	782.36	762.17	20.20	38.739			
3,200.00	3,053.09	3,033.02	3,032.08	18.71	2.77	-103.05	-364.99	949.02	792.27	771.17	21.10	37.555			
3,300.00	3,146.59	3,123.22	3,122.13	19.42	3.10	-105.62	-359.76	947.93	804.18	782.22	21.96	36.621			
3,400.00	3,240.08	3,211.06	3,209.82	20.13	3.43	-108.04	-354.80	947.26	818.20	795.42	22.78	35.920			
3,500.00	3,333.58	3,300.82	3,299.48	20.84	3.75	-110.33	-350.63	947.88	834.32	810.74	23.58	35.382			
3,600.00	3,427.08	3,394.39	3,392.96	21.55	4.09	-112.61	-346.69	948.90	851.94	827.56	24.38	34.947			
3,700.00	3,520.57	3,489.52	3,488.01	22.26	4.44	-114.81	-343.06	949.93	870.66	845.50	25.16	34.601			
3,800.00	3,614.07	3,583.80	3,582.22	22.97	4.78	-116.95	-339.27	950.31	890.39	864.47	25.92	34.353			
3,900.00	3,707.57	3,678.14	3,676.49	23.69	5.12	-119.01	-335.57	950.52	911.18	884.52	26.66	34.181			
4,000.00	3,801.06	3,772.40	3,770.69	24.40	5.46	-120.96	-332.33	950.86	932.84	905.46	27.38	34.069			
4,100.00	3,894.56	3,863.86	3,862.10	25.11	5.79	-122.77	-329.27	951.22	955.50	927.43	28.07	34.034 SF			
4,200.00	3,988.05	3,954.05	3,952.23	25.82	6.12	-124.47	-326.13	951.70	979.32	950.57	28.75	34.065			
4,300.00	4,081.55	4,046.08	4,044.19	26.53	6.45	-126.18	-322.39	951.68	1,004.22	974.80	29.42	34.137			
4,400.00	4,175.05	4,142.41	4,140.44	27.25	6.80	-127.88	-318.68	951.53	1,029.78	999.67	30.10	34.208			
4,500.00	4,268.54	4,234.16	4,232.14	27.96	7.13	-129.41	-315.60	951.48	1,055.79	1,025.04	30.76	34.327			
4,600.00	4,362.04	4,320.10	4,318.02	28.67	7.44	-130.80	-312.14	951.47	1,083.10	1,051.74	31.37	34.532			
4,700.00	4,455.54	4,417.10	4,414.94	29.38	7.79	-132.28	-308.32	951.67	1,111.14	1,079.09	32.04	34.678			
4,800.00	4,549.03	4,512.27	4,510.06	30.10	8.14	-133.64	-305.34	952.05	1,139.19	1,106.48	32.71	34.829			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program:													2310-MWD OWSG	Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.00	4,642.53	4,593.75	4,591.48	30.81	8.43	-134.76	-302.16	952.28	1,168.42	1,135.14	33.28	35.112			
5,000.00	4,736.03	4,685.74	4,683.38	31.52	8.77	-136.00	-298.14	952.42	1,198.56	1,164.65	33.91	35.343			
5,100.00	4,829.52	4,778.41	4,775.96	32.24	9.10	-137.19	-294.01	952.33	1,229.21	1,194.66	34.55	35.578			
5,200.00	4,923.02	4,877.05	4,874.51	32.95	9.46	-138.40	-289.94	952.21	1,260.06	1,224.83	35.23	35.768			
5,300.00	5,016.52	4,977.49	4,974.89	33.66	9.82	-139.55	-286.46	952.28	1,290.83	1,254.91	35.92	35.933			
5,400.00	5,110.01	5,074.92	5,072.28	34.38	10.17	-140.60	-283.87	952.53	1,321.34	1,284.74	36.60	36.100			
5,500.00	5,203.51	5,159.86	5,157.19	35.09	10.48	-141.49	-281.19	952.60	1,352.60	1,315.41	37.19	36.367			
5,600.00	5,297.01	5,266.27	5,263.56	35.80	10.86	-142.55	-278.39	952.37	1,383.66	1,345.73	37.93	36.478			
5,700.00	5,390.50	5,350.78	5,348.04	36.52	11.17	-143.37	-276.13	951.95	1,415.04	1,376.52	38.52	36.737			
5,800.00	5,484.00	5,428.00	5,425.21	37.23	11.44	-144.11	-273.49	951.37	1,447.39	1,408.34	39.05	37.064			
5,900.00	5,577.50	5,491.88	5,489.01	37.94	11.68	-144.70	-270.37	951.03	1,481.41	1,441.93	39.48	37.522			
6,000.00	5,670.99	5,557.35	5,554.32	38.66	11.92	-145.29	-265.86	951.10	1,517.56	1,477.64	39.92	38.019			
6,100.00	5,764.49	5,630.07	5,626.80	39.37	12.19	-145.90	-259.93	951.56	1,555.23	1,514.82	40.41	38.490			
6,200.00	5,857.98	5,713.36	5,709.76	40.08	12.51	-146.58	-252.52	952.23	1,593.83	1,552.85	40.99	38.888			
6,300.00	5,951.48	5,847.29	5,843.27	40.80	13.01	-147.65	-241.99	952.03	1,631.57	1,589.60	41.97	38.875			
6,400.00	6,044.98	5,994.30	5,990.05	41.51	13.54	-148.80	-234.32	949.93	1,667.06	1,624.04	43.02	38.753			
6,500.00	6,138.47	6,141.25	6,136.97	42.22	14.05	-149.83	-232.47	948.02	1,698.86	1,654.83	44.03	38.587			
6,600.00	6,231.97	6,239.27	6,234.98	42.94	14.38	-150.47	-232.60	947.07	1,729.86	1,685.16	44.71	38.694			
6,700.00	6,325.47	6,329.21	6,324.92	43.65	14.68	-151.03	-232.82	946.42	1,760.97	1,715.63	45.34	38.841			
6,800.00	6,418.96	6,413.61	6,409.33	44.37	14.97	-151.52	-232.76	946.53	1,792.62	1,746.68	45.95	39.016			
6,900.00	6,512.46	6,498.66	6,494.37	45.08	15.26	-151.98	-232.29	947.10	1,824.91	1,778.35	46.57	39.190			
7,000.00	6,605.96	6,603.01	6,598.71	45.79	15.62	-152.50	-231.61	948.42	1,857.52	1,810.20	47.32	39.254			
7,100.00	6,699.45	6,703.88	6,699.57	46.51	15.96	-153.01	-232.06	948.97	1,889.09	1,841.05	48.04	39.324			
7,200.00	6,792.95	6,777.21	6,772.90	47.22	16.21	-153.37	-231.88	949.46	1,921.47	1,872.89	48.58	39.553			
7,300.00	6,886.45	6,848.91	6,844.59	47.94	16.46	-153.71	-230.87	950.22	1,955.04	1,905.93	49.11	39.806			
7,400.00	6,979.94	6,972.10	6,967.77	48.65	16.89	-154.27	-229.62	951.11	1,988.30	1,938.29	50.01	39.754			
7,500.00	7,073.44	7,071.65	7,067.31	49.36	17.24	-154.71	-229.40	951.79	2,020.96	1,970.21	50.74	39.827			
7,600.00	7,166.94	7,167.83	7,163.50	50.08	17.56	-155.12	-229.40	952.66	2,053.51	2,002.06	51.45	39.915			
7,700.00	7,260.43	7,343.36	7,336.91	50.79	18.15	-155.28	-232.99	972.92	2,085.23	2,032.42	52.81	39.488			
7,710.39	7,270.15	7,710.39	7,338.96	50.87	19.75	-155.27	-233.11	973.55	2,088.25	2,034.20	54.05	38.639			
7,750.00	7,307.31	7,364.71	7,357.30	51.14	18.22	-166.83	-234.06	979.19	2,100.09	2,047.05	53.04	39.594			
7,800.00	7,354.38	7,377.00	7,368.99	51.46	18.26	177.65	-234.55	982.95	2,115.98	2,062.79	53.19	39.784			
7,850.00	7,401.31	7,398.21	7,389.10	51.75	18.33	162.82	-235.12	989.67	2,132.77	2,079.37	53.41	39.935			
7,900.00	7,447.74	7,409.00	7,399.29	52.00	18.36	149.71	-235.27	993.20	2,150.45	2,096.93	53.52	40.178			
7,950.00	7,493.32	7,440.00	7,428.34	52.22	18.46	139.14	-235.42	1,004.01	2,168.77	2,114.94	53.84	40.282			
8,000.00	7,537.69	7,467.59	7,453.88	52.41	18.56	130.58	-235.46	1,014.43	2,187.57	2,133.43	54.14	40.409			
8,050.00	7,580.52	7,508.51	7,491.32	52.57	18.70	123.96	-235.76	1,030.95	2,206.55	2,151.96	54.59	40.420			
8,100.00	7,621.49	7,518.37	7,500.24	52.70	18.73	117.89	-235.83	1,035.15	2,225.89	2,171.16	54.73	40.671			
8,150.00	7,660.28	7,535.00	7,515.18	52.81	18.79	112.88	-235.88	1,042.46	2,245.63	2,190.68	54.95	40.863			
8,200.00	7,696.59	7,535.00	7,515.18	52.89	18.79	108.13	-235.88	1,042.46	2,265.64	2,210.63	55.01	41.187			
8,250.00	7,730.16	7,535.00	7,515.18	52.95	18.79	103.90	-235.88	1,042.46	2,285.89	2,230.81	55.08	41.501			
8,300.00	7,760.72	7,535.00	7,515.18	52.98	18.79	100.09	-235.88	1,042.46	2,306.21	2,251.04	55.18	41.798			
8,350.00	7,788.05	7,546.08	7,525.04	53.00	18.83	96.94	-235.84	1,047.51	2,326.37	2,270.94	55.44	41.964			
8,400.00	7,811.93	7,546.41	7,525.33	53.00	18.84	93.82	-235.84	1,047.67	2,346.39	2,290.79	55.60	42.200			
8,450.00	7,832.18	7,545.55	7,524.57	52.99	18.83	90.96	-235.84	1,047.27	2,366.05	2,310.26	55.79	42.410			
8,500.00	7,848.65	7,535.00	7,515.18	52.95	18.79	88.13	-235.88	1,042.46	2,385.27	2,329.37	55.90	42.671			
8,550.00	7,861.21	7,535.00	7,515.18	52.91	18.79	85.85	-235.88	1,042.46	2,403.77	2,347.59	56.18	42.788			
8,600.00	7,869.78	7,535.00	7,515.18	52.85	18.79	83.84	-235.88	1,042.46	2,421.50	2,365.00	56.50	42.860			
8,650.00	7,874.27	7,535.00	7,515.18	52.78	18.79	82.09	-235.88	1,042.46	2,438.35	2,381.50	56.85	42.889			
8,679.79	7,875.00	7,525.78	7,506.91	52.74	18.76	80.97	-235.86	1,038.37	2,447.88	2,390.90	56.97	42.967			
8,700.00	7,875.00	7,522.55	7,504.00	52.70	18.75	80.90	-235.85	1,036.96	2,454.28	2,397.19	57.09	42.988			
8,800.00	7,875.00	7,503.00	7,486.31	52.56	18.68	80.47	-235.70	1,028.66	2,488.00	2,430.30	57.70	43.117			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 2310-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,875.00	7,480.77	7,465.99	52.44	18.60	79.98	-235.52	1,019.62	2,524.89	2,466.54	58.35	43.271		
9,000.00	7,875.00	7,455.70	7,442.91	52.34	18.52	79.42	-235.43	1,009.86	2,564.73	2,505.71	59.02	43.458		
9,100.00	7,875.00	7,440.00	7,428.34	52.27	18.46	79.07	-235.42	1,004.01	2,607.47	2,547.66	59.82	43.590		
9,200.00	7,875.00	7,426.26	7,415.51	52.22	18.42	78.76	-235.39	999.08	2,653.10	2,592.44	60.66	43.738		
9,300.00	7,875.00	7,409.00	7,399.29	52.20	18.36	78.37	-235.27	993.20	2,701.57	2,640.09	61.47	43.947		
9,400.00	7,875.00	7,409.00	7,399.29	52.24	18.36	78.37	-235.27	993.20	2,752.63	2,690.18	62.45	44.080		
9,500.00	7,875.00	7,409.00	7,399.29	52.35	18.36	78.37	-235.27	993.20	2,806.33	2,742.93	63.40	44.264		
9,600.00	7,875.00	7,390.52	7,381.81	52.62	18.30	77.96	-234.95	987.20	2,862.27	2,798.10	64.17	44.603		
9,700.00	7,875.00	7,377.00	7,368.99	53.16	18.26	77.66	-234.55	982.95	2,920.58	2,855.61	64.97	44.955		
9,800.00	7,875.00	7,377.00	7,368.99	54.13	18.26	77.66	-234.55	982.95	2,980.98	2,915.14	65.85	45.273		
9,900.00	7,875.00	7,377.00	7,368.99	55.55	18.26	77.66	-234.55	982.95	3,043.47	2,976.78	66.69	45.637		
10,000.00	7,875.00	7,359.68	7,352.50	57.28	18.21	77.27	-233.84	977.69	3,107.72	3,040.35	67.37	46.127		
10,100.00	7,875.00	7,346.00	7,339.44	59.21	18.16	76.96	-233.14	973.68	3,173.85	3,105.79	68.06	46.635		
10,200.00	7,875.00	7,346.00	7,339.44	61.26	18.16	76.96	-233.14	973.68	3,241.59	3,172.79	68.80	47.115		
10,300.00	7,875.00	7,346.00	7,339.44	63.38	18.16	76.96	-233.14	973.68	3,310.97	3,241.46	69.51	47.632		
10,400.00	7,875.00	7,329.29	7,323.41	65.57	18.11	76.59	-232.25	969.05	3,381.73	3,311.65	70.09	48.251		
10,500.00	7,875.00	7,314.00	7,308.64	67.80	18.05	76.24	-231.53	965.14	3,453.96	3,383.32	70.64	48.894		
10,600.00	7,875.00	7,314.00	7,308.64	70.07	18.05	76.24	-231.53	965.14	3,527.43	3,456.17	71.26	49.502		
10,700.00	7,875.00	7,314.00	7,308.64	72.37	18.05	76.24	-231.53	965.14	3,602.17	3,530.33	71.84	50.140		
10,800.00	7,875.00	7,314.00	7,308.64	74.70	18.05	76.24	-231.53	965.14	3,678.11	3,605.72	72.40	50.805		
10,900.00	7,875.00	7,314.00	7,308.64	77.06	18.05	76.24	-231.53	965.14	3,755.19	3,682.26	72.92	51.495		
11,000.00	7,875.00	7,314.00	7,308.64	79.44	18.05	76.24	-231.53	965.14	3,833.32	3,759.89	73.42	52.210		
11,100.00	7,875.00	7,314.00	7,308.64	81.84	18.05	76.24	-231.53	965.14	3,912.44	3,838.55	73.89	52.947		
11,200.00	7,875.00	7,314.00	7,308.64	84.26	18.05	76.24	-231.53	965.14	3,992.51	3,918.16	74.34	53.704		
11,300.00	7,875.00	7,314.00	7,308.64	86.69	18.05	76.24	-231.53	965.14	4,073.45	3,998.68	74.77	54.482		
11,400.00	7,875.00	7,314.00	7,308.64	89.14	18.05	76.24	-231.53	965.14	4,155.22	4,080.05	75.17	55.277		
11,500.00	7,875.00	7,314.00	7,308.64	91.60	18.05	76.24	-231.53	965.14	4,237.78	4,162.23	75.55	56.089		
11,600.00	7,875.00	7,314.00	7,308.64	94.07	18.05	76.24	-231.53	965.14	4,321.07	4,245.15	75.92	56.917		
11,700.00	7,875.00	7,314.00	7,308.64	96.56	18.05	76.24	-231.53	965.14	4,405.06	4,328.80	76.26	57.760		
11,800.00	7,875.00	7,314.00	7,308.64	99.05	18.05	76.24	-231.53	965.14	4,489.71	4,413.11	76.59	58.617		
11,900.00	7,875.00	7,314.00	7,308.64	101.56	18.05	76.24	-231.53	965.14	4,574.97	4,498.06	76.91	59.487		
12,000.00	7,875.00	7,314.00	7,308.64	104.07	18.05	76.24	-231.53	965.14	4,660.82	4,583.62	77.21	60.369		
12,100.00	7,875.00	7,314.00	7,308.64	106.60	18.05	76.24	-231.53	965.14	4,747.22	4,669.74	77.49	61.263		
12,200.00	7,875.00	7,314.00	7,308.64	109.13	18.05	76.24	-231.53	965.14	4,834.15	4,756.39	77.76	62.167		
12,300.00	7,875.00	7,314.00	7,308.64	111.66	18.05	76.24	-231.53	965.14	4,921.58	4,843.56	78.02	63.081		
12,400.00	7,875.00	7,314.00	7,308.64	114.21	18.05	76.24	-231.53	965.14	5,009.47	4,931.21	78.27	64.005		
12,500.00	7,875.00	7,314.00	7,308.64	116.76	18.05	76.24	-231.53	965.14	5,097.81	5,019.31	78.50	64.938		
12,600.00	7,875.00	7,314.00	7,308.64	119.32	18.05	76.24	-231.53	965.14	5,186.58	5,107.85	78.73	65.879		
12,700.00	7,875.00	7,272.00	7,267.48	121.88	17.91	75.29	-230.07	957.04	5,273.71	5,194.90	78.82	66.912		
12,800.00	7,875.00	7,270.88	7,266.37	124.45	17.91	75.26	-230.05	956.89	5,363.14	5,284.12	79.02	67.869		
12,900.00	7,875.00	7,269.80	7,265.30	127.02	17.91	75.24	-230.02	956.74	5,452.94	5,373.72	79.22	68.832		
13,000.00	7,875.00	7,268.77	7,264.28	129.60	17.90	75.22	-230.00	956.60	5,543.08	5,463.67	79.41	69.802		
13,100.00	7,875.00	7,267.78	7,263.30	132.18	17.90	75.19	-229.97	956.48	5,633.55	5,553.96	79.59	70.778		
13,200.00	7,875.00	7,266.83	7,262.35	134.77	17.90	75.17	-229.95	956.35	5,724.34	5,644.57	79.77	71.759		
13,300.00	7,875.00	7,265.91	7,261.44	137.36	17.89	75.15	-229.93	956.24	5,815.43	5,735.49	79.94	72.747		
13,400.00	7,875.00	7,265.02	7,260.56	139.96	17.89	75.13	-229.91	956.13	5,906.80	5,826.70	80.10	73.739		
13,500.00	7,875.00	7,223.00	7,218.66	142.55	17.75	74.16	-229.44	953.31	6,000.46	5,920.34	80.12	74.894		
13,600.00	7,875.00	7,223.00	7,218.66	145.15	17.75	74.16	-229.44	953.31	6,092.29	6,012.01	80.28	75.891		
13,700.00	7,875.00	7,223.00	7,218.66	147.76	17.75	74.16	-229.44	953.31	6,184.38	6,103.95	80.43	76.893		
13,800.00	7,875.00	7,223.00	7,218.66	150.37	17.75	74.16	-229.44	953.31	6,276.71	6,196.13	80.57	77.899		
13,900.00	7,875.00	7,223.00	7,218.66	152.98	17.75	74.16	-229.44	953.31	6,369.27	6,288.55	80.72	78.910		
14,000.00	7,875.00	7,223.00	7,218.66	155.59	17.75	74.16	-229.44	953.31	6,462.05	6,381.20	80.85	79.923		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 2310-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		
14,100.00	7,875.00	7,223.00	7,218.66	158.20	17.75	74.16	-229.44	953.31	6,555.05	6,474.06	80.99	80.941		
14,200.00	7,875.00	7,223.00	7,218.66	160.82	17.75	74.16	-229.44	953.31	6,648.24	6,567.13	81.11	81.961		
14,300.00	7,875.00	7,223.00	7,218.66	163.44	17.75	74.16	-229.44	953.31	6,741.64	6,660.40	81.24	82.985		
14,400.00	7,875.00	7,223.00	7,218.66	166.06	17.75	74.16	-229.44	953.31	6,835.22	6,753.86	81.36	84.012		
14,500.00	7,875.00	7,223.00	7,218.66	168.69	17.75	74.16	-229.44	953.31	6,928.98	6,847.50	81.48	85.041		
14,600.00	7,875.00	7,223.00	7,218.66	171.32	17.75	74.16	-229.44	953.31	7,022.91	6,941.32	81.59	86.073		
14,700.00	7,875.00	7,223.00	7,218.66	173.94	17.75	74.16	-229.44	953.31	7,117.01	7,035.30	81.70	87.107		
14,800.00	7,875.00	7,223.00	7,218.66	176.57	17.75	74.16	-229.44	953.31	7,211.26	7,129.45	81.81	88.144		
14,900.00	7,875.00	7,223.00	7,218.66	179.21	17.75	74.16	-229.44	953.31	7,305.67	7,223.75	81.92	89.182		
15,000.00	7,875.00	7,223.00	7,218.66	181.84	17.75	74.16	-229.44	953.31	7,400.23	7,318.21	82.02	90.223		
15,100.00	7,875.00	7,223.00	7,218.66	184.48	17.75	74.16	-229.44	953.31	7,494.93	7,412.80	82.12	91.265		
15,200.00	7,875.00	7,223.00	7,218.66	187.11	17.75	74.16	-229.44	953.31	7,589.76	7,507.54	82.22	92.309		
15,300.00	7,875.00	7,223.00	7,218.66	189.75	17.75	74.16	-229.44	953.31	7,684.72	7,602.41	82.32	93.355		
15,400.00	7,875.00	7,223.00	7,218.66	192.39	17.75	74.16	-229.44	953.31	7,779.81	7,697.40	82.41	94.402		
15,500.00	7,875.00	7,223.00	7,218.66	195.03	17.75	74.16	-229.44	953.31	7,875.03	7,792.52	82.50	95.450		
15,600.00	7,875.00	7,223.00	7,218.66	197.67	17.75	74.16	-229.44	953.31	7,970.35	7,887.76	82.59	96.500		
15,700.00	7,875.00	7,223.00	7,218.66	200.32	17.75	74.16	-229.44	953.31	8,065.80	7,983.11	82.68	97.551		
15,800.00	7,875.00	7,223.00	7,218.66	202.96	17.75	74.16	-229.44	953.31	8,161.35	8,078.58	82.77	98.603		
15,900.00	7,875.00	7,223.00	7,218.66	205.61	17.75	74.16	-229.44	953.31	8,257.01	8,174.15	82.86	99.655		
16,000.00	7,875.00	7,223.00	7,218.66	208.26	17.75	74.16	-229.44	953.31	8,352.76	8,269.82	82.94	100.709		
16,100.00	7,875.00	7,223.00	7,218.66	210.91	17.75	74.16	-229.44	953.31	8,448.62	8,365.60	83.02	101.764		
16,200.00	7,875.00	7,223.00	7,218.66	213.56	17.75	74.16	-229.44	953.31	8,544.57	8,461.47	83.10	102.819		
16,300.00	7,875.00	7,223.00	7,218.66	216.21	17.75	74.16	-229.44	953.31	8,640.62	8,557.43	83.18	103.875		
16,400.00	7,875.00	7,223.00	7,218.66	218.86	17.75	74.16	-229.44	953.31	8,736.75	8,653.49	83.26	104.931		
16,500.00	7,875.00	7,223.00	7,218.66	221.51	17.75	74.16	-229.44	953.31	8,832.97	8,749.63	83.34	105.988		
16,600.00	7,875.00	7,223.00	7,218.66	224.16	17.75	74.16	-229.44	953.31	8,929.27	8,845.85	83.42	107.045		
16,700.00	7,875.00	7,223.00	7,218.66	226.82	17.75	74.16	-229.44	953.31	9,025.65	8,942.16	83.49	108.103		
16,800.00	7,875.00	7,223.00	7,218.66	229.47	17.75	74.16	-229.44	953.31	9,122.11	9,038.54	83.57	109.160		
16,900.00	7,875.00	7,223.00	7,218.66	232.13	17.75	74.16	-229.44	953.31	9,218.65	9,135.01	83.64	110.218		
17,000.00	7,875.00	7,223.00	7,218.66	234.79	17.75	74.16	-229.44	953.31	9,315.25	9,231.54	83.71	111.277		
17,100.00	7,875.00	7,223.00	7,218.66	237.44	17.75	74.16	-229.44	953.31	9,411.93	9,328.15	83.78	112.335		
17,200.00	7,875.00	7,223.00	7,218.66	240.10	17.75	74.16	-229.44	953.31	9,508.68	9,424.82	83.86	113.393		
17,300.00	7,875.00	7,223.00	7,218.66	242.76	17.75	74.16	-229.44	953.31	9,605.50	9,521.57	83.93	114.451		
17,400.00	7,875.00	7,223.00	7,218.66	245.42	17.75	74.16	-229.44	953.31	9,702.37	9,618.38	84.00	115.510		
17,500.00	7,875.00	7,223.00	7,218.66	248.08	17.75	74.16	-229.44	953.31	9,799.32	9,715.25	84.07	116.568		
17,600.00	7,875.00	7,223.00	7,218.66	250.74	17.75	74.16	-229.44	953.31	9,896.32	9,812.18	84.13	117.626		
17,700.00	7,875.00	7,223.00	7,218.66	253.41	17.75	74.16	-229.44	953.31	9,993.38	9,909.18	84.20	118.683		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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	5.70	5.70	0.00	0.01	-0.06	249.88	-0.28	249.88						
100.00	100.00	105.70	105.70	0.13	0.15	-0.06	249.88	-0.28	249.88	249.59	0.29	863.791			
200.00	200.00	205.70	205.70	0.49	0.51	-0.06	249.88	-0.28	249.88	248.88	1.01	248.336			
206.19	206.19	211.89	211.89	0.52	0.54	-0.06	249.88	-0.28	249.88	248.83	1.05	237.848 CC			
250.00	250.00	255.34	255.34	0.67	0.69	-0.06	249.89	-0.28	249.89	248.52	1.36	183.288 ES			
300.00	300.00	302.16	302.16	0.84	0.86	-160.04	250.25	0.02	250.69	248.98	1.70	147.164			
400.00	399.93	395.56	395.50	1.19	1.19	-159.79	252.75	2.05	256.64	254.25	2.39	107.568			
500.00	499.68	488.23	487.96	1.54	1.53	-159.35	257.56	5.97	268.38	265.30	3.08	87.013			
600.00	599.13	579.72	579.00	1.92	1.87	-158.76	264.58	11.69	285.85	282.06	3.79	75.468			
700.00	698.15	669.60	668.10	2.32	2.22	-158.07	273.67	19.09	308.97	304.48	4.49	68.769			
800.00	796.63	757.47	754.82	2.74	2.59	-157.32	284.64	28.03	337.62	332.42	5.20	64.944			
900.00	894.44	846.50	842.24	3.21	2.97	-156.55	297.67	38.65	371.47	365.55	5.92	62.778			
1,000.00	991.46	939.27	933.26	3.71	3.38	-155.96	311.62	50.01	408.73	402.06	6.67	61.279			
1,100.00	1,087.58	1,030.83	1,023.08	4.25	3.80	-155.58	325.39	61.22	448.94	441.52	7.42	60.494			
1,200.00	1,182.68	1,121.05	1,111.59	4.83	4.22	-155.35	338.95	72.27	492.04	483.85	8.18	60.120			
1,288.87	1,266.25	1,200.03	1,189.06	5.39	4.58	-155.24	350.83	81.95	532.73	523.87	8.87	60.085			
1,300.00	1,276.66	1,209.84	1,198.69	5.46	4.63	-155.28	352.30	83.15	537.97	529.01	8.96	60.062			
1,400.00	1,370.15	1,301.97	1,285.21	6.12	5.06	-155.60	365.56	93.95	585.02	575.29	9.73	60.119			
1,500.00	1,463.65	1,386.23	1,371.73	6.80	5.45	-155.88	378.82	104.75	632.09	621.61	10.48	60.315			
1,600.00	1,557.15	1,474.42	1,458.25	7.48	5.86	-156.12	392.09	115.55	679.16	667.91	11.25	60.367			
1,700.00	1,650.64	1,562.61	1,544.77	8.16	6.28	-156.33	405.35	126.36	726.25	714.22	12.03	60.390			
1,800.00	1,744.14	1,650.81	1,631.28	8.85	6.69	-156.51	418.61	137.16	773.34	760.53	12.81	60.392			
1,900.00	1,837.64	1,739.00	1,717.80	9.55	7.11	-156.67	431.87	147.96	820.43	806.85	13.59	60.382			
2,000.00	1,931.13	1,827.19	1,804.32	10.24	7.53	-156.81	445.13	158.76	867.53	853.16	14.37	60.362			
2,100.00	2,024.63	1,915.39	1,890.84	10.94	7.95	-156.94	458.39	169.56	914.64	899.48	15.16	60.335			
2,200.00	2,118.12	2,003.58	1,977.36	11.64	8.37	-157.06	471.65	180.37	961.74	945.80	15.95	60.305			
2,300.00	2,211.62	2,108.23	2,063.88	12.35	8.86	-157.16	484.91	191.17	1,008.86	992.05	16.81	60.022			
2,400.00	2,305.12	2,179.97	2,150.40	13.05	9.20	-157.26	498.17	201.97	1,055.97	1,038.44	17.53	60.236			
2,500.00	2,398.61	2,268.16	2,236.92	13.75	9.62	-157.35	511.43	212.77	1,103.08	1,084.76	18.32	60.200			
2,600.00	2,492.11	2,356.35	2,323.44	14.46	10.04	-157.43	524.69	223.57	1,150.20	1,131.08	19.12	60.164			
2,700.00	2,585.61	2,444.55	2,409.95	15.17	10.46	-157.50	537.95	234.38	1,197.32	1,177.41	19.91	60.128			
2,800.00	2,679.10	2,532.74	2,496.47	15.87	10.88	-157.57	551.21	245.18	1,244.44	1,223.73	20.71	60.093			
2,900.00	2,772.60	2,620.93	2,582.99	16.58	11.30	-157.64	564.47	255.98	1,291.56	1,270.05	21.51	60.058			
3,000.00	2,866.10	2,709.13	2,669.51	17.29	11.73	-157.70	577.73	266.78	1,338.68	1,316.38	22.30	60.023			
3,100.00	2,959.59	2,802.68	2,756.03	18.00	12.17	-157.75	590.99	277.58	1,385.80	1,362.68	23.12	59.931			
3,200.00	3,053.09	2,885.51	2,842.55	18.71	12.57	-157.80	604.25	288.39	1,432.93	1,409.03	23.90	59.957			
3,300.00	3,146.59	2,973.71	2,929.07	19.42	12.99	-157.85	617.52	299.19	1,480.05	1,455.35	24.70	59.925			
3,400.00	3,240.08	3,061.90	3,015.59	20.13	13.41	-157.90	630.78	309.99	1,527.18	1,501.68	25.50	59.894			
3,500.00	3,333.58	3,150.09	3,102.11	20.84	13.83	-157.94	644.04	320.79	1,574.31	1,548.01	26.30	59.863			
3,600.00	3,427.08	3,238.29	3,188.63	21.55	14.25	-157.98	657.30	331.59	1,621.43	1,594.33	27.10	59.834			
3,700.00	3,520.57	3,326.48	3,275.14	22.26	14.67	-158.02	670.56	342.40	1,668.56	1,640.66	27.90	59.805			
3,800.00	3,614.07	3,414.67	3,361.66	22.97	15.10	-158.05	683.82	353.20	1,715.69	1,686.99	28.70	59.777			
3,900.00	3,707.57	3,502.87	3,448.18	23.69	15.52	-158.09	697.08	364.00	1,762.82	1,733.31	29.50	59.750			
4,000.00	3,801.06	3,608.94	3,534.70	24.40	16.02	-158.12	710.34	374.80	1,809.95	1,779.57	30.38	59.574			
4,100.00	3,894.56	3,679.25	3,621.22	25.11	16.36	-158.15	723.60	385.60	1,857.08	1,825.97	31.11	59.698			
4,200.00	3,988.05	3,767.45	3,707.74	25.82	16.78	-158.18	736.86	396.41	1,904.21	1,872.30	31.91	59.674			
4,300.00	4,081.55	3,855.64	3,794.26	26.53	17.20	-158.20	750.12	407.21	1,951.34	1,918.62	32.71	59.649			
4,400.00	4,175.05	3,943.83	3,880.78	27.25	17.63	-158.23	763.38	418.01	1,998.47	1,964.95	33.52	59.626			
4,500.00	4,268.54	4,032.03	3,967.30	27.96	18.05	-158.26	776.64	428.81	2,045.60	2,011.28	34.32	59.603			
4,600.00	4,362.04	4,120.22	4,053.82	28.67	18.47	-158.28	789.90	439.61	2,092.73	2,057.61	35.12	59.580			
4,700.00	4,455.54	4,208.41	4,140.33	29.38	18.89	-158.30	803.16	450.42	2,139.86	2,103.93	35.93	59.558			
4,800.00	4,549.03	4,303.39	4,226.85	30.10	19.35	-158.32	816.42	461.22	2,186.99	2,150.23	36.76	59.490			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
4,900.00	4,642.53	4,384.80	4,313.37	30.81	19.74	-158.35	829.68	472.02	2,234.13	2,196.59	37.54	59.516			
5,000.00	4,736.03	4,472.99	4,399.89	31.52	20.16	-158.37	842.95	482.82	2,281.26	2,242.91	38.34	59.495			
5,100.00	4,829.52	4,561.19	4,486.41	32.24	20.58	-158.38	856.21	493.62	2,328.39	2,289.24	39.15	59.475			
5,200.00	4,923.02	4,649.38	4,572.93	32.95	21.00	-158.40	869.47	504.42	2,375.52	2,335.57	39.95	59.456			
5,300.00	5,016.52	4,737.57	4,659.45	33.66	21.42	-158.42	882.73	515.23	2,422.66	2,381.90	40.76	59.437			
5,400.00	5,110.01	4,825.77	4,745.97	34.38	21.85	-158.44	895.99	526.03	2,469.79	2,428.22	41.57	59.418			
5,500.00	5,203.51	4,913.96	4,832.49	35.09	22.27	-158.45	909.25	536.83	2,516.92	2,474.55	42.37	59.399			
5,600.00	5,297.01	5,002.15	4,919.01	35.80	22.69	-158.47	922.51	547.63	2,564.06	2,520.88	43.18	59.381			
5,700.00	5,390.50	5,109.66	5,005.52	36.52	23.21	-158.49	935.77	558.43	2,611.19	2,567.12	44.07	59.253			
5,800.00	5,484.00	5,178.54	5,092.04	37.23	23.53	-158.50	949.03	569.24	2,658.32	2,613.53	44.79	59.346			
5,900.00	5,577.50	5,266.73	5,178.56	37.94	23.96	-158.51	962.29	580.04	2,705.46	2,659.86	45.60	59.329			
6,000.00	5,670.99	5,354.93	5,265.08	38.66	24.38	-158.53	975.55	590.84	2,752.59	2,706.18	46.41	59.312			
6,100.00	5,764.49	5,443.12	5,351.60	39.37	24.80	-158.54	988.81	601.64	2,799.72	2,752.51	47.22	59.295			
6,200.00	5,857.98	5,531.31	5,438.12	40.08	25.22	-158.55	1,002.07	612.44	2,846.86	2,798.83	48.02	59.279			
6,300.00	5,951.48	5,619.51	5,524.64	40.80	25.65	-158.57	1,015.33	623.25	2,893.99	2,845.16	48.83	59.263			
6,400.00	6,044.98	5,707.70	5,611.16	41.51	26.07	-158.58	1,028.59	634.05	2,941.13	2,891.49	49.64	59.247			
6,500.00	6,138.47	5,795.89	5,697.68	42.22	26.49	-158.59	1,041.85	644.85	2,988.26	2,937.81	50.45	59.231			
6,600.00	6,231.97	5,884.08	5,784.20	42.94	26.91	-158.60	1,055.11	655.65	3,035.40	2,984.14	51.26	59.216			
6,700.00	6,325.47	5,972.28	5,870.71	43.65	27.34	-158.61	1,068.38	666.45	3,082.53	3,030.46	52.07	59.201			
6,800.00	6,418.96	6,060.47	5,957.23	44.37	27.76	-158.62	1,081.64	677.26	3,129.67	3,076.79	52.88	59.185			
6,900.00	6,512.46	6,148.66	6,043.75	45.08	28.18	-158.63	1,094.90	688.06	3,176.80	3,123.11	53.69	59.170			
7,000.00	6,605.96	6,236.86	6,130.27	45.79	28.60	-158.64	1,108.16	698.86	3,223.94	3,169.44	54.50	59.156			
7,100.00	6,699.45	6,325.05	6,216.79	46.51	29.03	-158.65	1,121.42	709.66	3,271.07	3,215.76	55.31	59.141			
7,200.00	6,792.95	6,413.24	6,303.31	47.22	29.45	-158.66	1,134.68	720.46	3,318.21	3,262.09	56.12	59.127			
7,300.00	6,886.45	6,501.44	6,389.83	47.94	29.87	-158.67	1,147.94	731.27	3,365.34	3,308.41	56.93	59.112			
7,400.00	6,979.94	6,589.63	6,476.35	48.65	30.29	-158.68	1,161.20	742.07	3,412.48	3,354.73	57.74	59.098			
7,500.00	7,073.44	6,677.82	6,562.87	49.36	30.72	-158.69	1,174.46	752.87	3,459.61	3,401.06	58.55	59.084			
7,600.00	7,166.94	6,766.02	6,649.39	50.08	31.14	-158.70	1,187.72	763.67	3,506.75	3,447.38	59.37	59.070			
7,700.00	7,260.43	6,854.21	6,735.90	50.79	31.56	-158.71	1,200.98	774.47	3,553.88	3,493.70	60.18	59.056			
7,710.39	7,270.15	6,863.37	6,744.89	50.87	31.60	-158.71	1,202.36	775.60	3,558.78	3,498.52	60.26	59.055			
7,750.00	7,307.31	6,901.74	6,779.11	51.14	31.79	-171.23	1,207.60	779.87	3,577.49	3,516.90	60.59	59.042			
7,800.00	7,354.38	6,941.97	6,822.00	51.46	31.98	172.25	1,214.18	785.22	3,601.13	3,540.18	60.95	59.026			
7,850.00	7,401.31	6,985.01	6,864.22	51.75	32.19	156.49	1,220.65	790.49	3,624.64	3,563.34	61.30	59.180			
7,900.00	7,447.74	7,027.06	6,905.47	52.00	32.39	142.75	1,226.97	795.64	3,647.89	3,586.26	61.63	59.192			
7,950.00	7,493.32	7,067.79	6,945.43	52.22	32.58	131.40	1,233.09	800.63	3,670.74	3,608.81	61.93	59.276			
8,000.00	7,537.69	7,106.89	6,983.79	52.41	32.77	122.22	1,238.97	805.42	3,693.06	3,630.87	62.20	59.376			
8,050.00	7,580.52	7,144.07	7,020.26	52.57	32.95	114.79	1,244.56	809.98	3,714.77	3,652.33	62.45	59.487			
8,100.00	7,621.49	7,179.04	7,054.57	52.70	33.12	108.72	1,249.82	814.26	3,735.77	3,673.10	62.67	59.608			
8,150.00	7,660.28	7,211.54	7,086.45	52.81	33.27	103.69	1,254.71	818.24	3,755.98	3,693.10	62.88	59.734			
8,200.00	7,696.59	7,241.32	7,115.67	52.89	33.41	99.47	1,259.19	821.89	3,775.32	3,712.25	63.07	59.862			
8,250.00	7,730.16	7,268.15	7,141.99	52.95	33.54	95.90	1,263.22	825.17	3,793.72	3,730.48	63.24	59.987			
8,300.00	7,760.72	7,291.83	7,165.22	52.98	33.66	92.85	1,266.78	828.07	3,811.14	3,747.73	63.41	60.103			
8,350.00	7,788.05	7,312.18	7,185.18	53.00	33.75	90.23	1,269.84	830.57	3,827.50	3,763.93	63.57	60.206			
8,400.00	7,811.93	7,329.05	7,201.72	53.00	33.84	87.96	1,272.38	832.63	3,842.76	3,779.02	63.74	60.290			
8,450.00	7,832.18	7,342.29	7,214.72	52.99	33.90	86.01	1,274.37	834.25	3,856.85	3,792.94	63.91	60.352			
8,500.00	7,848.65	7,351.83	7,224.07	52.95	33.94	84.33	1,275.80	835.42	3,869.72	3,805.64	64.08	60.386			
8,550.00	7,861.21	7,357.57	7,229.71	52.91	33.97	82.90	1,276.67	836.12	3,881.31	3,817.04	64.27	60.390			
8,600.00	7,869.78	7,359.48	7,231.58	52.85	33.98	81.70	1,276.95	836.36	3,891.57	3,827.10	64.47	60.363			
8,650.00	7,874.27	7,357.55	7,229.69	52.78	33.97	80.73	1,276.66	836.12	3,900.43	3,835.75	64.68	60.306			
8,679.79	7,875.00	8,354.69	7,875.00	52.74	34.38	89.92	1,371.74	251.06	3,904.19	3,835.90	68.29	57.174			
8,700.00	7,875.00	8,374.90	7,875.00	52.70	34.37	89.92	1,371.62	230.85	3,904.10	3,835.55	68.54	56.957			
8,800.00	7,875.00	8,474.90	7,875.00	52.56	34.43	89.92	1,371.05	130.85	3,903.63	3,833.57	70.07	55.714			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
8,900.00	7,875.00	8,574.89	7,875.00	52.44	34.87	89.92	1,370.47	30.85	3,903.17	3,831.22	71.95	54.248			
9,000.00	7,875.00	8,674.89	7,875.00	52.34	35.84	89.92	1,369.90	-69.15	3,902.71	3,828.54	74.18	52.613			
9,100.00	7,875.00	8,774.89	7,875.00	52.27	37.14	89.92	1,369.32	-169.14	3,902.25	3,825.53	76.72	50.864			
9,200.00	7,875.00	8,874.89	7,875.00	52.22	38.62	89.92	1,368.75	-269.14	3,901.79	3,822.25	79.54	49.052			
9,300.00	7,875.00	8,974.89	7,875.00	52.20	40.25	89.92	1,368.17	-369.14	3,901.33	3,818.71	82.62	47.218			
9,400.00	7,875.00	9,074.89	7,875.00	52.24	41.99	89.92	1,367.60	-469.14	3,900.87	3,814.94	85.93	45.396			
9,500.00	7,875.00	9,174.89	7,875.00	52.35	43.83	89.92	1,367.02	-569.13	3,900.41	3,810.97	89.44	43.610			
9,600.00	7,875.00	9,274.89	7,875.00	52.62	45.75	89.92	1,366.45	-669.13	3,899.95	3,806.82	93.13	41.878			
9,700.00	7,875.00	9,374.89	7,875.00	53.16	47.74	89.92	1,365.87	-769.13	3,899.49	3,802.51	96.97	40.212			
9,800.00	7,875.00	9,474.89	7,875.00	54.13	49.80	89.92	1,365.30	-869.12	3,899.03	3,798.07	100.96	38.620			
9,900.00	7,875.00	9,574.88	7,875.00	55.55	51.91	89.92	1,364.72	-969.12	3,898.57	3,793.49	105.07	37.104			
10,000.00	7,875.00	9,674.88	7,875.00	57.28	54.07	89.92	1,364.15	-1,069.12	3,898.10	3,788.81	109.29	35.667			
10,100.00	7,875.00	9,774.88	7,875.00	59.21	56.27	89.92	1,363.57	-1,169.12	3,897.64	3,784.03	113.61	34.306			
10,200.00	7,875.00	9,874.88	7,875.00	61.26	58.52	89.92	1,363.00	-1,269.11	3,897.18	3,779.16	118.02	33.021			
10,300.00	7,875.00	9,974.88	7,875.00	63.38	60.80	89.92	1,362.42	-1,369.11	3,896.72	3,774.22	122.51	31.809			
10,400.00	7,875.00	10,074.88	7,875.00	65.57	63.11	89.92	1,361.85	-1,469.11	3,896.26	3,769.20	127.06	30.665			
10,500.00	7,875.00	10,174.88	7,875.00	67.80	65.45	89.92	1,361.27	-1,569.11	3,895.80	3,764.12	131.68	29.586			
10,600.00	7,875.00	10,274.88	7,875.00	70.07	67.81	89.92	1,360.70	-1,669.10	3,895.34	3,758.99	136.35	28.568			
10,700.00	7,875.00	10,374.88	7,875.00	72.37	70.20	89.92	1,360.12	-1,769.10	3,894.88	3,753.80	141.08	27.608			
10,800.00	7,875.00	10,474.87	7,875.00	74.70	72.61	89.92	1,359.55	-1,869.10	3,894.42	3,748.57	145.85	26.702			
10,900.00	7,875.00	10,574.87	7,875.00	77.06	75.04	89.92	1,358.97	-1,969.09	3,893.96	3,743.30	150.66	25.846			
11,000.00	7,875.00	10,674.87	7,875.00	79.44	77.48	89.92	1,358.40	-2,069.09	3,893.50	3,737.99	155.51	25.038			
11,100.00	7,875.00	10,774.87	7,875.00	81.84	79.94	89.92	1,357.82	-2,169.09	3,893.04	3,732.65	160.39	24.272			
11,200.00	7,875.00	10,874.87	7,875.00	84.26	82.41	89.92	1,357.25	-2,269.09	3,892.57	3,727.27	165.30	23.548			
11,300.00	7,875.00	10,974.87	7,875.00	86.69	84.90	89.92	1,356.67	-2,369.08	3,892.11	3,721.87	170.25	22.862			
11,400.00	7,875.00	11,074.87	7,875.00	89.14	87.40	89.92	1,356.10	-2,469.08	3,891.65	3,716.44	175.21	22.211			
11,500.00	7,875.00	11,174.87	7,875.00	91.60	89.91	89.92	1,355.52	-2,569.08	3,891.19	3,710.99	180.21	21.593			
11,600.00	7,875.00	11,274.87	7,875.00	94.07	92.43	89.92	1,354.95	-2,669.08	3,890.73	3,705.51	185.22	21.006			
11,700.00	7,875.00	11,374.87	7,875.00	96.56	94.95	89.92	1,354.37	-2,769.07	3,890.27	3,700.02	190.25	20.448			
11,800.00	7,875.00	11,474.86	7,875.00	99.05	97.49	89.92	1,353.80	-2,869.07	3,889.81	3,694.50	195.31	19.916			
11,900.00	7,875.00	11,574.86	7,875.00	101.56	100.04	89.92	1,353.22	-2,969.07	3,889.35	3,688.97	200.38	19.410			
12,000.00	7,875.00	11,674.86	7,875.00	104.07	102.59	89.92	1,352.65	-3,069.06	3,888.89	3,683.42	205.46	18.927			
12,100.00	7,875.00	11,774.86	7,875.00	106.60	105.15	89.92	1,352.07	-3,169.06	3,888.43	3,677.86	210.56	18.467			
12,200.00	7,875.00	11,874.86	7,875.00	109.13	107.71	89.92	1,351.50	-3,269.06	3,887.97	3,672.29	215.68	18.027			
12,300.00	7,875.00	11,974.86	7,875.00	111.66	110.28	89.92	1,350.92	-3,369.06	3,887.51	3,666.70	220.81	17.606			
12,400.00	7,875.00	12,074.86	7,875.00	114.21	112.86	89.92	1,350.35	-3,469.05	3,887.04	3,661.10	225.95	17.203			
12,500.00	7,875.00	12,174.86	7,875.00	116.76	115.44	89.92	1,349.77	-3,569.05	3,886.58	3,655.49	231.10	16.818			
12,600.00	7,875.00	12,274.86	7,875.00	119.32	118.03	89.92	1,349.20	-3,669.05	3,886.12	3,649.87	236.26	16.449			
12,700.00	7,875.00	12,374.85	7,875.00	121.88	120.62	89.92	1,348.62	-3,769.05	3,885.66	3,644.23	241.43	16.095			
12,800.00	7,875.00	12,474.85	7,875.00	124.45	123.21	89.92	1,348.05	-3,869.04	3,885.20	3,638.59	246.61	15.755			
12,900.00	7,875.00	12,574.85	7,875.00	127.02	125.81	89.92	1,347.47	-3,969.04	3,884.74	3,632.95	251.79	15.428			
13,000.00	7,875.00	12,674.85	7,875.00	129.60	128.42	89.92	1,346.90	-4,069.04	3,884.28	3,627.29	256.99	15.114			
13,100.00	7,875.00	12,774.85	7,875.00	132.18	131.02	89.92	1,346.32	-4,169.03	3,883.82	3,621.62	262.19	14.813			
13,200.00	7,875.00	12,874.85	7,875.00	134.77	133.63	89.92	1,345.75	-4,269.03	3,883.36	3,615.95	267.41	14.522			
13,300.00	7,875.00	12,974.85	7,875.00	137.36	136.25	89.92	1,345.17	-4,369.03	3,882.90	3,610.27	272.62	14.243			
13,400.00	7,875.00	13,074.85	7,875.00	139.96	138.86	89.92	1,344.60	-4,469.03	3,882.44	3,604.59	277.85	13.973			
13,500.00	7,875.00	13,174.85	7,875.00	142.55	141.48	89.92	1,344.02	-4,569.02	3,881.98	3,598.90	283.08	13.713			
13,600.00	7,875.00	13,274.85	7,875.00	145.15	144.10	89.92	1,343.45	-4,669.02	3,881.51	3,593.20	288.31	13.463			
13,700.00	7,875.00	13,374.84	7,875.00	147.76	146.73	89.92	1,342.87	-4,769.02	3,881.05	3,587.50	293.55	13.221			
13,800.00	7,875.00	13,474.84	7,875.00	150.37	149.35	89.92	1,342.30	-4,869.02	3,880.59	3,581.79	298.80	12.987			
13,900.00	7,875.00	13,574.84	7,875.00	152.98	151.98	89.92	1,341.72	-4,969.01	3,880.13	3,576.08	304.05	12.761			
14,000.00	7,875.00	13,674.84	7,875.00	155.59	154.61	89.92	1,341.15	-5,069.01	3,879.67	3,570.37	309.31	12.543			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
14,100.00	7,875.00	13,774.84	7,875.00	158.20	157.24	89.92	1,340.57	-5,169.01	3,879.21	3,564.64	314.57	12.332			
14,200.00	7,875.00	13,874.84	7,875.00	160.82	159.88	89.92	1,340.00	-5,269.00	3,878.75	3,558.92	319.83	12.128			
14,300.00	7,875.00	13,974.84	7,875.00	163.44	162.51	89.92	1,339.42	-5,369.00	3,878.29	3,553.19	325.10	11.930			
14,400.00	7,875.00	14,074.84	7,875.00	166.06	165.15	89.92	1,338.85	-5,469.00	3,877.83	3,547.46	330.37	11.738			
14,500.00	7,875.00	14,174.84	7,875.00	168.69	167.79	89.92	1,338.27	-5,569.00	3,877.37	3,541.72	335.64	11.552			
14,600.00	7,875.00	14,274.83	7,875.00	171.32	170.43	89.92	1,337.70	-5,668.99	3,876.91	3,535.98	340.92	11.372			
14,700.00	7,875.00	14,374.83	7,875.00	173.94	173.08	89.92	1,337.12	-5,768.99	3,876.45	3,530.24	346.20	11.197			
14,800.00	7,875.00	14,474.83	7,875.00	176.57	175.72	89.92	1,336.55	-5,868.99	3,875.98	3,524.50	351.49	11.027			
14,900.00	7,875.00	14,574.83	7,875.00	179.21	178.37	89.92	1,335.97	-5,968.99	3,875.52	3,518.75	356.78	10.863			
15,000.00	7,875.00	14,674.83	7,875.00	181.84	181.01	89.92	1,335.40	-6,068.98	3,875.06	3,513.00	362.07	10.703			
15,100.00	7,875.00	14,774.83	7,875.00	184.48	183.66	89.92	1,334.82	-6,168.98	3,874.60	3,507.24	367.36	10.547			
15,200.00	7,875.00	14,874.83	7,875.00	187.11	186.31	89.92	1,334.25	-6,268.98	3,874.14	3,501.49	372.66	10.396			
15,300.00	7,875.00	14,974.83	7,875.00	189.75	188.96	89.92	1,333.67	-6,368.98	3,873.68	3,495.73	377.95	10.249			
15,400.00	7,875.00	15,074.83	7,875.00	192.39	191.61	89.92	1,333.10	-6,468.97	3,873.22	3,489.97	383.25	10.106			
15,500.00	7,875.00	15,174.82	7,875.00	195.03	194.27	89.92	1,332.52	-6,568.97	3,872.76	3,484.20	388.56	9.967			
15,600.00	7,875.00	15,274.82	7,875.00	197.67	196.92	89.92	1,331.95	-6,668.97	3,872.30	3,478.44	393.86	9.832			
15,700.00	7,875.00	15,374.82	7,875.00	200.32	199.57	89.92	1,331.37	-6,768.96	3,871.84	3,472.67	399.17	9.700			
15,800.00	7,875.00	15,474.82	7,875.00	202.96	202.23	89.92	1,330.80	-6,868.96	3,871.38	3,466.90	404.48	9.571			
15,900.00	7,875.00	15,574.82	7,875.00	205.61	204.89	89.92	1,330.22	-6,968.96	3,870.92	3,461.13	409.79	9.446			
16,000.00	7,875.00	15,674.82	7,875.00	208.26	207.54	89.92	1,329.64	-7,068.96	3,870.45	3,455.35	415.10	9.324			
16,100.00	7,875.00	15,774.82	7,875.00	210.91	210.20	89.92	1,329.07	-7,168.95	3,869.99	3,449.58	420.42	9.205			
16,200.00	7,875.00	15,874.82	7,875.00	213.56	212.86	89.92	1,328.49	-7,268.95	3,869.53	3,443.80	425.73	9.089			
16,300.00	7,875.00	15,974.82	7,875.00	216.21	215.52	89.92	1,327.92	-7,368.95	3,869.07	3,438.02	431.05	8.976			
16,400.00	7,875.00	16,074.82	7,875.00	218.86	218.18	89.92	1,327.34	-7,468.95	3,868.61	3,432.24	436.37	8.865			
16,500.00	7,875.00	16,174.81	7,875.00	221.51	220.84	89.92	1,326.77	-7,568.94	3,868.15	3,426.46	441.69	8.758			
16,600.00	7,875.00	16,274.81	7,875.00	224.16	223.51	89.92	1,326.19	-7,668.94	3,867.69	3,420.67	447.02	8.652			
16,700.00	7,875.00	16,374.81	7,875.00	226.82	226.17	89.92	1,325.62	-7,768.94	3,867.23	3,414.89	452.34	8.549			
16,800.00	7,875.00	16,474.81	7,875.00	229.47	228.83	89.92	1,325.04	-7,868.93	3,866.77	3,409.10	457.67	8.449			
16,900.00	7,875.00	16,574.81	7,875.00	232.13	231.50	89.92	1,324.47	-7,968.93	3,866.31	3,403.31	462.99	8.351			
17,000.00	7,875.00	16,674.81	7,875.00	234.79	234.16	89.92	1,323.89	-8,068.93	3,865.85	3,397.52	468.32	8.255			
17,100.00	7,875.00	16,774.81	7,875.00	237.44	236.83	89.92	1,323.32	-8,168.93	3,865.39	3,391.73	473.65	8.161			
17,200.00	7,875.00	16,874.81	7,875.00	240.10	239.49	89.92	1,322.74	-8,268.92	3,864.92	3,385.94	478.98	8.069			
17,300.00	7,875.00	16,974.81	7,875.00	242.76	242.16	89.92	1,322.17	-8,368.92	3,864.46	3,380.15	484.31	7.979			
17,400.00	7,875.00	17,074.80	7,875.00	245.42	244.83	89.92	1,321.59	-8,468.92	3,864.00	3,374.36	489.65	7.891			
17,500.00	7,875.00	17,174.80	7,875.00	248.08	247.49	89.92	1,321.02	-8,568.92	3,863.54	3,368.56	494.98	7.805			
17,600.00	7,875.00	17,274.80	7,875.00	250.74	250.16	89.92	1,320.44	-8,668.91	3,863.08	3,362.77	500.32	7.721			
17,700.00	7,875.00	17,374.80	7,875.00	253.41	252.83	89.92	1,319.87	-8,768.91	3,862.62	3,356.97	505.65	7.639			
17,800.00	7,875.00	17,474.80	7,875.00	256.07	255.50	89.92	1,319.29	-8,868.91	3,862.16	3,351.17	510.99	7.558			
17,900.00	7,875.00	17,574.80	7,875.00	258.73	258.17	89.92	1,318.72	-8,968.90	3,861.70	3,345.37	516.33	7.479			
18,000.00	7,875.00	17,674.80	7,875.00	261.39	260.84	89.92	1,318.14	-9,068.90	3,861.24	3,339.57	521.67	7.402			
18,100.00	7,875.00	17,774.80	7,875.00	264.06	263.51	89.92	1,317.57	-9,168.90	3,860.78	3,333.77	527.01	7.326			
18,200.00	7,875.00	17,874.80	7,875.00	266.72	266.18	89.92	1,316.99	-9,268.90	3,860.32	3,327.97	532.35	7.251			
18,300.00	7,875.00	17,974.80	7,875.00	269.39	268.85	89.92	1,316.42	-9,368.89	3,859.86	3,322.17	537.69	7.179			
18,400.00	7,875.00	18,074.79	7,875.00	272.05	271.52	89.92	1,315.84	-9,468.89	3,859.39	3,316.36	543.03	7.107			
18,500.00	7,875.00	18,174.79	7,875.00	274.72	274.20	89.92	1,315.27	-9,568.89	3,858.93	3,310.56	548.37	7.037			
18,564.71	7,875.00	18,221.72	7,875.00	276.45	275.45	89.92	1,315.00	-9,615.82	3,858.68	3,307.36	551.32	6.999			
18,575.92	7,875.00	18,221.72	7,875.00	276.74	275.45	89.92	1,315.00	-9,615.82	3,858.69	3,307.10	551.59	6.996 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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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	4.90	4.90	0.00	0.01	-0.08	199.98	-0.28	199.98						
100.00	100.00	104.90	104.90	0.13	0.15	-0.08	199.98	-0.28	199.98	199.70	0.29	698.219			
200.00	200.00	204.90	204.90	0.49	0.51	-0.08	199.98	-0.28	199.98	198.98	1.00	199.313			
250.00	250.00	254.90	254.90	0.67	0.69	-0.08	199.98	-0.28	199.98	198.62	1.36	146.848 CC, ES			
300.00	300.00	303.10	303.10	0.84	0.86	-160.01	200.22	0.15	200.64	198.93	1.70	117.690			
400.00	399.93	399.63	399.56	1.19	1.21	-159.47	201.87	3.14	205.64	203.24	2.39	85.927			
500.00	499.68	495.55	495.25	1.54	1.55	-158.48	205.06	8.93	215.57	212.47	3.10	69.494			
600.00	599.13	590.51	589.71	1.92	1.91	-157.18	209.75	17.42	230.48	226.66	3.82	60.277			
700.00	698.15	685.90	684.26	2.32	2.29	-155.70	215.85	28.47	250.24	245.68	4.56	54.862			
800.00	796.63	783.06	780.49	2.74	2.68	-154.57	222.33	40.23	273.52	268.20	5.32	51.425			
900.00	894.44	879.49	875.99	3.21	3.07	-153.85	228.77	51.90	299.89	293.81	6.09	49.282			
1,000.00	991.46	975.06	970.64	3.71	3.47	-153.45	235.15	63.47	329.28	322.43	6.86	48.003			
1,100.00	1,087.58	1,069.67	1,064.35	4.25	3.86	-153.30	241.47	74.92	361.65	354.00	7.64	47.317			
1,200.00	1,182.68	1,163.20	1,156.97	4.83	4.25	-153.33	247.72	86.23	396.95	388.52	8.43	47.071			
1,288.87	1,266.25	1,245.32	1,238.31	5.39	4.59	-153.47	253.20	96.17	430.78	421.64	9.14	47.128			
1,300.00	1,276.66	1,255.54	1,248.43	5.46	4.64	-153.53	253.88	97.41	435.16	425.93	9.23	47.128			
1,400.00	1,370.15	1,347.38	1,339.39	6.12	5.02	-154.05	260.01	108.52	474.54	464.52	10.02	47.350			
1,500.00	1,463.65	1,439.22	1,430.34	6.80	5.41	-154.50	266.15	119.64	513.95	503.14	10.82	47.517			
1,600.00	1,557.15	1,531.06	1,521.30	7.48	5.80	-154.88	272.28	130.75	553.39	541.77	11.61	47.645			
1,700.00	1,650.64	1,622.90	1,612.26	8.16	6.18	-155.20	278.41	141.86	592.84	580.42	12.42	47.744			
1,800.00	1,744.14	1,714.74	1,703.22	8.85	6.57	-155.49	284.54	152.98	632.30	619.08	13.22	47.822			
1,900.00	1,837.64	1,806.58	1,794.18	9.55	6.96	-155.75	290.67	164.09	671.78	657.75	14.03	47.885			
2,000.00	1,931.13	1,901.58	1,885.14	10.24	7.36	-155.97	296.81	175.21	711.26	696.41	14.85	47.893			
2,100.00	2,024.63	2,009.74	1,976.10	10.94	7.82	-156.17	302.94	186.32	750.76	735.03	15.73	47.731			
2,200.00	2,118.12	2,082.10	2,067.05	11.64	8.12	-156.36	309.07	197.43	790.26	773.80	16.46	48.009			
2,300.00	2,211.62	2,173.94	2,158.01	12.35	8.51	-156.52	315.20	208.55	829.76	812.49	17.27	48.036			
2,400.00	2,305.12	2,265.78	2,248.97	13.05	8.90	-156.67	321.33	219.66	869.28	851.19	18.09	48.059			
2,500.00	2,398.61	2,357.62	2,339.93	13.75	9.29	-156.81	327.47	230.78	908.79	889.89	18.90	48.077			
2,600.00	2,492.11	2,449.46	2,430.89	14.46	9.68	-156.93	333.60	241.89	948.32	928.60	19.72	48.093			
2,700.00	2,585.61	2,541.30	2,521.85	15.17	10.06	-157.05	339.73	253.00	987.84	967.31	20.53	48.106			
2,800.00	2,679.10	2,633.14	2,612.81	15.87	10.45	-157.15	345.86	264.12	1,027.37	1,006.02	21.35	48.116			
2,900.00	2,772.60	2,724.98	2,703.77	16.58	10.84	-157.25	351.99	275.23	1,066.90	1,044.73	22.17	48.125			
3,000.00	2,866.10	2,816.82	2,794.72	17.29	11.23	-157.34	358.13	286.35	1,106.43	1,083.45	22.99	48.133			
3,100.00	2,959.59	2,908.66	2,885.68	18.00	11.62	-157.43	364.26	297.46	1,145.97	1,122.16	23.81	48.139			
3,200.00	3,053.09	3,000.50	2,976.64	18.71	12.01	-157.51	370.39	308.58	1,185.51	1,160.88	24.62	48.144			
3,300.00	3,146.59	3,107.66	3,067.60	19.42	12.46	-157.58	376.52	319.69	1,225.04	1,199.54	25.51	48.028			
3,400.00	3,240.08	3,184.18	3,158.56	20.13	12.79	-157.65	382.65	330.80	1,264.59	1,238.32	26.26	48.151			
3,500.00	3,333.58	3,276.02	3,249.52	20.84	13.18	-157.72	388.79	341.92	1,304.13	1,277.04	27.08	48.153			
3,600.00	3,427.08	3,367.86	3,340.48	21.55	13.57	-157.78	394.92	353.03	1,343.67	1,315.77	27.90	48.155			
3,700.00	3,520.57	3,459.70	3,431.43	22.26	13.96	-157.84	401.05	364.15	1,383.22	1,354.49	28.72	48.156			
3,800.00	3,614.07	3,551.54	3,522.39	22.97	14.35	-157.89	407.18	375.26	1,422.76	1,393.22	29.54	48.157			
3,900.00	3,707.57	3,643.38	3,613.35	23.69	14.74	-157.94	413.31	386.37	1,462.31	1,431.94	30.37	48.158			
4,000.00	3,801.06	3,735.22	3,704.31	24.40	15.13	-157.99	419.45	397.49	1,501.86	1,470.67	31.19	48.158			
4,100.00	3,894.56	3,827.06	3,795.27	25.11	15.52	-158.04	425.58	408.60	1,541.41	1,509.40	32.01	48.157			
4,200.00	3,988.05	3,918.90	3,886.23	25.82	15.91	-158.08	431.71	419.72	1,580.96	1,548.13	32.83	48.157			
4,300.00	4,081.55	4,010.74	3,977.19	26.53	16.29	-158.13	437.84	430.83	1,620.51	1,586.86	33.65	48.156			
4,400.00	4,175.05	4,102.58	4,068.14	27.25	16.68	-158.17	443.97	441.94	1,660.06	1,625.58	34.47	48.155			
4,500.00	4,268.54	4,205.58	4,159.10	27.96	17.12	-158.20	450.11	453.06	1,699.61	1,664.27	35.34	48.091			
4,600.00	4,362.04	4,286.26	4,250.06	28.67	17.46	-158.24	456.24	464.17	1,739.16	1,703.04	36.12	48.152			
4,700.00	4,455.54	4,378.10	4,341.02	29.38	17.85	-158.28	462.37	475.29	1,778.71	1,741.77	36.94	48.151			
4,800.00	4,549.03	4,469.94	4,431.98	30.10	18.24	-158.31	468.50	486.40	1,818.27	1,780.50	37.76	48.149			
4,900.00	4,642.53	4,561.78	4,522.94	30.81	18.63	-158.34	474.63	497.51	1,857.82	1,819.24	38.59	48.147			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
5,000.00	4,736.03	4,653.62	4,613.90	31.52	19.02	-158.37	480.77	508.63	1,897.38	1,857.97	39.41	48.145			
5,100.00	4,829.52	4,745.46	4,704.85	32.24	19.41	-158.40	486.90	519.74	1,936.93	1,896.70	40.23	48.143			
5,200.00	4,923.02	4,837.30	4,795.81	32.95	19.80	-158.43	493.03	530.86	1,976.49	1,935.43	41.06	48.140			
5,300.00	5,016.52	4,929.14	4,886.77	33.66	20.19	-158.46	499.16	541.97	2,016.04	1,974.16	41.88	48.138			
5,400.00	5,110.01	5,020.98	4,977.73	34.38	20.58	-158.48	505.29	553.08	2,055.60	2,012.89	42.70	48.136			
5,500.00	5,203.51	5,112.82	5,068.69	35.09	20.97	-158.51	511.43	564.20	2,095.16	2,051.63	43.53	48.133			
5,600.00	5,297.01	5,204.66	5,159.65	35.80	21.36	-158.53	517.56	575.31	2,134.71	2,090.36	44.35	48.130			
5,700.00	5,390.50	5,303.50	5,250.61	36.52	21.78	-158.56	523.69	586.43	2,174.27	2,129.06	45.21	48.097			
5,800.00	5,484.00	5,388.34	5,341.56	37.23	22.14	-158.58	529.82	597.54	2,213.83	2,167.83	46.00	48.125			
5,900.00	5,577.50	5,480.18	5,432.52	37.94	22.53	-158.60	535.95	608.66	2,253.38	2,206.56	46.83	48.122			
6,000.00	5,670.99	5,572.02	5,523.48	38.66	22.92	-158.62	542.09	619.77	2,292.94	2,245.29	47.65	48.119			
6,100.00	5,764.49	5,663.86	5,614.44	39.37	23.31	-158.64	548.22	630.88	2,332.50	2,284.02	48.48	48.116			
6,200.00	5,857.98	5,755.70	5,705.40	40.08	23.70	-158.66	554.35	642.00	2,372.06	2,322.76	49.30	48.113			
6,300.00	5,951.48	5,847.54	5,796.36	40.80	24.09	-158.68	560.48	653.11	2,411.62	2,361.49	50.13	48.110			
6,400.00	6,044.98	5,939.38	5,887.32	41.51	24.48	-158.70	566.61	664.23	2,451.18	2,400.22	50.95	48.107			
6,500.00	6,138.47	6,031.22	5,978.27	42.22	24.87	-158.72	572.75	675.34	2,490.74	2,438.96	51.78	48.103			
6,600.00	6,231.97	6,123.06	6,069.23	42.94	25.26	-158.73	578.88	686.45	2,530.29	2,477.69	52.60	48.100			
6,700.00	6,325.47	6,214.90	6,160.19	43.65	25.65	-158.75	585.01	697.57	2,569.85	2,516.42	53.43	48.097			
6,800.00	6,418.96	6,306.74	6,251.15	44.37	26.04	-158.77	591.14	708.68	2,609.41	2,555.16	54.26	48.093			
6,900.00	6,512.46	6,401.42	6,342.11	45.08	26.44	-158.78	597.27	719.80	2,648.97	2,593.88	55.10	48.080			
7,000.00	6,605.96	6,509.58	6,433.07	45.79	26.90	-158.80	603.41	730.91	2,688.53	2,632.54	55.99	48.018			
7,100.00	6,699.45	6,582.26	6,524.03	46.51	27.21	-158.81	609.54	742.02	2,728.09	2,671.36	56.74	48.083			
7,200.00	6,792.95	6,674.10	6,614.98	47.22	27.60	-158.82	615.67	753.14	2,767.65	2,710.09	57.56	48.079			
7,300.00	6,886.45	6,765.94	6,705.94	47.94	27.99	-158.84	621.80	764.25	2,807.21	2,748.82	58.39	48.076			
7,400.00	6,979.94	6,857.78	6,796.90	48.65	28.38	-158.85	627.93	775.37	2,846.78	2,787.56	59.22	48.072			
7,500.00	7,073.44	6,949.62	6,887.86	49.36	28.77	-158.87	634.07	786.48	2,886.34	2,826.29	60.05	48.068			
7,600.00	7,166.94	7,041.46	6,978.82	50.08	29.16	-158.88	640.20	797.59	2,925.90	2,865.02	60.87	48.064			
7,700.00	7,260.43	7,133.30	7,069.78	50.79	29.55	-158.89	646.33	808.71	2,965.46	2,903.76	61.70	48.061			
7,710.39	7,270.15	7,142.84	7,079.23	50.87	29.59	-158.89	646.97	809.86	2,969.57	2,907.78	61.79	48.060			
7,750.00	7,307.31	7,179.18	7,115.21	51.14	29.74	-171.00	649.39	814.26	2,985.28	2,923.17	62.11	48.063			
7,800.00	7,354.38	7,224.73	7,160.33	51.46	29.94	173.01	652.44	819.77	3,005.15	2,942.65	62.50	48.079			
7,850.00	7,401.31	7,269.62	7,204.79	51.75	30.13	157.78	655.43	825.21	3,024.95	2,962.07	62.88	48.109			
7,900.00	7,447.74	7,313.50	7,248.25	52.00	30.31	144.56	658.36	830.52	3,044.56	2,981.33	63.23	48.150			
7,950.00	7,493.32	7,356.04	7,290.38	52.22	30.49	133.71	661.20	835.66	3,063.89	3,000.33	63.57	48.201			
8,000.00	7,537.69	7,399.20	7,333.19	52.41	30.67	125.02	664.09	840.37	3,082.86	3,018.97	63.89	48.251			
8,050.00	7,580.52	7,445.33	7,379.16	52.57	30.84	118.06	667.16	842.14	3,101.33	3,037.13	64.20	48.309			
8,100.00	7,621.49	7,493.69	7,427.35	52.70	30.98	112.44	670.37	840.01	3,119.16	3,054.69	64.47	48.379			
8,150.00	7,660.28	7,544.72	7,477.82	52.81	31.09	107.86	673.69	833.35	3,136.23	3,071.51	64.72	48.456			
8,200.00	7,696.59	7,598.96	7,530.59	52.89	31.19	104.10	677.15	821.38	3,152.41	3,087.46	64.95	48.534			
8,250.00	7,730.16	7,656.99	7,585.52	52.95	31.27	101.02	680.71	803.10	3,167.56	3,102.40	65.16	48.612			
8,300.00	7,760.72	7,719.46	7,642.27	52.98	31.32	98.50	684.34	777.31	3,181.55	3,116.20	65.34	48.689			
8,350.00	7,788.05	7,787.06	7,700.13	53.00	31.35	96.46	688.00	742.62	3,194.23	3,128.72	65.51	48.756			
8,400.00	7,811.93	7,860.41	7,757.82	53.00	31.36	94.84	691.59	697.54	3,205.47	3,139.79	65.68	48.806			
8,450.00	7,832.18	7,939.98	7,813.35	52.99	31.37	93.59	694.97	640.74	3,215.11	3,149.26	65.86	48.821			
8,500.00	7,848.65	8,025.87	7,863.87	52.95	31.40	92.65	697.94	571.44	3,223.01	3,156.93	66.08	48.771			
8,550.00	7,861.21	8,117.62	7,905.77	52.91	31.49	91.98	700.27	489.96	3,229.02	3,162.61	66.41	48.621			
8,600.00	7,869.78	8,214.03	7,935.25	52.85	31.71	91.53	701.71	398.30	3,233.02	3,166.13	66.89	48.332			
8,650.00	7,874.27	8,313.13	7,949.14	52.78	32.10	91.29	702.07	300.30	3,234.92	3,167.37	67.55	47.889			
8,679.79	7,875.00	8,358.54	7,950.00	52.74	32.34	91.24	701.87	254.91	3,235.06	3,167.09	67.97	47.597			
8,700.00	7,875.00	8,378.75	7,950.00	52.70	32.46	91.24	701.75	234.70	3,234.97	3,166.74	68.23	47.414			
8,800.00	7,875.00	8,478.75	7,950.00	52.56	33.22	91.24	701.18	134.70	3,234.51	3,164.75	69.76	46.366			
8,900.00	7,875.00	8,578.75	7,950.00	52.44	34.19	91.24	700.60	34.71	3,234.05	3,162.39	71.66	45.133			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
9,000.00	7,875.00	8,678.75	7,950.00	52.34	35.35	91.24	700.03	-65.29	3,233.59	3,159.69	73.90	43.758			
9,100.00	7,875.00	8,778.74	7,950.00	52.27	36.69	91.24	699.45	-165.29	3,233.13	3,156.67	76.45	42.290			
9,200.00	7,875.00	8,878.74	7,950.00	52.22	38.17	91.24	698.88	-265.28	3,232.67	3,153.38	79.29	40.770			
9,300.00	7,875.00	8,978.74	7,950.00	52.20	39.78	91.24	698.30	-365.28	3,232.20	3,149.82	82.38	39.234			
9,400.00	7,875.00	9,078.74	7,950.00	52.24	41.50	91.24	697.73	-465.28	3,231.74	3,146.04	85.70	37.710			
9,500.00	7,875.00	9,178.74	7,950.00	52.35	43.33	91.24	697.15	-565.28	3,231.28	3,142.06	89.22	36.217			
9,600.00	7,875.00	9,278.74	7,950.00	52.62	45.24	91.24	696.58	-665.27	3,230.82	3,137.90	92.92	34.770			
9,700.00	7,875.00	9,378.74	7,950.00	53.16	47.22	91.24	696.00	-765.27	3,230.36	3,133.59	96.78	33.380			
9,800.00	7,875.00	9,478.74	7,950.00	54.13	49.27	91.24	695.43	-865.27	3,229.90	3,129.13	100.77	32.052			
9,900.00	7,875.00	9,578.74	7,950.00	55.55	51.39	91.24	694.85	-965.27	3,229.44	3,124.55	104.89	30.788			
10,000.00	7,875.00	9,678.73	7,950.00	57.28	53.55	91.24	694.28	-1,065.26	3,228.98	3,119.86	109.12	29.591			
10,100.00	7,875.00	9,778.73	7,950.00	59.21	55.76	91.24	693.70	-1,165.26	3,228.52	3,115.07	113.45	28.458			
10,200.00	7,875.00	9,878.73	7,950.00	61.26	58.01	91.24	693.13	-1,265.26	3,228.06	3,110.20	117.86	27.388			
10,300.00	7,875.00	9,978.73	7,950.00	63.38	60.29	91.24	692.55	-1,365.25	3,227.60	3,105.24	122.35	26.379			
10,400.00	7,875.00	10,078.73	7,950.00	65.57	62.61	91.24	691.98	-1,465.25	3,227.14	3,100.22	126.92	25.427			
10,500.00	7,875.00	10,178.73	7,950.00	67.80	64.95	91.24	691.40	-1,565.25	3,226.68	3,095.14	131.54	24.530			
10,600.00	7,875.00	10,278.73	7,950.00	70.07	67.33	91.25	690.83	-1,665.25	3,226.22	3,090.00	136.22	23.684			
10,700.00	7,875.00	10,378.73	7,950.00	72.37	69.72	91.25	690.25	-1,765.24	3,225.76	3,084.81	140.95	22.887			
10,800.00	7,875.00	10,478.73	7,950.00	74.70	72.14	91.25	689.68	-1,865.24	3,225.30	3,079.58	145.72	22.134			
10,900.00	7,875.00	10,578.73	7,950.00	77.06	74.57	91.25	689.10	-1,965.24	3,224.83	3,074.30	150.53	21.423			
11,000.00	7,875.00	10,678.72	7,950.00	79.44	77.02	91.25	688.53	-2,065.24	3,224.37	3,068.99	155.39	20.751			
11,100.00	7,875.00	10,778.72	7,950.00	81.84	79.49	91.25	687.95	-2,165.23	3,223.91	3,063.64	160.27	20.115			
11,200.00	7,875.00	10,878.72	7,950.00	84.26	81.97	91.25	687.38	-2,265.23	3,223.45	3,058.26	165.19	19.514			
11,300.00	7,875.00	10,978.72	7,950.00	86.69	84.46	91.25	686.80	-2,365.23	3,222.99	3,052.86	170.13	18.944			
11,400.00	7,875.00	11,078.72	7,950.00	89.14	86.97	91.25	686.23	-2,465.22	3,222.53	3,047.43	175.10	18.403			
11,500.00	7,875.00	11,178.72	7,950.00	91.60	89.48	91.25	685.65	-2,565.22	3,222.07	3,041.97	180.10	17.891			
11,600.00	7,875.00	11,278.72	7,950.00	94.07	92.01	91.25	685.08	-2,665.22	3,221.61	3,036.50	185.12	17.403			
11,700.00	7,875.00	11,378.72	7,950.00	96.56	94.54	91.25	684.50	-2,765.22	3,221.15	3,031.00	190.15	16.940			
11,800.00	7,875.00	11,478.72	7,950.00	99.05	97.09	91.25	683.93	-2,865.21	3,220.69	3,025.48	195.21	16.499			
11,900.00	7,875.00	11,578.71	7,950.00	101.56	99.64	91.25	683.35	-2,965.21	3,220.23	3,019.95	200.28	16.079			
12,000.00	7,875.00	11,678.71	7,950.00	104.07	102.20	91.25	682.78	-3,065.21	3,219.77	3,014.40	205.36	15.678			
12,100.00	7,875.00	11,778.71	7,950.00	106.60	104.76	91.25	682.20	-3,165.21	3,219.31	3,008.84	210.47	15.296			
12,200.00	7,875.00	11,878.71	7,950.00	109.13	107.33	91.25	681.63	-3,265.20	3,218.85	3,003.27	215.58	14.931			
12,300.00	7,875.00	11,978.71	7,950.00	111.66	109.91	91.25	681.05	-3,365.20	3,218.39	2,997.68	220.71	14.582			
12,400.00	7,875.00	12,078.71	7,950.00	114.21	112.49	91.25	680.48	-3,465.20	3,217.93	2,992.08	225.85	14.248			
12,500.00	7,875.00	12,178.71	7,950.00	116.76	115.08	91.25	679.90	-3,565.20	3,217.47	2,986.46	231.00	13.928			
12,600.00	7,875.00	12,278.71	7,950.00	119.32	117.67	91.25	679.33	-3,665.19	3,217.00	2,980.84	236.16	13.622			
12,700.00	7,875.00	12,378.71	7,950.00	121.88	120.27	91.25	678.76	-3,765.19	3,216.54	2,975.21	241.33	13.328			
12,800.00	7,875.00	12,478.71	7,950.00	124.45	122.87	91.25	678.18	-3,865.19	3,216.08	2,969.57	246.51	13.046			
12,900.00	7,875.00	12,578.70	7,950.00	127.02	125.47	91.25	677.61	-3,965.18	3,215.62	2,963.92	251.70	12.776			
13,000.00	7,875.00	12,678.70	7,950.00	129.60	128.08	91.25	677.03	-4,065.18	3,215.16	2,958.26	256.90	12.515			
13,100.00	7,875.00	12,778.70	7,950.00	132.18	130.69	91.25	676.46	-4,165.18	3,214.70	2,952.60	262.10	12.265			
13,200.00	7,875.00	12,878.70	7,950.00	134.77	133.30	91.25	675.88	-4,265.18	3,214.24	2,946.93	267.31	12.024			
13,300.00	7,875.00	12,978.70	7,950.00	137.36	135.92	91.25	675.31	-4,365.17	3,213.78	2,941.25	272.53	11.792			
13,400.00	7,875.00	13,078.70	7,950.00	139.96	138.54	91.25	674.73	-4,465.17	3,213.32	2,935.56	277.76	11.569			
13,500.00	7,875.00	13,178.70	7,950.00	142.55	141.16	91.25	674.16	-4,565.17	3,212.86	2,929.87	282.98	11.353			
13,600.00	7,875.00	13,278.70	7,950.00	145.15	143.79	91.25	673.58	-4,665.17	3,212.40	2,924.18	288.22	11.146			
13,700.00	7,875.00	13,378.70	7,950.00	147.76	146.42	91.25	673.01	-4,765.16	3,211.94	2,918.48	293.46	10.945			
13,800.00	7,875.00	13,478.69	7,950.00	150.37	149.05	91.25	672.43	-4,865.16	3,211.48	2,912.77	298.71	10.751			
13,900.00	7,875.00	13,578.69	7,950.00	152.98	151.68	91.25	671.86	-4,965.16	3,211.02	2,907.06	303.96	10.564			
14,000.00	7,875.00	13,678.69	7,950.00	155.59	154.31	91.25	671.28	-5,065.15	3,210.56	2,901.34	309.21	10.383			
14,100.00	7,875.00	13,778.69	7,950.00	158.20	156.95	91.25	670.71	-5,165.15	3,210.10	2,895.62	314.47	10.208			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
14,200.00	7,875.00	13,878.69	7,950.00	160.82	159.59	91.25	670.13	-5,265.15	3,209.63	2,889.90	319.74	10.038			
14,300.00	7,875.00	13,978.69	7,950.00	163.44	162.23	91.25	669.56	-5,365.15	3,209.17	2,884.17	325.00	9.874			
14,400.00	7,875.00	14,078.69	7,950.00	166.06	164.87	91.25	668.98	-5,465.14	3,208.71	2,878.44	330.27	9.715			
14,500.00	7,875.00	14,178.69	7,950.00	168.69	167.51	91.25	668.41	-5,565.14	3,208.25	2,872.70	335.55	9.561			
14,600.00	7,875.00	14,278.69	7,950.00	171.32	170.16	91.25	667.83	-5,665.14	3,207.79	2,866.97	340.83	9.412			
14,700.00	7,875.00	14,378.69	7,950.00	173.94	172.80	91.25	667.26	-5,765.14	3,207.33	2,861.22	346.11	9.267			
14,800.00	7,875.00	14,478.68	7,950.00	176.57	175.45	91.25	666.68	-5,865.13	3,206.87	2,855.48	351.39	9.126			
14,900.00	7,875.00	14,578.68	7,950.00	179.21	178.10	91.25	666.11	-5,965.13	3,206.41	2,849.73	356.68	8.990			
15,000.00	7,875.00	14,678.68	7,950.00	181.84	180.75	91.25	665.53	-6,065.13	3,205.95	2,843.98	361.97	8.857			
15,100.00	7,875.00	14,778.68	7,950.00	184.48	183.40	91.25	664.96	-6,165.12	3,205.49	2,838.23	367.26	8.728			
15,200.00	7,875.00	14,878.68	7,950.00	187.11	186.05	91.25	664.38	-6,265.12	3,205.03	2,832.47	372.56	8.603			
15,300.00	7,875.00	14,978.68	7,950.00	189.75	188.70	91.25	663.81	-6,365.12	3,204.57	2,826.71	377.85	8.481			
15,400.00	7,875.00	15,078.68	7,950.00	192.39	191.36	91.25	663.23	-6,465.12	3,204.11	2,820.95	383.15	8.362			
15,500.00	7,875.00	15,178.68	7,950.00	195.03	194.01	91.25	662.66	-6,565.11	3,203.65	2,815.19	388.46	8.247			
15,600.00	7,875.00	15,278.68	7,950.00	197.67	196.67	91.25	662.08	-6,665.11	3,203.19	2,809.43	393.76	8.135			
15,700.00	7,875.00	15,378.67	7,950.00	200.32	199.33	91.25	661.51	-6,765.11	3,202.73	2,803.66	399.07	8.026			
15,800.00	7,875.00	15,478.67	7,950.00	202.96	201.98	91.25	660.93	-6,865.11	3,202.27	2,797.89	404.37	7.919			
15,900.00	7,875.00	15,578.67	7,950.00	205.61	204.64	91.25	660.36	-6,965.10	3,201.80	2,792.12	409.69	7.815			
16,000.00	7,875.00	15,678.67	7,950.00	208.26	207.30	91.25	659.78	-7,065.10	3,201.34	2,786.35	415.00	7.714			
16,100.00	7,875.00	15,778.67	7,950.00	210.91	209.96	91.25	659.21	-7,165.10	3,200.88	2,780.57	420.31	7.619			
16,200.00	7,875.00	15,878.67	7,950.00	213.56	212.62	91.26	658.63	-7,265.09	3,200.42	2,774.80	425.63	7.519			
16,300.00	7,875.00	15,978.67	7,950.00	216.21	215.29	91.26	658.06	-7,365.09	3,199.96	2,769.02	430.94	7.425			
16,400.00	7,875.00	16,078.67	7,950.00	218.86	217.95	91.26	657.48	-7,465.09	3,199.50	2,763.24	436.26	7.334			
16,500.00	7,875.00	16,178.67	7,950.00	221.51	220.61	91.26	656.91	-7,565.09	3,199.04	2,757.46	441.58	7.244			
16,600.00	7,875.00	16,278.66	7,950.00	224.16	223.28	91.26	656.33	-7,665.08	3,198.58	2,751.67	446.91	7.157			
16,700.00	7,875.00	16,378.66	7,950.00	226.82	225.94	91.26	655.76	-7,765.08	3,198.12	2,745.89	452.23	7.072			
16,800.00	7,875.00	16,478.66	7,950.00	229.47	228.61	91.26	655.18	-7,865.08	3,197.66	2,740.11	457.55	6.989			
16,900.00	7,875.00	16,578.66	7,950.00	232.13	231.27	91.26	654.61	-7,965.08	3,197.20	2,734.32	462.88	6.907			
17,000.00	7,875.00	16,678.66	7,950.00	234.79	233.94	91.26	654.03	-8,065.07	3,196.74	2,728.53	468.21	6.828			
17,100.00	7,875.00	16,778.66	7,950.00	237.44	236.61	91.26	653.46	-8,165.07	3,196.28	2,722.74	473.54	6.750			
17,200.00	7,875.00	16,878.66	7,950.00	240.10	239.28	91.26	652.88	-8,265.07	3,195.82	2,716.95	478.87	6.674			
17,300.00	7,875.00	16,978.66	7,950.00	242.76	241.94	91.26	652.31	-8,365.06	3,195.36	2,711.16	484.20	6.599			
17,400.00	7,875.00	17,078.66	7,950.00	245.42	244.61	91.26	651.73	-8,465.06	3,194.90	2,705.37	489.53	6.526			
17,500.00	7,875.00	17,178.66	7,950.00	248.08	247.28	91.26	651.16	-8,565.06	3,194.43	2,699.57	494.86	6.455			
17,600.00	7,875.00	17,278.65	7,950.00	250.74	249.95	91.26	650.58	-8,665.06	3,193.97	2,693.78	500.20	6.385			
17,700.00	7,875.00	17,378.65	7,950.00	253.41	252.62	91.26	650.01	-8,765.05	3,193.51	2,687.98	505.53	6.317			
17,800.00	7,875.00	17,478.65	7,950.00	256.07	255.29	91.26	649.43	-8,865.05	3,193.05	2,682.19	510.87	6.250			
17,900.00	7,875.00	17,578.65	7,950.00	258.73	257.96	91.26	648.86	-8,965.05	3,192.59	2,676.39	516.20	6.185			
18,000.00	7,875.00	17,678.65	7,950.00	261.39	260.63	91.26	648.28	-9,065.05	3,192.13	2,670.59	521.54	6.121			
18,100.00	7,875.00	17,778.65	7,950.00	264.06	263.31	91.26	647.71	-9,165.04	3,191.67	2,664.79	526.88	6.058			
18,200.00	7,875.00	17,878.65	7,950.00	266.72	265.98	91.26	647.13	-9,265.04	3,191.21	2,658.99	532.22	5.996			
18,300.00	7,875.00	17,978.65	7,950.00	269.39	268.65	91.26	646.56	-9,365.04	3,190.75	2,653.19	537.56	5.936			
18,400.00	7,875.00	18,078.65	7,950.00	272.05	271.32	91.26	645.98	-9,465.04	3,190.29	2,647.39	542.90	5.876			
18,500.00	7,875.00	18,178.64	7,950.00	274.72	274.00	91.26	645.41	-9,565.03	3,189.83	2,641.58	548.24	5.818			
18,566.57	7,875.00	18,230.53	7,950.00	276.50	275.38	91.26	645.11	-9,616.91	3,189.56	2,638.21	551.35	5.785			
18,575.92	7,875.00	18,230.53	7,950.00	276.74	275.38	91.26	645.11	-9,616.91	3,189.57	2,638.01	551.56	5.783 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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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	4.50	4.50	0.00	0.01	-0.11	149.71	-0.28	149.71					
100.00	100.00	104.50	104.50	0.13	0.15	-0.11	149.71	-0.28	149.71	149.43	0.28	525.340		
200.00	200.00	204.50	204.50	0.49	0.51	-0.11	149.71	-0.28	149.71	148.71	1.00	149.426		
250.00	250.00	254.53	254.53	0.67	0.69	-0.11	149.71	-0.28	149.71	148.35	1.36	110.076		
250.70	250.70	255.23	255.23	0.67	0.69	-160.13	149.71	-0.28	149.71	148.35	1.36	109.686	CC, ES	
300.00	300.00	304.85	304.85	0.84	0.86	-159.98	149.65	0.24	150.06	148.35	1.71	87.886		
400.00	399.93	405.39	405.32	1.19	1.22	-159.04	149.20	3.90	152.91	150.51	2.40	63.708		
500.00	499.68	505.62	505.28	1.54	1.58	-157.32	148.31	11.03	158.73	155.61	3.12	50.897		
600.00	599.13	605.34	604.43	1.92	1.96	-154.99	147.00	21.56	167.68	163.82	3.86	43.441		
700.00	698.15	704.39	702.72	2.32	2.35	-152.83	145.50	33.67	179.95	175.33	4.62	38.922		
800.00	796.63	803.08	800.67	2.74	2.74	-151.40	144.00	45.75	195.45	190.05	5.40	36.188		
900.00	894.44	901.31	898.15	3.21	3.14	-150.58	142.51	57.76	214.03	207.83	6.19	34.569		
1,000.00	991.46	1,001.05	995.04	3.71	3.54	-150.27	141.03	69.70	235.59	228.59	7.00	33.648		
1,100.00	1,087.58	1,104.11	1,091.24	4.25	3.97	-150.33	139.56	81.56	260.11	252.27	7.84	33.184		
1,200.00	1,182.68	1,208.00	1,186.61	4.83	4.39	-150.66	138.10	93.31	287.58	278.89	8.69	33.093		
1,288.87	1,266.25	1,276.62	1,270.59	5.39	4.67	-151.11	136.81	103.66	314.47	305.11	9.36	33.602		
1,300.00	1,276.66	1,287.17	1,281.06	5.46	4.72	-151.20	136.65	104.95	317.98	308.52	9.45	33.635		
1,400.00	1,370.15	1,381.94	1,375.11	6.12	5.10	-151.99	135.21	116.55	349.59	339.32	10.27	34.026		
1,500.00	1,463.65	1,476.71	1,469.16	6.80	5.49	-152.65	133.78	128.14	381.25	370.15	11.10	34.351		
1,600.00	1,557.15	1,571.48	1,563.21	7.48	5.88	-153.21	132.34	139.73	412.95	401.02	11.93	34.624		
1,700.00	1,650.64	1,666.26	1,657.26	8.16	6.28	-153.68	130.90	151.32	444.68	431.92	12.76	34.857		
1,800.00	1,744.14	1,761.03	1,751.31	8.85	6.67	-154.10	129.46	162.91	476.43	462.84	13.59	35.058		
1,900.00	1,837.64	1,855.80	1,845.36	9.55	7.06	-154.46	128.02	174.50	508.20	493.78	14.42	35.233		
2,000.00	1,931.13	1,950.57	1,939.41	10.24	7.45	-154.78	126.58	186.10	539.99	524.73	15.26	35.387		
2,100.00	2,024.63	2,045.35	2,033.46	10.94	7.84	-155.06	125.14	197.69	571.79	555.70	16.10	35.524		
2,200.00	2,118.12	2,140.12	2,127.51	11.64	8.23	-155.32	123.70	209.28	603.61	586.67	16.93	35.645		
2,300.00	2,211.62	2,234.89	2,221.56	12.35	8.62	-155.55	122.27	220.87	635.43	617.66	17.77	35.754		
2,400.00	2,305.12	2,329.66	2,315.61	13.05	9.02	-155.75	120.83	232.46	667.26	648.65	18.61	35.852		
2,500.00	2,398.61	2,424.43	2,409.66	13.75	9.41	-155.94	119.39	244.05	699.10	679.65	19.45	35.941		
2,600.00	2,492.11	2,519.21	2,503.71	14.46	9.80	-156.11	117.95	255.64	730.95	710.65	20.29	36.022		
2,700.00	2,585.61	2,613.98	2,597.75	15.17	10.19	-156.27	116.51	267.24	762.80	741.66	21.13	36.096		
2,800.00	2,679.10	2,708.75	2,691.80	15.87	10.59	-156.42	115.07	278.83	794.65	772.68	21.97	36.164		
2,900.00	2,772.60	2,803.52	2,785.85	16.58	10.98	-156.55	113.63	290.42	826.51	803.69	22.82	36.227		
3,000.00	2,866.10	2,901.70	2,879.90	17.29	11.38	-156.67	112.20	302.01	858.37	834.70	23.67	36.263		
3,100.00	2,959.59	3,006.93	2,973.95	18.00	11.82	-156.79	110.76	313.60	890.24	865.68	24.56	36.253		
3,200.00	3,053.09	3,087.84	3,068.00	18.71	12.15	-156.90	109.32	325.19	922.11	896.77	25.34	36.387		
3,300.00	3,146.59	3,182.61	3,162.05	19.42	12.55	-157.00	107.88	336.79	953.98	927.80	26.18	36.433		
3,400.00	3,240.08	3,277.39	3,256.10	20.13	12.94	-157.09	106.44	348.38	985.85	958.83	27.03	36.476		
3,500.00	3,333.58	3,372.16	3,350.15	20.84	13.33	-157.18	105.00	359.97	1,017.73	989.86	27.87	36.516		
3,600.00	3,427.08	3,466.93	3,444.20	21.55	13.73	-157.26	103.56	371.56	1,049.61	1,020.89	28.71	36.554		
3,700.00	3,520.57	3,561.70	3,538.25	22.26	14.12	-157.34	102.12	383.15	1,081.49	1,051.93	29.56	36.589		
3,800.00	3,614.07	3,656.47	3,632.30	22.97	14.51	-157.41	100.69	394.74	1,113.37	1,082.97	30.40	36.622		
3,900.00	3,707.57	3,751.25	3,726.35	23.69	14.90	-157.48	99.25	406.34	1,145.25	1,114.01	31.25	36.653		
4,000.00	3,801.06	3,846.02	3,820.40	24.40	15.30	-157.54	97.81	417.93	1,177.14	1,145.05	32.09	36.683		
4,100.00	3,894.56	3,940.79	3,914.45	25.11	15.69	-157.60	96.37	429.52	1,209.03	1,176.09	32.93	36.711		
4,200.00	3,988.05	4,035.56	4,008.50	25.82	16.08	-157.66	94.93	441.11	1,240.91	1,207.13	33.78	36.737		
4,300.00	4,081.55	4,130.34	4,102.55	26.53	16.47	-157.72	93.49	452.70	1,272.80	1,238.18	34.62	36.762		
4,400.00	4,175.05	4,225.11	4,196.60	27.25	16.87	-157.77	92.05	464.29	1,304.69	1,269.22	35.47	36.785		
4,500.00	4,268.54	4,319.88	4,290.65	27.96	17.26	-157.82	90.62	475.88	1,336.58	1,300.27	36.31	36.808		
4,600.00	4,362.04	4,414.65	4,384.70	28.67	17.65	-157.87	89.18	487.48	1,368.47	1,331.32	37.16	36.829		
4,700.00	4,455.54	4,509.43	4,478.75	29.38	18.05	-157.92	87.74	499.07	1,400.37	1,362.36	38.00	36.849		
4,800.00	4,549.03	4,604.20	4,572.80	30.10	18.44	-157.96	86.30	510.66	1,432.26	1,393.41	38.85	36.868		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
4,900.00	4,642.53	4,701.03	4,666.85	30.81	18.84	-158.00	84.86	522.25	1,464.15	1,424.45	39.70	36.878			
5,000.00	4,736.03	4,806.26	4,760.90	31.52	19.28	-158.04	83.42	533.84	1,496.05	1,455.46	40.59	36.857			
5,100.00	4,829.52	4,888.51	4,854.95	32.24	19.62	-158.08	81.98	545.43	1,527.94	1,486.56	41.38	36.920			
5,200.00	4,923.02	4,983.29	4,949.00	32.95	20.01	-158.12	80.54	557.03	1,559.84	1,517.61	42.23	36.936			
5,300.00	5,016.52	5,078.06	5,043.05	33.66	20.40	-158.15	79.11	568.62	1,591.73	1,548.66	43.08	36.951			
5,400.00	5,110.01	5,172.83	5,137.10	34.38	20.80	-158.19	77.67	580.21	1,623.63	1,579.71	43.92	36.966			
5,500.00	5,203.51	5,267.60	5,231.15	35.09	21.19	-158.22	76.23	591.80	1,655.53	1,610.76	44.77	36.980			
5,600.00	5,297.01	5,362.38	5,325.20	35.80	21.58	-158.25	74.79	603.39	1,687.42	1,641.81	45.61	36.993			
5,700.00	5,390.50	5,457.15	5,419.25	36.52	21.97	-158.28	73.35	614.98	1,719.32	1,672.86	46.46	37.006			
5,800.00	5,484.00	5,551.92	5,513.30	37.23	22.37	-158.31	71.91	626.57	1,751.22	1,703.91	47.31	37.018			
5,900.00	5,577.50	5,646.69	5,607.35	37.94	22.76	-158.34	70.47	638.17	1,783.12	1,734.97	48.15	37.029			
6,000.00	5,670.99	5,741.47	5,701.40	38.66	23.15	-158.36	69.03	649.76	1,815.02	1,766.02	49.00	37.041			
6,100.00	5,764.49	5,836.24	5,795.45	39.37	23.55	-158.39	67.60	661.35	1,846.92	1,797.07	49.85	37.051			
6,200.00	5,857.98	5,931.01	5,889.50	40.08	23.94	-158.42	66.16	672.94	1,878.82	1,828.12	50.69	37.061			
6,300.00	5,951.48	6,025.78	5,983.55	40.80	24.33	-158.44	64.72	684.53	1,910.72	1,859.18	51.54	37.071			
6,400.00	6,044.98	6,120.55	6,077.60	41.51	24.73	-158.46	63.28	696.12	1,942.62	1,890.23	52.39	37.081			
6,500.00	6,138.47	6,215.33	6,171.65	42.22	25.12	-158.49	61.84	707.72	1,974.52	1,921.28	53.24	37.090			
6,600.00	6,231.97	6,310.10	6,265.69	42.94	25.51	-158.51	60.40	719.31	2,006.42	1,952.34	54.08	37.099			
6,700.00	6,325.47	6,404.87	6,359.74	43.65	25.90	-158.53	58.96	730.90	2,038.32	1,983.39	54.93	37.107			
6,800.00	6,418.96	6,500.36	6,453.79	44.37	26.30	-158.55	57.53	742.49	2,070.22	2,014.44	55.78	37.113			
6,900.00	6,512.46	6,605.58	6,547.84	45.08	26.74	-158.57	56.09	754.08	2,102.13	2,045.45	56.67	37.093			
7,000.00	6,605.96	6,689.19	6,641.89	45.79	27.08	-158.59	54.65	765.67	2,134.03	2,076.55	57.47	37.130			
7,100.00	6,699.45	6,783.96	6,735.94	46.51	27.48	-158.61	53.21	777.27	2,165.93	2,107.61	58.32	37.138			
7,200.00	6,792.95	6,878.73	6,829.99	47.22	27.87	-158.63	51.77	788.86	2,197.83	2,138.66	59.17	37.144			
7,300.00	6,886.45	6,973.51	6,924.04	47.94	28.26	-158.65	50.33	800.45	2,229.74	2,169.72	60.02	37.151			
7,400.00	6,979.94	7,068.28	7,018.09	48.65	28.66	-158.66	48.89	812.04	2,261.64	2,200.77	60.87	37.157			
7,500.00	7,073.44	7,163.05	7,112.14	49.36	29.05	-158.68	47.45	823.63	2,293.54	2,231.83	61.71	37.164			
7,600.00	7,166.94	7,257.82	7,206.19	50.08	29.44	-158.70	46.02	835.22	2,325.44	2,262.88	62.56	37.170			
7,700.00	7,260.43	7,354.68	7,302.67	50.79	29.80	-158.83	44.51	847.22	2,357.32	2,293.96	63.36	37.206			
7,710.39	7,270.15	7,364.70	7,312.68	50.87	29.83	-158.86	44.35	842.62	2,360.62	2,297.20	63.42	37.219			
7,750.00	7,307.31	7,402.61	7,350.54	51.14	29.93	-170.76	43.74	840.67	2,373.27	2,309.61	63.66	37.279			
7,800.00	7,354.38	7,450.02	7,397.55	51.46	30.03	173.46	42.95	834.72	2,389.30	2,325.39	63.91	37.386			
7,850.00	7,401.31	7,497.01	7,443.51	51.75	30.11	158.36	42.16	825.01	2,405.27	2,341.17	64.10	37.522			
7,900.00	7,447.74	7,543.67	7,488.19	52.00	30.18	145.20	41.37	811.67	2,421.06	2,356.81	64.25	37.681			
7,950.00	7,493.32	7,590.07	7,531.41	52.22	30.23	134.37	40.58	794.84	2,436.55	2,372.19	64.36	37.856			
8,000.00	7,537.69	7,636.28	7,572.96	52.41	30.27	125.64	39.80	774.67	2,451.62	2,387.17	64.44	38.043			
8,050.00	7,580.52	7,682.37	7,612.65	52.57	30.30	118.62	39.03	751.27	2,466.15	2,401.65	64.50	38.234			
8,100.00	7,621.49	7,728.38	7,650.27	52.70	30.32	112.91	38.27	724.81	2,480.02	2,415.48	64.54	38.425			
8,150.00	7,660.28	7,774.38	7,685.64	52.81	30.35	108.23	37.54	695.42	2,493.14	2,428.56	64.58	38.607			
8,200.00	7,696.59	7,820.39	7,718.54	52.89	30.37	104.35	36.83	663.28	2,505.40	2,440.78	64.62	38.773			
8,250.00	7,730.16	7,866.44	7,748.78	52.95	30.41	101.11	36.14	628.58	2,516.70	2,452.03	64.67	38.915			
8,300.00	7,760.72	7,912.55	7,776.17	52.98	30.47	98.42	35.49	591.51	2,526.96	2,462.21	64.75	39.024			
8,350.00	7,788.05	7,958.73	7,800.53	53.00	30.54	96.17	34.88	552.30	2,536.11	2,471.23	64.88	39.091			
8,400.00	7,811.93	8,004.97	7,821.68	53.00	30.64	94.33	34.30	511.19	2,544.07	2,479.02	65.05	39.109			
8,450.00	7,832.18	8,051.28	7,839.47	52.99	30.77	92.84	33.77	468.45	2,550.78	2,485.50	65.28	39.072			
8,500.00	7,848.65	8,097.64	7,853.76	52.95	30.93	91.68	33.29	424.37	2,556.20	2,490.61	65.59	38.972			
8,550.00	7,861.21	8,144.02	7,864.45	52.91	31.13	90.82	32.86	379.25	2,560.28	2,494.31	65.97	38.809			
8,600.00	7,869.78	8,190.41	7,871.46	52.85	31.36	90.24	32.48	333.41	2,562.99	2,496.56	66.43	38.584			
8,650.00	7,874.27	8,236.77	7,874.74	52.78	31.62	89.94	32.17	287.18	2,564.30	2,497.35	66.95	38.299			
8,679.79	7,875.00	8,265.18	7,875.00	52.74	31.80	89.90	32.00	258.77	2,564.42	2,497.12	67.30	38.102			
8,700.00	7,875.00	8,285.40	7,875.00	52.70	31.93	89.90	31.88	238.56	2,564.33	2,496.77	67.56	37.954			
8,800.00	7,875.00	8,385.40	7,875.00	52.56	32.74	89.90	31.31	138.56	2,563.87	2,494.77	69.10	37.104			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
8,900.00	7,875.00	8,485.39	7,875.00	52.44	33.73	89.90	30.73	38.56	2,563.41	2,492.41	71.00	36.103			
9,000.00	7,875.00	8,585.39	7,875.00	52.34	34.91	89.90	30.16	-61.44	2,562.95	2,489.70	73.25	34.987			
9,100.00	7,875.00	8,685.39	7,875.00	52.27	36.25	89.90	29.58	-161.43	2,562.49	2,486.67	75.82	33.797			
9,200.00	7,875.00	8,785.39	7,875.00	52.22	37.74	89.90	29.01	-261.43	2,562.03	2,483.35	78.67	32.566			
9,300.00	7,875.00	8,885.39	7,875.00	52.20	39.36	89.90	28.43	-361.43	2,561.57	2,479.79	81.78	31.322			
9,400.00	7,875.00	8,985.39	7,875.00	52.24	41.09	89.90	27.86	-461.42	2,561.11	2,475.99	85.11	30.090			
9,500.00	7,875.00	9,085.39	7,875.00	52.35	42.92	89.90	27.28	-561.42	2,560.65	2,471.99	88.65	28.885			
9,600.00	7,875.00	9,185.39	7,875.00	52.62	44.83	89.90	26.71	-661.42	2,560.19	2,467.82	92.37	27.718			
9,700.00	7,875.00	9,285.39	7,875.00	53.16	46.83	89.90	26.13	-761.42	2,559.72	2,463.49	96.24	26.598			
9,800.00	7,875.00	9,385.38	7,875.00	54.13	48.89	89.90	25.56	-861.41	2,559.26	2,459.02	100.25	25.529			
9,900.00	7,875.00	9,485.38	7,875.00	55.55	51.01	89.90	24.98	-961.41	2,558.80	2,454.42	104.38	24.513			
10,000.00	7,875.00	9,585.38	7,875.00	57.28	53.18	89.90	24.41	-1,061.41	2,558.34	2,449.72	108.63	23.552			
10,100.00	7,875.00	9,685.38	7,875.00	59.21	55.39	89.90	23.83	-1,161.41	2,557.88	2,444.91	112.97	22.642			
10,200.00	7,875.00	9,785.38	7,875.00	61.26	57.65	89.90	23.26	-1,261.40	2,557.42	2,440.03	117.40	21.785			
10,300.00	7,875.00	9,885.38	7,875.00	63.38	59.94	89.90	22.68	-1,361.40	2,556.96	2,435.06	121.90	20.976			
10,400.00	7,875.00	9,985.38	7,875.00	65.57	62.27	89.90	22.11	-1,461.40	2,556.50	2,430.03	126.47	20.214			
10,500.00	7,875.00	10,085.38	7,875.00	67.80	64.62	89.90	21.53	-1,561.39	2,556.04	2,424.93	131.11	19.496			
10,600.00	7,875.00	10,185.38	7,875.00	70.07	67.00	89.90	20.96	-1,661.39	2,555.58	2,419.78	135.80	18.819			
10,700.00	7,875.00	10,285.37	7,875.00	72.37	69.40	89.90	20.39	-1,761.39	2,555.12	2,414.58	140.54	18.181			
10,800.00	7,875.00	10,385.37	7,875.00	74.70	71.82	89.90	19.81	-1,861.39	2,554.66	2,409.34	145.32	17.580			
10,900.00	7,875.00	10,485.37	7,875.00	77.06	74.27	89.90	19.24	-1,961.38	2,554.20	2,404.05	150.14	17.012			
11,000.00	7,875.00	10,585.37	7,875.00	79.44	76.72	89.90	18.66	-2,061.38	2,553.74	2,398.73	155.01	16.475			
11,100.00	7,875.00	10,685.37	7,875.00	81.84	79.20	89.90	18.09	-2,161.38	2,553.28	2,393.38	159.90	15.968			
11,200.00	7,875.00	10,785.37	7,875.00	84.26	81.68	89.90	17.51	-2,261.38	2,552.82	2,387.99	164.83	15.488			
11,300.00	7,875.00	10,885.37	7,875.00	86.69	84.18	89.90	16.94	-2,361.37	2,552.35	2,382.58	169.78	15.033			
11,400.00	7,875.00	10,985.37	7,875.00	89.14	86.69	89.90	16.36	-2,461.37	2,551.89	2,377.14	174.76	14.603			
11,500.00	7,875.00	11,085.37	7,875.00	91.60	89.21	89.90	15.79	-2,561.37	2,551.43	2,371.68	179.76	14.194			
11,600.00	7,875.00	11,185.37	7,875.00	94.07	91.74	89.90	15.21	-2,661.37	2,550.97	2,366.19	184.78	13.805			
11,700.00	7,875.00	11,285.36	7,875.00	96.56	94.28	89.90	14.64	-2,761.36	2,550.51	2,360.69	189.82	13.436			
11,800.00	7,875.00	11,385.36	7,875.00	99.05	96.83	89.90	14.06	-2,861.36	2,550.05	2,355.17	194.89	13.085			
11,900.00	7,875.00	11,485.36	7,875.00	101.56	99.39	89.90	13.49	-2,961.36	2,549.59	2,349.63	199.96	12.750			
12,000.00	7,875.00	11,585.36	7,875.00	104.07	101.95	89.90	12.91	-3,061.35	2,549.13	2,344.07	205.06	12.431			
12,100.00	7,875.00	11,685.36	7,875.00	106.60	104.52	89.90	12.34	-3,161.35	2,548.67	2,338.51	210.16	12.127			
12,200.00	7,875.00	11,785.36	7,875.00	109.13	107.09	89.90	11.76	-3,261.35	2,548.21	2,332.92	215.29	11.836			
12,300.00	7,875.00	11,885.36	7,875.00	111.66	109.67	89.90	11.19	-3,361.35	2,547.75	2,327.33	220.42	11.559			
12,400.00	7,875.00	11,985.36	7,875.00	114.21	112.26	89.90	10.61	-3,461.34	2,547.29	2,321.72	225.57	11.293			
12,500.00	7,875.00	12,085.36	7,875.00	116.76	114.85	89.90	10.04	-3,561.34	2,546.83	2,316.11	230.72	11.039			
12,600.00	7,875.00	12,185.35	7,875.00	119.32	117.44	89.90	9.46	-3,661.34	2,546.37	2,310.48	235.89	10.795			
12,700.00	7,875.00	12,285.35	7,875.00	121.88	120.04	89.90	8.89	-3,761.34	2,545.91	2,304.84	241.06	10.561			
12,800.00	7,875.00	12,385.35	7,875.00	124.45	122.65	89.90	8.31	-3,861.33	2,545.45	2,299.20	246.25	10.337			
12,900.00	7,875.00	12,485.35	7,875.00	127.02	125.25	89.90	7.74	-3,961.33	2,544.99	2,293.54	251.44	10.122			
13,000.00	7,875.00	12,585.35	7,875.00	129.60	127.86	89.90	7.16	-4,061.33	2,544.52	2,287.88	256.64	9.915			
13,100.00	7,875.00	12,685.35	7,875.00	132.18	130.48	89.90	6.59	-4,161.32	2,544.06	2,282.21	261.85	9.716			
13,200.00	7,875.00	12,785.35	7,875.00	134.77	133.10	89.90	6.01	-4,261.32	2,543.60	2,276.54	267.07	9.524			
13,300.00	7,875.00	12,885.35	7,875.00	137.36	135.72	89.90	5.44	-4,361.32	2,543.14	2,270.85	272.29	9.340			
13,400.00	7,875.00	12,985.35	7,875.00	139.96	138.34	89.90	4.86	-4,461.32	2,542.68	2,265.17	277.52	9.162			
13,500.00	7,875.00	13,085.35	7,875.00	142.55	140.96	89.90	4.29	-4,561.31	2,542.22	2,259.47	282.75	8.991			
13,600.00	7,875.00	13,185.34	7,875.00	145.15	143.59	89.90	3.72	-4,661.31	2,541.76	2,253.77	287.99	8.826			
13,700.00	7,875.00	13,285.34	7,875.00	147.76	146.22	89.90	3.14	-4,761.31	2,541.30	2,248.07	293.23	8.666			
13,800.00	7,875.00	13,385.34	7,875.00	150.37	148.85	89.90	2.57	-4,861.31	2,540.84	2,242.36	298.48	8.512			
13,900.00	7,875.00	13,485.34	7,875.00	152.98	151.49	89.90	1.99	-4,961.30	2,540.38	2,236.64	303.74	8.364			
14,000.00	7,875.00	13,585.34	7,875.00	155.59	154.12	89.90	1.42	-5,061.30	2,539.92	2,230.92	309.00	8.220			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
14,100.00	7,875.00	13,685.34	7,875.00	158.20	156.76	89.90	0.84	-5,161.30	2,539.46	2,225.20	314.26	8.081			
14,200.00	7,875.00	13,785.34	7,875.00	160.82	159.40	89.90	0.27	-5,261.29	2,539.00	2,219.47	319.53	7.946			
14,300.00	7,875.00	13,885.34	7,875.00	163.44	162.04	89.90	-0.31	-5,361.29	2,538.54	2,213.74	324.80	7.816			
14,400.00	7,875.00	13,985.34	7,875.00	166.06	164.68	89.90	-0.88	-5,461.29	2,538.08	2,208.00	330.07	7.689			
14,500.00	7,875.00	14,085.33	7,875.00	168.69	167.33	89.90	-1.46	-5,561.29	2,537.62	2,202.27	335.35	7.567			
14,600.00	7,875.00	14,185.33	7,875.00	171.32	169.98	89.90	-2.03	-5,661.28	2,537.16	2,196.52	340.63	7.448			
14,700.00	7,875.00	14,285.33	7,875.00	173.94	172.62	89.90	-2.61	-5,761.28	2,536.69	2,190.78	345.92	7.333			
14,800.00	7,875.00	14,385.33	7,875.00	176.57	175.27	89.90	-3.18	-5,861.28	2,536.23	2,185.03	351.20	7.222			
14,900.00	7,875.00	14,485.33	7,875.00	179.21	177.92	89.90	-3.76	-5,961.28	2,535.77	2,179.28	356.49	7.113			
15,000.00	7,875.00	14,585.33	7,875.00	181.84	180.57	89.90	-4.33	-6,061.27	2,535.31	2,173.53	361.79	7.008			
15,100.00	7,875.00	14,685.33	7,875.00	184.48	183.23	89.90	-4.91	-6,161.27	2,534.85	2,167.77	367.08	6.905			
15,200.00	7,875.00	14,785.33	7,875.00	187.11	185.88	89.90	-5.48	-6,261.27	2,534.39	2,162.01	372.38	6.806			
15,300.00	7,875.00	14,885.33	7,875.00	189.75	188.53	89.90	-6.06	-6,361.26	2,533.93	2,156.25	377.68	6.709			
15,400.00	7,875.00	14,985.33	7,875.00	192.39	191.19	89.90	-6.63	-6,461.26	2,533.47	2,150.49	382.98	6.615			
15,500.00	7,875.00	15,085.32	7,875.00	195.03	193.85	89.90	-7.21	-6,561.26	2,533.01	2,144.72	388.29	6.524			
15,600.00	7,875.00	15,185.32	7,875.00	197.67	196.50	89.90	-7.78	-6,661.26	2,532.55	2,138.95	393.60	6.434			
15,700.00	7,875.00	15,285.32	7,875.00	200.32	199.16	89.90	-8.36	-6,761.25	2,532.09	2,133.18	398.90	6.348			
15,800.00	7,875.00	15,385.32	7,875.00	202.96	201.82	89.90	-8.93	-6,861.25	2,531.63	2,127.41	404.22	6.263			
15,900.00	7,875.00	15,485.32	7,875.00	205.61	204.48	89.90	-9.51	-6,961.25	2,531.17	2,121.64	409.53	6.181			
16,000.00	7,875.00	15,585.32	7,875.00	208.26	207.14	89.90	-10.08	-7,061.25	2,530.71	2,115.86	414.84	6.100			
16,100.00	7,875.00	15,685.32	7,875.00	210.91	209.80	89.90	-10.66	-7,161.24	2,530.25	2,110.09	420.16	6.022			
16,200.00	7,875.00	15,785.32	7,875.00	213.56	212.47	89.90	-11.23	-7,261.24	2,529.79	2,104.31	425.48	5.946			
16,300.00	7,875.00	15,885.32	7,875.00	216.21	215.13	89.90	-11.80	-7,361.24	2,529.32	2,098.53	430.80	5.871			
16,400.00	7,875.00	15,985.31	7,875.00	218.86	217.79	89.90	-12.38	-7,461.23	2,528.86	2,092.74	436.12	5.799			
16,500.00	7,875.00	16,085.31	7,875.00	221.51	220.46	89.90	-12.95	-7,561.23	2,528.40	2,086.96	441.44	5.728			
16,600.00	7,875.00	16,185.31	7,875.00	224.16	223.12	89.90	-13.53	-7,661.23	2,527.94	2,081.18	446.77	5.658			
16,700.00	7,875.00	16,285.31	7,875.00	226.82	225.79	89.90	-14.10	-7,761.23	2,527.48	2,075.39	452.09	5.591			
16,800.00	7,875.00	16,385.31	7,875.00	229.47	228.46	89.90	-14.68	-7,861.22	2,527.02	2,069.60	457.42	5.525			
16,900.00	7,875.00	16,485.31	7,875.00	232.13	231.12	89.90	-15.25	-7,961.22	2,526.56	2,063.81	462.75	5.460			
17,000.00	7,875.00	16,585.31	7,875.00	234.79	233.79	89.90	-15.83	-8,061.22	2,526.10	2,058.02	468.08	5.397			
17,100.00	7,875.00	16,685.31	7,875.00	237.44	236.46	89.90	-16.40	-8,161.22	2,525.64	2,052.23	473.41	5.335			
17,200.00	7,875.00	16,785.31	7,875.00	240.10	239.13	89.90	-16.98	-8,261.21	2,525.18	2,046.44	478.74	5.275			
17,300.00	7,875.00	16,885.31	7,875.00	242.76	241.80	89.90	-17.55	-8,361.21	2,524.72	2,040.64	484.08	5.216			
17,400.00	7,875.00	16,985.30	7,875.00	245.42	244.47	89.90	-18.13	-8,461.21	2,524.26	2,034.85	489.41	5.158			
17,500.00	7,875.00	17,085.30	7,875.00	248.08	247.14	89.90	-18.70	-8,561.21	2,523.80	2,029.05	494.75	5.101			
17,600.00	7,875.00	17,185.30	7,875.00	250.74	249.81	89.90	-19.28	-8,661.20	2,523.34	2,023.26	500.08	5.046			
17,700.00	7,875.00	17,285.30	7,875.00	253.41	252.48	89.90	-19.85	-8,761.20	2,522.88	2,017.46	505.42	4.992			
17,800.00	7,875.00	17,385.30	7,875.00	256.07	255.15	89.90	-20.43	-8,861.20	2,522.42	2,011.66	510.76	4.939			
17,900.00	7,875.00	17,485.30	7,875.00	258.73	257.82	89.90	-21.00	-8,961.19	2,521.96	2,005.86	516.10	4.887			
18,000.00	7,875.00	17,585.30	7,875.00	261.39	260.49	89.90	-21.58	-9,061.19	2,521.49	2,000.06	521.44	4.836			
18,100.00	7,875.00	17,685.30	7,875.00	264.06	263.17	89.90	-22.15	-9,161.19	2,521.03	1,994.26	526.78	4.786			
18,200.00	7,875.00	17,785.30	7,875.00	266.72	265.84	89.90	-22.73	-9,261.19	2,520.57	1,988.45	532.12	4.737			
18,300.00	7,875.00	17,885.29	7,875.00	269.39	268.51	89.90	-23.30	-9,361.18	2,520.11	1,982.65	537.46	4.689			
18,400.00	7,875.00	17,985.29	7,875.00	272.05	271.19	89.90	-23.88	-9,461.18	2,519.65	1,976.85	542.81	4.642			
18,500.00	7,875.00	18,085.29	7,875.00	274.72	273.86	89.90	-24.45	-9,561.18	2,519.19	1,971.04	548.15	4.596			
18,568.40	7,875.00	18,142.12	7,875.00	276.54	275.38	89.90	-24.78	-9,618.01	2,518.90	1,967.48	551.42	4.568			
18,575.92	7,875.00	18,142.12	7,875.00	276.74	275.38	89.90	-24.78	-9,618.01	2,518.91	1,967.35	551.56	4.567 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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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	0.10	0.10	0.00	0.00	0.01	99.81	0.00	99.81						
100.00	100.00	100.10	100.10	0.13	0.13	0.01	99.81	0.00	99.81	99.54	0.27	370.746			
200.00	200.00	200.10	200.10	0.49	0.49	0.01	99.81	0.00	99.81	98.82	0.99	101.211			
250.00	250.00	250.10	250.10	0.67	0.67	0.00	99.81	0.00	99.81	98.46	1.34	74.229			
250.21	250.21	250.32	250.32	0.67	0.67	0.00	99.81	0.00	99.81	98.46	1.35	74.147	CC		
300.00	300.00	301.21	301.21	0.84	0.85	-159.90	99.52	0.36	99.94	98.25	1.69	59.047	ES		
400.00	399.93	403.41	403.33	1.19	1.20	-158.97	97.24	3.21	101.01	98.62	2.38	42.384			
500.00	499.68	505.51	505.17	1.54	1.57	-157.17	92.70	8.89	103.21	100.11	3.10	33.325			
600.00	599.13	607.47	606.54	1.92	1.96	-154.62	85.90	17.39	106.70	102.86	3.84	27.818			
700.00	698.15	708.98	707.02	2.32	2.36	-151.50	76.91	28.63	111.64	107.04	4.60	24.252			
800.00	796.63	808.56	805.40	2.74	2.78	-148.95	67.25	40.70	119.22	113.82	5.40	22.084			
900.00	894.44	907.94	903.57	3.21	3.21	-147.51	57.61	52.75	129.92	123.70	6.22	20.904			
1,000.00	991.46	1,007.00	1,001.43	3.71	3.63	-147.02	48.01	64.76	143.57	136.53	7.05	20.374			
1,100.00	1,087.58	1,105.61	1,098.84	4.25	4.06	-147.24	38.44	76.71	160.13	152.24	7.89	20.296			
1,200.00	1,182.68	1,203.65	1,195.70	4.83	4.49	-147.96	28.94	88.60	179.59	170.85	8.74	20.551			
1,288.87	1,266.25	1,309.79	1,281.21	5.39	4.96	-148.88	20.54	99.09	199.38	189.80	9.58	20.815			
1,300.00	1,276.66	1,301.01	1,291.88	5.46	4.92	-149.03	19.49	100.40	202.00	192.41	9.59	21.057			
1,400.00	1,370.15	1,401.92	1,387.77	6.12	5.37	-150.23	10.08	112.17	225.65	215.20	10.46	21.582			
1,500.00	1,463.65	1,504.86	1,483.66	6.80	5.82	-151.20	0.67	123.94	249.38	238.05	11.33	22.010			
1,600.00	1,557.15	1,607.79	1,579.55	7.48	6.28	-152.00	-8.74	135.71	273.16	260.96	12.21	22.378			
1,700.00	1,650.64	1,689.28	1,675.43	8.16	6.64	-152.68	-18.16	147.47	296.99	284.00	13.00	22.854			
1,800.00	1,744.14	1,786.34	1,771.32	8.85	7.07	-153.25	-27.57	159.24	320.85	307.00	13.85	23.164			
1,900.00	1,837.64	1,883.41	1,867.21	9.55	7.50	-153.75	-36.98	171.01	344.73	330.03	14.71	23.439			
2,000.00	1,931.13	1,980.47	1,963.10	10.24	7.93	-154.18	-46.40	182.78	368.64	353.08	15.57	23.682			
2,100.00	2,024.63	2,077.54	2,058.99	10.94	8.36	-154.55	-55.81	194.54	392.56	376.14	16.43	23.900			
2,200.00	2,118.12	2,174.60	2,154.88	11.64	8.80	-154.89	-65.22	206.31	416.50	399.22	17.28	24.096			
2,300.00	2,211.62	2,271.67	2,250.77	12.35	9.23	-155.19	-74.64	218.08	440.45	422.31	18.15	24.274			
2,400.00	2,305.12	2,368.73	2,346.65	13.05	9.66	-155.46	-84.05	229.85	464.41	445.41	19.01	24.434			
2,500.00	2,398.61	2,465.80	2,442.54	13.75	10.09	-155.70	-93.46	241.61	488.38	468.51	19.87	24.581			
2,600.00	2,492.11	2,562.87	2,538.43	14.46	10.53	-155.92	-102.87	253.38	512.36	491.63	20.73	24.716			
2,700.00	2,585.61	2,659.93	2,634.32	15.17	10.96	-156.12	-112.29	265.15	536.34	514.75	21.59	24.839			
2,800.00	2,679.10	2,757.00	2,730.21	15.87	11.39	-156.30	-121.70	276.91	560.33	537.87	22.46	24.953			
2,900.00	2,772.60	2,854.06	2,826.10	16.58	11.83	-156.47	-131.11	288.68	584.32	561.00	23.32	25.058			
3,000.00	2,866.10	2,951.13	2,921.99	17.29	12.26	-156.62	-140.53	300.45	608.32	584.14	24.18	25.156			
3,100.00	2,959.59	3,048.19	3,017.87	18.00	12.69	-156.76	-149.94	312.22	632.32	607.27	25.05	25.247			
3,200.00	3,053.09	3,145.26	3,113.76	18.71	13.13	-156.89	-159.35	323.98	656.32	630.41	25.91	25.331			
3,300.00	3,146.59	3,242.32	3,209.65	19.42	13.56	-157.02	-168.77	335.75	680.33	653.56	26.77	25.410			
3,400.00	3,240.08	3,339.39	3,305.54	20.13	14.00	-157.13	-178.18	347.52	704.34	676.70	27.64	25.484			
3,500.00	3,333.58	3,436.45	3,401.43	20.84	14.43	-157.24	-187.59	359.29	728.35	699.85	28.50	25.554			
3,600.00	3,427.08	3,533.52	3,497.32	21.55	14.86	-157.34	-197.01	371.05	752.37	723.00	29.37	25.619			
3,700.00	3,520.57	3,630.59	3,593.21	22.26	15.30	-157.43	-206.42	382.82	776.39	746.15	30.23	25.681			
3,800.00	3,614.07	3,727.65	3,689.09	22.97	15.73	-157.52	-215.83	394.59	800.41	769.31	31.10	25.739			
3,900.00	3,707.57	3,824.72	3,784.98	23.69	16.16	-157.60	-225.24	406.36	824.43	792.46	31.96	25.793			
4,000.00	3,801.06	3,921.78	3,880.87	24.40	16.60	-157.68	-234.66	418.12	848.45	815.62	32.83	25.845			
4,100.00	3,894.56	4,018.85	3,976.76	25.11	17.03	-157.75	-244.07	429.89	872.47	838.78	33.69	25.894			
4,200.00	3,988.05	4,115.91	4,072.65	25.82	17.47	-157.82	-253.48	441.66	896.50	861.94	34.56	25.941			
4,300.00	4,081.55	4,212.98	4,168.54	26.53	17.90	-157.89	-262.90	453.43	920.52	885.10	35.42	25.985			
4,400.00	4,175.05	4,310.04	4,264.43	27.25	18.34	-157.95	-272.31	465.19	944.55	908.26	36.29	26.027			
4,500.00	4,268.54	4,407.11	4,360.31	27.96	18.77	-158.01	-281.72	476.96	968.58	931.42	37.16	26.067			
4,600.00	4,362.04	4,504.17	4,456.20	28.67	19.20	-158.07	-291.14	488.73	992.61	954.58	38.02	26.106			
4,700.00	4,455.54	4,601.24	4,552.09	29.38	19.64	-158.13	-300.55	500.50	1,016.64	977.75	38.89	26.142			
4,800.00	4,549.03	4,701.69	4,647.98	30.10	20.09	-158.18	-309.96	512.26	1,040.67	1,000.90	39.77	26.168			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
4,900.00	4,642.53	4,804.63	4,743.87	30.81	20.55	-158.23	-319.37	524.03	1,064.70	1,024.04	40.66	26.185		
5,000.00	4,736.03	4,892.44	4,839.76	31.52	20.94	-158.27	-328.79	535.80	1,088.73	1,047.24	41.49	26.242		
5,100.00	4,829.52	4,989.50	4,935.65	32.24	21.38	-158.32	-338.20	547.57	1,112.77	1,070.41	42.35	26.273		
5,200.00	4,923.02	5,086.57	5,031.54	32.95	21.81	-158.36	-347.61	559.33	1,136.80	1,093.58	43.22	26.302		
5,300.00	5,016.52	5,183.63	5,127.42	33.66	22.24	-158.40	-357.03	571.10	1,160.83	1,116.75	44.09	26.330		
5,400.00	5,110.01	5,280.70	5,223.31	34.38	22.68	-158.44	-366.44	582.87	1,184.87	1,139.91	44.95	26.357		
5,500.00	5,203.51	5,377.76	5,319.20	35.09	23.11	-158.48	-375.85	594.64	1,208.90	1,163.08	45.82	26.383		
5,600.00	5,297.01	5,474.83	5,415.09	35.80	23.55	-158.52	-385.27	606.40	1,232.94	1,186.25	46.69	26.408		
5,700.00	5,390.50	5,571.89	5,510.98	36.52	23.98	-158.55	-394.68	618.17	1,256.97	1,209.42	47.56	26.432		
5,800.00	5,484.00	5,668.96	5,606.87	37.23	24.42	-158.59	-404.09	629.94	1,281.01	1,232.59	48.42	26.455		
5,900.00	5,577.50	5,766.03	5,702.76	37.94	24.85	-158.62	-413.51	641.71	1,305.05	1,255.76	49.29	26.477		
6,000.00	5,670.99	5,863.09	5,798.64	38.66	25.28	-158.65	-422.92	653.47	1,329.09	1,278.93	50.16	26.499		
6,100.00	5,764.49	5,960.16	5,894.53	39.37	25.72	-158.68	-432.33	665.24	1,353.12	1,302.10	51.02	26.519		
6,200.00	5,857.98	6,057.22	5,990.42	40.08	26.15	-158.71	-441.74	677.01	1,377.16	1,325.27	51.89	26.539		
6,300.00	5,951.48	6,154.29	6,086.31	40.80	26.59	-158.74	-451.16	688.78	1,401.20	1,348.44	52.76	26.558		
6,400.00	6,044.98	6,251.35	6,182.20	41.51	27.02	-158.77	-460.57	700.54	1,425.24	1,371.61	53.63	26.577		
6,500.00	6,138.47	6,348.42	6,278.09	42.22	27.46	-158.79	-469.98	712.31	1,449.28	1,394.78	54.49	26.595		
6,600.00	6,231.97	6,445.48	6,373.98	42.94	27.89	-158.82	-479.40	724.08	1,473.32	1,417.96	55.36	26.613		
6,700.00	6,325.47	6,542.55	6,469.86	43.65	28.33	-158.85	-488.81	735.85	1,497.36	1,441.13	56.23	26.629		
6,800.00	6,418.96	6,639.61	6,565.75	44.37	28.76	-158.87	-498.22	747.61	1,521.40	1,464.30	57.10	26.646		
6,900.00	6,512.46	6,736.68	6,661.64	45.08	29.19	-158.89	-507.64	759.38	1,545.44	1,487.47	57.97	26.661		
7,000.00	6,605.96	6,833.75	6,757.53	45.79	29.63	-158.92	-517.05	771.15	1,569.48	1,510.64	58.83	26.677		
7,100.00	6,699.45	6,930.81	6,853.42	46.51	30.06	-158.94	-526.46	782.92	1,593.52	1,533.82	59.70	26.691		
7,200.00	6,792.95	7,027.88	6,949.31	47.22	30.50	-158.96	-535.87	794.68	1,617.56	1,556.99	60.57	26.706		
7,300.00	6,886.45	7,124.94	7,045.20	47.94	30.93	-158.98	-545.29	806.45	1,641.60	1,580.16	61.44	26.720		
7,400.00	6,979.94	7,222.01	7,141.08	48.65	31.37	-159.00	-554.70	818.22	1,665.64	1,603.34	62.31	26.733		
7,500.00	7,073.44	7,319.07	7,236.97	49.36	31.80	-159.02	-564.11	829.99	1,689.68	1,626.51	63.17	26.746		
7,600.00	7,166.94	7,417.05	7,333.82	50.08	32.23	-159.05	-573.62	841.40	1,713.72	1,649.68	64.04	26.762		
7,700.00	7,260.43	7,516.27	7,432.42	50.79	32.57	-159.07	-583.38	849.88	1,737.76	1,672.97	64.91	26.777		
7,710.39	7,270.15	7,526.26	7,442.31	50.87	32.59	-159.07	-584.36	839.88	1,740.13	1,675.41	64.72	26.886		
7,750.00	7,307.31	7,563.91	7,479.40	51.14	32.68	-171.27	-588.06	834.55	1,749.67	1,684.79	64.88	26.969		
7,800.00	7,354.38	7,610.71	7,524.87	51.46	32.77	173.20	-592.61	824.53	1,761.79	1,696.76	65.03	27.092		
7,850.00	7,401.31	7,656.77	7,568.68	51.75	32.84	158.36	-597.02	811.06	1,773.91	1,708.77	65.14	27.232		
7,900.00	7,447.74	7,702.19	7,610.69	52.00	32.89	145.46	-601.27	794.36	1,785.93	1,720.72	65.22	27.385		
7,950.00	7,493.32	7,747.04	7,650.75	52.22	32.92	134.87	-605.34	774.64	1,797.76	1,732.49	65.27	27.545		
8,000.00	7,537.69	7,791.40	7,688.75	52.41	32.94	126.39	-609.23	752.09	1,809.29	1,743.99	65.30	27.708		
8,050.00	7,580.52	7,835.33	7,724.55	52.57	32.95	119.59	-612.91	726.92	1,820.43	1,755.11	65.32	27.870		
8,100.00	7,621.49	7,878.90	7,758.06	52.70	32.95	114.10	-616.39	699.30	1,831.08	1,765.74	65.34	28.025		
8,150.00	7,660.28	7,922.16	7,789.16	52.81	32.94	109.61	-619.63	669.43	1,841.17	1,775.80	65.36	28.168		
8,200.00	7,696.59	7,965.14	7,817.76	52.89	32.93	105.90	-622.64	637.50	1,850.60	1,785.20	65.40	28.295		
8,250.00	7,730.16	8,007.90	7,843.76	52.95	32.91	102.83	-625.41	603.68	1,859.31	1,793.84	65.47	28.400		
8,300.00	7,760.72	8,050.47	7,867.09	52.98	32.90	100.28	-627.92	568.17	1,867.22	1,801.65	65.57	28.478		
8,350.00	7,788.05	8,092.88	7,887.65	53.00	32.88	98.16	-630.16	531.16	1,874.27	1,808.55	65.72	28.521		
8,400.00	7,811.93	8,135.15	7,905.38	53.00	32.87	96.42	-632.14	492.85	1,880.40	1,814.49	65.92	28.527		
8,450.00	7,832.18	8,177.31	7,920.21	52.99	32.87	95.02	-633.83	453.43	1,885.58	1,819.40	66.18	28.492		
8,500.00	7,848.65	8,219.37	7,932.10	52.95	32.88	93.93	-635.24	413.12	1,889.75	1,823.24	66.51	28.414		
8,550.00	7,861.21	8,261.36	7,940.99	52.91	32.90	93.12	-636.35	372.11	1,892.88	1,825.97	66.90	28.292		
8,600.00	7,869.78	8,303.28	7,946.87	52.85	32.95	92.58	-637.17	330.62	1,894.95	1,827.58	67.37	28.127		
8,650.00	7,874.27	8,345.15	7,949.71	52.78	33.02	92.31	-637.69	288.86	1,895.94	1,828.04	67.91	27.919		
8,679.79	7,875.00	8,371.39	7,950.00	52.74	33.08	92.26	-637.87	262.62	1,896.02	1,827.76	68.26	27.777		
8,700.00	7,875.00	8,408.40	7,950.00	52.70	33.19	92.26	-637.99	242.41	1,895.93	1,827.28	68.64	27.621		
8,800.00	7,875.00	8,508.40	7,950.00	52.56	33.70	92.26	-638.56	142.41	1,895.46	1,825.27	70.19	27.004		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
8,900.00	7,875.00	8,608.40	7,950.00	52.44	34.51	92.27	-639.14	42.42	1,895.00	1,822.89	72.11	26.279			
9,000.00	7,875.00	8,708.40	7,950.00	52.34	35.59	92.27	-639.71	-57.58	1,894.54	1,820.17	74.37	25.474			
9,100.00	7,875.00	8,808.40	7,950.00	52.27	36.89	92.27	-640.29	-157.58	1,894.08	1,817.14	76.94	24.617			
9,200.00	7,875.00	8,908.41	7,950.00	52.22	38.36	92.27	-640.86	-257.58	1,893.62	1,813.83	79.79	23.732			
9,300.00	7,875.00	9,008.41	7,950.00	52.20	39.98	92.27	-641.44	-357.57	1,893.16	1,810.27	82.89	22.838			
9,400.00	7,875.00	9,108.41	7,950.00	52.24	41.71	92.27	-642.01	-457.57	1,892.70	1,806.48	86.22	21.952			
9,500.00	7,875.00	9,208.41	7,950.00	52.35	43.55	92.27	-642.59	-557.57	1,892.24	1,802.50	89.75	21.085			
9,600.00	7,875.00	9,308.41	7,950.00	52.62	45.47	92.27	-643.16	-657.57	1,891.78	1,798.34	93.45	20.244			
9,700.00	7,875.00	9,408.41	7,950.00	53.16	47.46	92.27	-643.74	-757.56	1,891.32	1,794.02	97.31	19.437			
9,800.00	7,875.00	9,508.41	7,950.00	54.13	49.53	92.27	-644.31	-857.56	1,890.86	1,789.56	101.30	18.666			
9,900.00	7,875.00	9,608.41	7,950.00	55.55	51.65	92.27	-644.89	-957.56	1,890.40	1,784.98	105.42	17.932			
10,000.00	7,875.00	9,708.41	7,950.00	57.28	53.82	92.27	-645.46	-1,057.56	1,889.94	1,780.29	109.65	17.236			
10,100.00	7,875.00	9,808.42	7,950.00	59.21	56.04	92.27	-646.03	-1,157.55	1,889.48	1,775.51	113.98	16.578			
10,200.00	7,875.00	9,908.42	7,950.00	61.26	58.29	92.27	-646.61	-1,257.55	1,889.02	1,770.64	118.39	15.956			
10,300.00	7,875.00	10,008.42	7,950.00	63.38	60.58	92.27	-647.18	-1,357.55	1,888.56	1,765.69	122.88	15.370			
10,400.00	7,875.00	10,108.42	7,950.00	65.57	62.90	92.27	-647.76	-1,457.54	1,888.10	1,760.67	127.43	14.816			
10,500.00	7,875.00	10,208.42	7,950.00	67.80	65.25	92.27	-648.33	-1,557.54	1,887.64	1,755.59	132.05	14.295			
10,600.00	7,875.00	10,308.42	7,950.00	70.07	67.63	92.27	-648.91	-1,657.54	1,887.18	1,750.46	136.73	13.802			
10,700.00	7,875.00	10,408.42	7,950.00	72.37	70.03	92.28	-649.48	-1,757.54	1,886.72	1,745.27	141.45	13.338			
10,800.00	7,875.00	10,508.42	7,950.00	74.70	72.45	92.28	-650.06	-1,857.53	1,886.26	1,740.04	146.22	12.900			
10,900.00	7,875.00	10,608.42	7,950.00	77.06	74.88	92.28	-650.63	-1,957.53	1,885.80	1,734.77	151.03	12.486			
11,000.00	7,875.00	10,708.42	7,950.00	79.44	77.34	92.28	-651.21	-2,057.53	1,885.34	1,729.46	155.88	12.095			
11,100.00	7,875.00	10,808.43	7,950.00	81.84	79.81	92.28	-651.78	-2,157.53	1,884.88	1,724.12	160.76	11.725			
11,200.00	7,875.00	10,908.43	7,950.00	84.26	82.29	92.28	-652.36	-2,257.52	1,884.42	1,718.75	165.68	11.374			
11,300.00	7,875.00	11,008.43	7,950.00	86.69	84.78	92.28	-652.93	-2,357.52	1,883.96	1,713.35	170.62	11.042			
11,400.00	7,875.00	11,108.43	7,950.00	89.14	87.29	92.28	-653.51	-2,457.52	1,883.50	1,707.92	175.58	10.727			
11,500.00	7,875.00	11,208.43	7,950.00	91.60	89.81	92.28	-654.08	-2,557.51	1,883.04	1,702.47	180.57	10.428			
11,600.00	7,875.00	11,308.43	7,950.00	94.07	92.33	92.28	-654.66	-2,657.51	1,882.58	1,697.00	185.58	10.144			
11,700.00	7,875.00	11,408.43	7,950.00	96.56	94.87	92.28	-655.23	-2,757.51	1,882.12	1,691.51	190.62	9.874			
11,800.00	7,875.00	11,508.43	7,950.00	99.05	97.41	92.28	-655.80	-2,857.51	1,881.66	1,686.00	195.67	9.617			
11,900.00	7,875.00	11,608.43	7,950.00	101.56	99.97	92.28	-656.38	-2,957.50	1,881.20	1,680.47	200.73	9.372			
12,000.00	7,875.00	11,708.44	7,950.00	104.07	102.52	92.28	-656.95	-3,057.50	1,880.74	1,674.92	205.82	9.138			
12,100.00	7,875.00	11,808.44	7,950.00	106.60	105.09	92.28	-657.53	-3,157.50	1,880.28	1,669.37	210.91	8.915			
12,200.00	7,875.00	11,908.44	7,950.00	109.13	107.66	92.28	-658.10	-3,257.50	1,879.82	1,663.79	216.03	8.702			
12,300.00	7,875.00	12,008.44	7,950.00	111.66	110.24	92.28	-658.68	-3,357.49	1,879.36	1,658.21	221.15	8.498			
12,400.00	7,875.00	12,108.44	7,950.00	114.21	112.82	92.28	-659.25	-3,457.49	1,878.90	1,652.61	226.29	8.303			
12,500.00	7,875.00	12,208.44	7,950.00	116.76	115.41	92.29	-659.83	-3,557.49	1,878.44	1,647.01	231.43	8.117			
12,600.00	7,875.00	12,308.44	7,950.00	119.32	118.00	92.29	-660.40	-3,657.48	1,877.98	1,641.39	236.59	7.938			
12,700.00	7,875.00	12,391.56	7,950.00	121.88	120.16	92.29	-660.98	-3,757.48	1,877.52	1,636.20	241.32	7.780			
12,800.00	7,875.00	12,508.44	7,950.00	124.45	123.20	92.29	-661.55	-3,857.48	1,877.06	1,630.13	246.93	7.601			
12,900.00	7,875.00	12,608.44	7,950.00	127.02	125.80	92.29	-662.13	-3,957.48	1,876.60	1,624.48	252.12	7.443			
13,000.00	7,875.00	12,691.55	7,950.00	129.60	127.97	92.29	-662.70	-4,057.47	1,876.14	1,619.27	256.87	7.304			
13,100.00	7,875.00	12,808.45	7,950.00	132.18	131.02	92.29	-663.28	-4,157.47	1,875.68	1,613.17	262.51	7.145			
13,200.00	7,875.00	12,908.45	7,950.00	134.77	133.63	92.29	-663.85	-4,257.47	1,875.22	1,607.50	267.72	7.004			
13,300.00	7,875.00	13,008.45	7,950.00	137.36	136.25	92.29	-664.42	-4,357.47	1,874.76	1,601.83	272.93	6.869			
13,400.00	7,875.00	13,091.55	7,950.00	139.96	138.43	92.29	-665.00	-4,457.46	1,874.30	1,596.59	277.71	6.749			
13,500.00	7,875.00	13,208.45	7,950.00	142.55	141.49	92.29	-665.57	-4,557.46	1,873.84	1,590.46	283.38	6.613			
13,600.00	7,875.00	13,308.45	7,950.00	145.15	144.12	92.29	-666.15	-4,657.46	1,873.38	1,584.77	288.61	6.491			
13,700.00	7,875.00	13,408.45	7,950.00	147.76	146.75	92.29	-666.72	-4,757.45	1,872.92	1,579.07	293.85	6.374			
13,800.00	7,875.00	13,508.45	7,950.00	150.37	149.37	92.29	-667.30	-4,857.45	1,872.46	1,573.37	299.09	6.261			
13,900.00	7,875.00	13,608.46	7,950.00	152.98	152.01	92.29	-667.87	-4,957.45	1,872.00	1,567.66	304.33	6.151			
14,000.00	7,875.00	13,708.46	7,950.00	155.59	154.64	92.29	-668.45	-5,057.45	1,871.54	1,561.95	309.59	6.045			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
14,100.00	7,875.00	13,808.46	7,950.00	158.20	157.28	92.29	-669.02	-5,157.44	1,871.08	1,556.24	314.84	5.943			
14,200.00	7,875.00	13,908.46	7,950.00	160.82	159.91	92.29	-669.60	-5,257.44	1,870.62	1,550.52	320.10	5.844			
14,300.00	7,875.00	13,991.54	7,950.00	163.44	162.11	92.30	-670.17	-5,357.44	1,870.16	1,545.24	324.92	5.756			
14,400.00	7,875.00	14,108.46	7,950.00	166.06	165.19	92.30	-670.75	-5,457.44	1,869.70	1,539.07	330.63	5.655			
14,500.00	7,875.00	14,208.46	7,950.00	168.69	167.84	92.30	-671.32	-5,557.43	1,869.24	1,533.34	335.90	5.565			
14,600.00	7,875.00	14,308.46	7,950.00	171.32	170.48	92.30	-671.90	-5,657.43	1,868.78	1,527.60	341.18	5.477			
14,700.00	7,875.00	14,391.54	7,950.00	173.94	172.68	92.30	-672.47	-5,757.43	1,868.32	1,522.31	346.01	5.400			
14,800.00	7,875.00	14,508.46	7,950.00	176.57	175.77	92.30	-673.04	-5,857.43	1,867.86	1,516.12	351.74	5.310			
14,900.00	7,875.00	14,608.47	7,950.00	179.21	178.42	92.30	-673.62	-5,957.42	1,867.40	1,510.38	357.02	5.231			
15,000.00	7,875.00	14,708.47	7,950.00	181.84	181.07	92.30	-674.19	-6,057.42	1,866.94	1,504.63	362.30	5.153			
15,100.00	7,875.00	14,808.47	7,950.00	184.48	183.72	92.30	-674.77	-6,157.42	1,866.48	1,498.88	367.59	5.078			
15,200.00	7,875.00	14,908.47	7,950.00	187.11	186.37	92.30	-675.34	-6,257.41	1,866.02	1,493.13	372.89	5.004			
15,300.00	7,875.00	15,008.47	7,950.00	189.75	189.03	92.30	-675.92	-6,357.41	1,865.56	1,487.38	378.18	4.933			
15,400.00	7,875.00	15,108.47	7,950.00	192.39	191.68	92.30	-676.49	-6,457.41	1,865.10	1,481.62	383.48	4.864			
15,500.00	7,875.00	15,208.47	7,950.00	195.03	194.34	92.30	-677.07	-6,557.41	1,864.64	1,475.86	388.77	4.796			
15,600.00	7,875.00	15,308.47	7,950.00	197.67	196.99	92.30	-677.64	-6,657.40	1,864.18	1,470.10	394.07	4.731			
15,700.00	7,875.00	15,408.47	7,950.00	200.32	199.65	92.30	-678.22	-6,757.40	1,863.72	1,464.34	399.38	4.667			
15,800.00	7,875.00	15,508.48	7,950.00	202.96	202.31	92.30	-678.79	-6,857.40	1,863.26	1,458.58	404.68	4.604			
15,900.00	7,875.00	15,608.48	7,950.00	205.61	204.97	92.30	-679.37	-6,957.40	1,862.80	1,452.81	409.99	4.544			
16,000.00	7,875.00	15,708.48	7,950.00	208.26	207.63	92.30	-679.94	-7,057.39	1,862.34	1,447.04	415.30	4.484			
16,100.00	7,875.00	15,808.48	7,950.00	210.91	210.29	92.31	-680.52	-7,157.39	1,861.88	1,441.27	420.61	4.427			
16,200.00	7,875.00	15,908.48	7,950.00	213.56	212.95	92.31	-681.09	-7,257.39	1,861.42	1,435.50	425.92	4.370			
16,300.00	7,875.00	16,008.48	7,950.00	216.21	215.61	92.31	-681.67	-7,357.38	1,860.96	1,429.72	431.23	4.315			
16,400.00	7,875.00	16,108.48	7,950.00	218.86	218.27	92.31	-682.24	-7,457.38	1,860.50	1,423.95	436.55	4.262			
16,500.00	7,875.00	16,208.48	7,950.00	221.51	220.94	92.31	-682.81	-7,557.38	1,860.04	1,418.17	441.87	4.209			
16,600.00	7,875.00	16,308.48	7,950.00	224.16	223.60	92.31	-683.39	-7,657.38	1,859.58	1,412.39	447.19	4.158			
16,700.00	7,875.00	16,408.49	7,950.00	226.82	226.26	92.31	-683.96	-7,757.37	1,859.12	1,406.61	452.51	4.108			
16,800.00	7,875.00	16,491.51	7,950.00	229.47	228.48	92.31	-684.54	-7,857.37	1,858.66	1,401.28	457.37	4.064			
16,900.00	7,875.00	16,608.49	7,950.00	232.13	231.60	92.31	-685.11	-7,957.37	1,858.20	1,395.05	463.15	4.012			
17,000.00	7,875.00	16,691.51	7,950.00	234.79	233.81	92.31	-685.69	-8,057.37	1,857.74	1,389.72	468.02	3.969			
17,100.00	7,875.00	16,808.49	7,950.00	237.44	236.93	92.31	-686.26	-8,157.36	1,857.28	1,383.48	473.80	3.920			
17,200.00	7,875.00	16,908.49	7,950.00	240.10	239.60	92.31	-686.84	-8,257.36	1,856.82	1,377.69	479.12	3.875			
17,300.00	7,875.00	17,008.49	7,950.00	242.76	242.27	92.31	-687.41	-8,357.36	1,856.36	1,371.90	484.45	3.832			
17,400.00	7,875.00	17,108.49	7,950.00	245.42	244.93	92.31	-687.99	-8,457.35	1,855.90	1,366.12	489.78	3.789			
17,500.00	7,875.00	17,208.49	7,950.00	248.08	247.60	92.31	-688.56	-8,557.35	1,855.44	1,360.33	495.11	3.748			
17,600.00	7,875.00	17,308.49	7,950.00	250.74	250.27	92.31	-689.14	-8,657.35	1,854.98	1,354.54	500.44	3.707			
17,700.00	7,875.00	17,408.50	7,950.00	253.41	252.94	92.31	-689.71	-8,757.35	1,854.52	1,348.74	505.77	3.667			
17,800.00	7,875.00	17,508.50	7,950.00	256.07	255.61	92.32	-690.29	-8,857.34	1,854.06	1,342.95	511.10	3.628			
17,900.00	7,875.00	17,608.50	7,950.00	258.73	258.28	92.32	-690.86	-8,957.34	1,853.60	1,337.16	516.44	3.589			
18,000.00	7,875.00	17,708.50	7,950.00	261.39	260.95	92.32	-691.43	-9,057.34	1,853.14	1,331.36	521.77	3.552			
18,100.00	7,875.00	17,808.50	7,950.00	264.06	263.63	92.32	-692.01	-9,157.34	1,852.68	1,325.57	527.11	3.515			
18,200.00	7,875.00	17,908.50	7,950.00	266.72	266.30	92.32	-692.58	-9,257.33	1,852.22	1,319.77	532.44	3.479			
18,300.00	7,875.00	18,008.50	7,950.00	269.39	268.97	92.32	-693.16	-9,357.33	1,851.76	1,313.97	537.78	3.443			
18,400.00	7,875.00	18,108.50	7,950.00	272.05	271.64	92.32	-693.73	-9,457.33	1,851.30	1,308.18	543.12	3.409			
18,500.00	7,875.00	18,191.50	7,950.00	274.72	273.86	92.32	-694.31	-9,557.32	1,850.84	1,302.83	548.00	3.377			
18,567.42	7,875.00	18,258.91	7,950.00	276.52	275.66	92.32	-694.70	-9,624.74	1,850.52	1,298.92	551.60	3.355 SF			
18,575.92	7,875.00	18,253.56	7,950.00	276.74	275.52	92.32	-694.67	-9,619.39	1,850.54	1,299.02	551.52	3.355			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 3CH - 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	0.00	49.90	0.00	49.90						
100.00	100.00	100.10	100.10	0.13	0.13	0.00	49.90	0.00	49.90	49.64	0.27	185.373			
200.00	200.00	200.10	200.10	0.49	0.49	0.00	49.90	0.00	49.90	48.92	0.99	50.605			
250.00	250.00	250.10	250.10	0.67	0.67	0.00	49.90	0.00	49.90	48.56	1.34	37.114			
255.08	255.08	255.26	255.26	0.69	0.69	-160.02	49.90	0.00	49.90	48.52	1.38	36.168	CC		
300.00	300.00	300.90	300.90	0.84	0.85	-159.98	49.49	0.19	49.91	48.22	1.69	29.525			
400.00	399.93	402.51	402.44	1.19	1.19	-159.62	46.22	1.71	49.97	47.60	2.38	21.041			
500.00	499.68	504.11	503.77	1.54	1.56	-158.93	39.69	4.74	50.10	47.02	3.08	16.271			
600.00	599.13	605.70	604.78	1.92	1.94	-157.89	29.90	9.28	50.32	46.52	3.80	13.249			
700.00	698.15	707.27	705.33	2.32	2.35	-156.52	16.87	15.33	50.62	46.09	4.53	11.169			
800.00	796.63	808.84	805.30	2.74	2.78	-154.84	0.62	22.87	51.05	45.76	5.29	9.653			
900.00	894.44	910.38	904.55	3.21	3.26	-152.86	-18.83	31.90	51.61	45.54	6.08	8.495			
1,000.00	991.46	1,011.90	1,002.95	3.71	3.77	-150.62	-41.46	42.39	52.34	45.43	6.91	7.573	ES		
1,100.00	1,087.58	1,112.98	1,100.02	4.25	4.32	-148.25	-66.99	54.24	53.38	45.57	7.80	6.840			
1,200.00	1,182.68	1,212.91	1,195.74	4.83	4.89	-147.35	-93.05	66.33	56.69	47.95	8.73	6.491			
1,288.87	1,266.25	1,301.61	1,280.70	5.39	5.40	-148.10	-116.18	77.06	62.10	52.56	9.54	6.507			
1,300.00	1,276.66	1,312.71	1,291.33	5.46	5.47	-148.27	-119.07	78.41	62.93	53.28	9.65	6.525			
1,400.00	1,370.15	1,412.42	1,386.83	6.12	6.05	-149.65	-145.07	90.47	70.37	59.83	10.54	6.675			
1,500.00	1,463.65	1,512.13	1,482.33	6.80	6.64	-150.77	-171.07	102.53	77.84	66.40	11.44	6.802			
1,600.00	1,557.15	1,611.84	1,577.83	7.48	7.23	-151.69	-197.06	114.60	85.34	72.99	12.35	6.911			
1,700.00	1,650.64	1,711.55	1,673.33	8.16	7.83	-152.46	-223.06	126.66	92.86	79.61	13.25	7.006			
1,800.00	1,744.14	1,811.26	1,768.84	8.85	8.43	-153.11	-249.06	138.72	100.39	86.23	14.16	7.089			
1,900.00	1,837.64	1,910.97	1,864.34	9.55	9.03	-153.67	-275.06	150.79	107.93	92.86	15.07	7.162			
2,000.00	1,931.13	2,010.68	1,959.84	10.24	9.63	-154.17	-301.05	162.85	115.48	99.50	15.98	7.227			
2,100.00	2,024.63	2,110.39	2,055.34	10.94	10.24	-154.59	-327.05	174.91	123.04	106.15	16.89	7.285			
2,200.00	2,118.12	2,210.10	2,150.85	11.64	10.84	-154.97	-353.05	186.98	130.60	112.80	17.80	7.337			
2,300.00	2,211.62	2,309.81	2,246.35	12.35	11.45	-155.31	-379.05	199.04	138.17	119.46	18.71	7.384			
2,400.00	2,305.12	2,409.52	2,341.85	13.05	12.05	-155.62	-405.04	211.10	145.75	126.12	19.62	7.427			
2,500.00	2,398.61	2,509.23	2,437.35	13.75	12.66	-155.89	-431.04	223.17	153.33	132.79	20.54	7.466			
2,600.00	2,492.11	2,608.94	2,532.85	14.46	13.27	-156.14	-457.04	235.23	160.91	139.45	21.45	7.501			
2,700.00	2,585.61	2,708.65	2,628.36	15.17	13.88	-156.36	-483.04	247.29	168.49	146.12	22.36	7.534			
2,800.00	2,679.10	2,808.36	2,723.86	15.87	14.48	-156.57	-509.03	259.36	176.07	152.80	23.28	7.564			
2,900.00	2,772.60	2,908.07	2,819.36	16.58	15.09	-156.76	-535.03	271.42	183.66	159.47	24.19	7.591			
3,000.00	2,866.10	3,007.78	2,914.86	17.29	15.70	-156.93	-561.03	283.48	191.25	166.14	25.11	7.617			
3,100.00	2,959.59	3,107.49	3,010.37	18.00	16.31	-157.09	-587.03	295.55	198.84	172.82	26.02	7.641			
3,200.00	3,053.09	3,207.20	3,105.87	18.71	16.92	-157.24	-613.03	307.61	206.44	179.50	26.94	7.663			
3,300.00	3,146.59	3,306.91	3,201.37	19.42	17.53	-157.38	-639.02	319.67	214.03	186.18	27.85	7.684			
3,400.00	3,240.08	3,406.62	3,296.87	20.13	18.14	-157.51	-665.02	331.74	221.62	192.85	28.77	7.704			
3,500.00	3,333.58	3,506.33	3,392.37	20.84	18.75	-157.63	-691.02	343.80	229.22	199.53	29.68	7.722			
3,600.00	3,427.08	3,606.04	3,487.88	21.55	19.37	-157.74	-717.02	355.86	236.82	206.22	30.60	7.739			
3,700.00	3,520.57	3,705.75	3,583.38	22.26	19.98	-157.85	-743.01	367.93	244.41	212.90	31.52	7.755			
3,800.00	3,614.07	3,805.46	3,678.88	22.97	20.59	-157.95	-769.01	379.99	252.01	219.58	32.43	7.770			
3,900.00	3,707.57	3,905.17	3,774.38	23.69	21.20	-158.04	-795.01	392.05	259.61	226.26	33.35	7.785			
4,000.00	3,801.06	4,004.88	3,869.89	24.40	21.81	-158.13	-821.01	404.12	267.21	232.95	34.27	7.798			
4,100.00	3,894.56	4,104.59	3,965.39	25.11	22.42	-158.21	-847.00	416.18	274.81	239.63	35.18	7.811			
4,200.00	3,988.05	4,204.30	4,060.89	25.82	23.03	-158.29	-873.00	428.24	282.41	246.31	36.10	7.823			
4,300.00	4,081.55	4,304.01	4,156.39	26.53	23.64	-158.36	-899.00	440.30	290.02	253.00	37.02	7.835			
4,400.00	4,175.05	4,403.72	4,251.90	27.25	24.26	-158.43	-925.00	452.37	297.62	259.68	37.93	7.846			
4,500.00	4,268.54	4,503.43	4,347.40	27.96	24.87	-158.50	-950.99	464.43	305.22	266.37	38.85	7.856			
4,600.00	4,362.04	4,603.14	4,442.90	28.67	25.48	-158.57	-976.99	476.49	312.82	273.06	39.77	7.866			
4,700.00	4,455.54	4,702.85	4,538.40	29.38	26.09	-158.63	-1,002.99	488.56	320.43	279.74	40.68	7.876			
4,800.00	4,549.03	4,802.56	4,633.90	30.10	26.70	-158.68	-1,028.99	500.62	328.03	286.43	41.60	7.885			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 3CH - 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			
4,900.00	4,642.53	4,902.27	4,729.41	30.81	27.32	-158.74	-1,054.98	512.68	335.63	293.12	42.52	7.894			
5,000.00	4,736.03	5,001.98	4,824.91	31.52	27.93	-158.79	-1,080.98	524.75	343.24	299.80	43.44	7.902			
5,100.00	4,829.52	5,101.69	4,920.41	32.24	28.54	-158.84	-1,106.98	536.81	350.84	306.49	44.35	7.910			
5,200.00	4,923.02	5,201.40	5,015.91	32.95	29.15	-158.89	-1,132.98	548.87	358.45	313.18	45.27	7.918			
5,300.00	5,016.52	5,301.11	5,111.42	33.66	29.77	-158.94	-1,158.97	560.94	366.05	319.86	46.19	7.925			
5,400.00	5,110.01	5,400.82	5,206.92	34.38	30.38	-158.98	-1,184.97	573.00	373.66	326.55	47.10	7.932			
5,500.00	5,203.51	5,500.53	5,302.42	35.09	30.99	-159.03	-1,210.97	585.06	381.26	333.24	48.02	7.939			
5,600.00	5,297.01	5,600.24	5,397.92	35.80	31.60	-159.07	-1,236.97	597.13	388.87	339.93	48.94	7.946			
5,700.00	5,390.50	5,700.05	5,493.42	36.52	32.22	-159.11	-1,262.97	609.19	396.47	346.62	49.86	7.952			
5,800.00	5,484.00	5,800.34	5,588.93	37.23	32.83	-159.15	-1,288.96	621.25	404.08	353.30	50.78	7.958			
5,900.00	5,577.50	5,899.37	5,684.43	37.94	33.44	-159.18	-1,314.96	633.32	411.69	359.99	51.69	7.964			
6,000.00	5,670.99	6,000.92	5,779.93	38.66	34.07	-159.22	-1,340.96	645.38	419.29	366.67	52.62	7.969			
6,100.00	5,764.49	6,101.21	5,875.43	39.37	34.68	-159.25	-1,366.96	657.44	426.90	373.36	53.54	7.974			
6,200.00	5,857.98	6,201.50	5,970.94	40.08	35.30	-159.28	-1,392.95	669.51	434.51	380.05	54.46	7.979			
6,300.00	5,951.48	6,301.79	6,066.44	40.80	35.91	-159.32	-1,418.95	681.57	442.11	386.73	55.38	7.983			
6,400.00	6,044.98	6,402.08	6,161.94	41.51	36.53	-159.35	-1,444.95	693.63	449.72	393.42	56.30	7.988			
6,500.00	6,138.47	6,497.63	6,257.44	42.22	37.12	-159.38	-1,470.95	705.70	457.33	400.13	57.20	7.995			
6,600.00	6,231.97	6,597.34	6,352.95	42.94	37.73	-159.41	-1,496.94	717.76	464.93	406.82	58.12	8.000			
6,700.00	6,325.47	6,702.95	6,448.45	43.65	38.38	-159.43	-1,522.94	729.82	472.54	413.48	59.06	8.001			
6,800.00	6,418.96	6,803.24	6,543.95	44.37	39.00	-159.46	-1,548.94	741.89	480.15	420.17	59.98	8.005			
6,900.00	6,512.46	6,903.53	6,639.45	45.08	39.61	-159.49	-1,574.94	753.95	487.76	426.85	60.90	8.009			
7,000.00	6,605.96	7,003.82	6,734.95	45.79	40.23	-159.51	-1,600.93	766.01	495.36	433.54	61.82	8.013			
7,100.00	6,699.45	7,095.89	6,830.46	46.51	40.79	-159.54	-1,626.93	778.08	502.97	440.26	62.71	8.021			
7,200.00	6,792.95	7,204.40	6,925.96	47.22	41.46	-159.56	-1,652.93	790.14	510.58	446.91	63.66	8.020			
7,300.00	6,886.45	7,304.69	7,021.46	47.94	42.08	-159.58	-1,678.93	802.20	518.19	453.60	64.59	8.023			
7,400.00	6,979.94	7,404.98	7,116.96	48.65	42.69	-159.61	-1,704.92	814.27	525.79	460.29	65.51	8.027			
7,500.00	7,073.44	7,505.27	7,212.47	49.36	43.31	-159.63	-1,730.92	826.33	533.40	466.98	66.43	8.030			
7,600.00	7,166.94	7,594.44	7,307.97	50.08	43.86	-159.65	-1,756.92	838.39	541.01	473.71	67.30	8.039			
7,700.00	7,260.43	7,695.08	7,404.75	50.79	44.44	-160.21	-1,783.27	845.39	548.54	480.60	67.94	8.074			
7,710.39	7,270.15	7,705.41	7,414.71	50.87	44.49	-160.37	-1,785.99	845.16	549.32	481.37	67.96	8.083			
7,750.00	7,307.31	7,744.50	7,452.34	51.14	44.68	-171.71	-1,796.24	842.60	552.34	484.35	67.99	8.124			
7,800.00	7,354.38	7,793.27	7,498.91	51.46	44.88	173.20	-1,808.93	835.69	556.25	488.25	68.00	8.180			
7,850.00	7,401.31	7,841.45	7,544.18	51.75	45.05	158.81	-1,821.27	824.86	560.25	492.25	68.00	8.239			
7,900.00	7,447.74	7,889.07	7,587.92	52.00	45.19	146.36	-1,833.20	810.32	564.29	496.31	67.98	8.301			
7,950.00	7,493.32	7,936.17	7,629.88	52.22	45.31	136.21	-1,844.65	792.28	568.33	500.37	67.97	8.362			
8,000.00	7,537.69	7,982.78	7,669.86	52.41	45.40	128.15	-1,855.56	770.98	572.34	504.38	67.96	8.422			
8,050.00	7,580.52	8,028.95	7,707.68	52.57	45.47	121.76	-1,865.89	746.62	576.27	508.31	67.96	8.479			
8,100.00	7,621.49	8,074.72	7,743.19	52.70	45.52	116.66	-1,875.59	719.45	580.08	512.10	67.98	8.533			
8,150.00	7,660.28	8,120.11	7,776.22	52.81	45.55	112.54	-1,884.63	689.67	583.73	515.71	68.03	8.581			
8,200.00	7,696.59	8,165.17	7,806.67	52.89	45.57	109.17	-1,892.95	657.53	587.19	519.09	68.10	8.623			
8,250.00	7,730.16	8,209.93	7,834.40	52.95	45.57	106.41	-1,900.55	623.25	590.41	522.20	68.21	8.656			
8,300.00	7,760.72	8,254.42	7,859.33	52.98	45.56	104.13	-1,907.38	587.04	593.37	525.01	68.36	8.680			
8,350.00	7,788.05	8,298.68	7,881.36	53.00	45.54	102.26	-1,913.42	549.15	596.03	527.46	68.57	8.692			
8,400.00	7,811.93	8,342.75	7,900.43	53.00	45.50	100.73	-1,918.66	509.78	598.37	529.52	68.85	8.691			
8,450.00	7,832.18	8,386.64	7,916.46	52.99	45.46	99.51	-1,923.07	469.17	600.37	531.17	69.20	8.676			
8,500.00	7,848.65	8,430.40	7,929.42	52.95	45.40	98.56	-1,926.65	427.54	601.99	532.38	69.62	8.647			
8,550.00	7,861.21	8,474.06	7,939.25	52.91	45.34	97.86	-1,929.38	385.10	603.24	533.12	70.11	8.604			
8,600.00	7,869.78	8,517.64	7,945.93	52.85	45.27	97.39	-1,931.24	342.09	604.09	533.40	70.69	8.546			
8,650.00	7,874.27	8,561.17	7,949.43	52.78	45.19	97.15	-1,932.25	298.72	604.53	533.20	71.33	8.475			
8,679.79	7,875.00	8,587.40	7,950.00	52.74	45.15	97.12	-1,932.43	272.82	604.61	532.86	71.74	8.427			
8,700.00	7,875.00	8,607.28	7,950.00	52.70	45.11	97.12	-1,932.46	252.61	604.61	532.60	72.00	8.397			
8,800.00	7,875.00	8,707.28	7,950.00	52.56	44.95	97.12	-1,932.57	152.61	604.61	531.13	73.48	8.228			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
8,900.00	7,875.00	8,807.28	7,950.00	52.44	44.80	97.12	-1,932.68	52.61	604.61	529.30	75.31	8.029		
9,000.00	7,875.00	8,907.28	7,950.00	52.34	44.68	97.12	-1,932.80	-47.39	604.61	527.15	77.46	7.805		
9,100.00	7,875.00	9,007.28	7,950.00	52.27	44.57	97.12	-1,932.91	-147.39	604.61	524.69	79.91	7.566		
9,200.00	7,875.00	9,107.28	7,950.00	52.22	44.49	97.12	-1,933.03	-247.39	604.61	521.96	82.64	7.316		
9,300.00	7,875.00	9,207.28	7,950.00	52.20	44.48	97.12	-1,933.14	-347.39	604.61	518.99	85.62	7.062		
9,400.00	7,875.00	9,307.28	7,950.00	52.24	44.66	97.12	-1,933.25	-447.39	604.61	515.79	88.81	6.808		
9,500.00	7,875.00	9,407.28	7,950.00	52.35	45.59	97.12	-1,933.37	-547.39	604.61	512.39	92.21	6.557		
9,600.00	7,875.00	9,507.28	7,950.00	52.62	47.25	97.12	-1,933.48	-647.39	604.61	508.82	95.79	6.312		
9,700.00	7,875.00	9,607.28	7,950.00	53.16	49.13	97.12	-1,933.60	-747.39	604.61	505.09	99.52	6.075		
9,800.00	7,875.00	9,707.28	7,950.00	54.13	51.11	97.12	-1,933.71	-847.39	604.61	501.21	103.39	5.848		
9,900.00	7,875.00	9,807.28	7,950.00	55.55	53.17	97.12	-1,933.83	-947.39	604.61	497.21	107.39	5.630		
10,000.00	7,875.00	9,907.28	7,950.00	57.28	55.28	97.12	-1,933.94	-1,047.39	604.61	493.10	111.51	5.422		
10,100.00	7,875.00	10,007.28	7,950.00	59.21	57.44	97.12	-1,934.05	-1,147.39	604.61	488.88	115.72	5.225		
10,200.00	7,875.00	10,107.28	7,950.00	61.26	59.64	97.12	-1,934.17	-1,247.39	604.61	484.58	120.03	5.037		
10,300.00	7,875.00	10,207.28	7,950.00	63.38	61.88	97.12	-1,934.28	-1,347.39	604.61	480.19	124.41	4.860		
10,400.00	7,875.00	10,307.28	7,950.00	65.57	64.15	97.12	-1,934.40	-1,447.39	604.60	475.73	128.87	4.692		
10,500.00	7,875.00	10,407.28	7,950.00	67.80	66.46	97.12	-1,934.51	-1,547.39	604.60	471.21	133.39	4.532		
10,600.00	7,875.00	10,507.28	7,950.00	70.07	68.79	97.12	-1,934.63	-1,647.39	604.60	466.63	137.98	4.382		
10,700.00	7,875.00	10,607.28	7,950.00	72.37	71.14	97.12	-1,934.74	-1,747.39	604.60	461.99	142.61	4.240		
10,800.00	7,875.00	10,707.28	7,950.00	74.70	73.52	97.12	-1,934.85	-1,847.39	604.60	457.31	147.29	4.105		
10,900.00	7,875.00	10,807.28	7,950.00	77.06	75.92	97.12	-1,934.97	-1,947.39	604.60	452.58	152.02	3.977		
11,000.00	7,875.00	10,907.28	7,950.00	79.44	78.33	97.12	-1,935.08	-2,047.39	604.60	447.82	156.79	3.856		
11,100.00	7,875.00	11,007.28	7,950.00	81.84	80.76	97.12	-1,935.20	-2,147.39	604.60	443.01	161.59	3.742		
11,200.00	7,875.00	11,107.28	7,950.00	84.26	83.21	97.12	-1,935.31	-2,247.39	604.60	438.18	166.43	3.633		
11,300.00	7,875.00	11,207.28	7,950.00	86.69	85.67	97.12	-1,935.43	-2,347.39	604.60	433.31	171.29	3.530		
11,400.00	7,875.00	11,307.28	7,950.00	89.14	88.15	97.12	-1,935.54	-2,447.39	604.60	428.42	176.19	3.432		
11,500.00	7,875.00	11,407.28	7,950.00	91.60	90.63	97.12	-1,935.65	-2,547.39	604.60	423.50	181.10	3.338		
11,600.00	7,875.00	11,507.28	7,950.00	94.07	93.13	97.12	-1,935.77	-2,647.39	604.60	418.56	186.05	3.250		
11,700.00	7,875.00	11,607.28	7,950.00	96.56	95.64	97.12	-1,935.88	-2,747.39	604.60	413.59	191.01	3.165		
11,800.00	7,875.00	11,707.28	7,950.00	99.05	98.15	97.12	-1,936.00	-2,847.39	604.60	408.61	196.00	3.085		
11,900.00	7,875.00	11,807.28	7,950.00	101.56	100.68	97.12	-1,936.11	-2,947.39	604.60	403.60	201.00	3.008		
12,000.00	7,875.00	11,907.28	7,950.00	104.07	103.21	97.12	-1,936.23	-3,047.39	604.60	398.58	206.02	2.935		
12,100.00	7,875.00	12,007.28	7,950.00	106.60	105.75	97.12	-1,936.34	-3,147.39	604.60	393.55	211.06	2.865		
12,200.00	7,875.00	12,107.28	7,950.00	109.13	108.30	97.12	-1,936.45	-3,247.39	604.60	388.50	216.11	2.798		
12,300.00	7,875.00	12,207.28	7,950.00	111.66	110.85	97.12	-1,936.57	-3,347.39	604.60	383.43	221.17	2.734		
12,400.00	7,875.00	12,307.28	7,950.00	114.21	113.41	97.12	-1,936.68	-3,447.39	604.60	378.35	226.25	2.672		
12,500.00	7,875.00	12,407.28	7,950.00	116.76	115.98	97.12	-1,936.80	-3,547.39	604.60	373.26	231.34	2.613		
12,600.00	7,875.00	12,507.28	7,950.00	119.32	118.55	97.12	-1,936.91	-3,647.39	604.60	368.16	236.44	2.557		
12,700.00	7,875.00	12,607.28	7,950.00	121.88	121.13	97.12	-1,937.03	-3,747.39	604.60	363.05	241.55	2.503		
12,800.00	7,875.00	12,707.28	7,950.00	124.45	123.71	97.12	-1,937.14	-3,847.39	604.60	357.93	246.67	2.451		
12,900.00	7,875.00	12,807.28	7,950.00	127.02	126.30	97.12	-1,937.25	-3,947.39	604.60	352.80	251.80	2.401		
13,000.00	7,875.00	12,907.28	7,950.00	129.60	128.89	97.12	-1,937.37	-4,047.39	604.60	347.66	256.94	2.353		
13,100.00	7,875.00	13,007.28	7,950.00	132.18	131.48	97.12	-1,937.48	-4,147.39	604.60	342.51	262.09	2.307		
13,200.00	7,875.00	13,107.28	7,950.00	134.77	134.08	97.12	-1,937.60	-4,247.39	604.60	337.36	267.25	2.262		
13,300.00	7,875.00	13,207.28	7,950.00	137.36	136.68	97.12	-1,937.71	-4,347.39	604.60	332.19	272.41	2.219		
13,400.00	7,875.00	13,307.28	7,950.00	139.96	139.28	97.12	-1,937.82	-4,447.39	604.60	327.02	277.58	2.178		
13,500.00	7,875.00	13,407.28	7,950.00	142.55	141.89	97.12	-1,937.94	-4,547.39	604.60	321.85	282.76	2.138		
13,600.00	7,875.00	13,507.28	7,950.00	145.15	144.50	97.12	-1,938.05	-4,647.39	604.60	316.67	287.94	2.100		
13,700.00	7,875.00	13,607.28	7,950.00	147.76	147.12	97.12	-1,938.17	-4,747.39	604.60	311.48	293.13	2.063		
13,800.00	7,875.00	13,707.28	7,950.00	150.37	149.73	97.12	-1,938.28	-4,847.39	604.60	306.28	298.32	2.027		
13,900.00	7,875.00	13,807.28	7,950.00	152.98	152.35	97.12	-1,938.40	-4,947.39	604.60	301.08	303.52	1.992		
14,000.00	7,875.00	13,907.28	7,950.00	155.59	154.97	97.12	-1,938.51	-5,047.39	604.60	295.88	308.72	1.958		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 3CH - 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			
14,100.00	7,875.00	14,007.28	7,950.00	158.20	157.60	97.12	-1,938.62	-5,147.39	604.60	290.67	313.93	1.926			
14,200.00	7,875.00	14,107.28	7,950.00	160.82	160.22	97.12	-1,938.74	-5,247.39	604.60	285.46	319.15	1.894			
14,300.00	7,875.00	14,207.28	7,950.00	163.44	162.85	97.12	-1,938.85	-5,347.39	604.60	280.24	324.36	1.864			
14,400.00	7,875.00	14,307.28	7,950.00	166.06	165.48	97.12	-1,938.97	-5,447.39	604.60	275.02	329.59	1.834			
14,500.00	7,875.00	14,407.28	7,950.00	168.69	168.11	97.12	-1,939.08	-5,547.38	604.60	269.79	334.81	1.806			
14,600.00	7,875.00	14,507.28	7,950.00	171.32	170.75	97.12	-1,939.20	-5,647.38	604.60	264.56	340.04	1.778			
14,700.00	7,875.00	14,607.28	7,950.00	173.94	173.38	97.12	-1,939.31	-5,747.38	604.60	259.33	345.27	1.751			
14,800.00	7,875.00	14,707.28	7,950.00	176.57	176.02	97.12	-1,939.42	-5,847.38	604.60	254.09	350.51	1.725			
14,900.00	7,875.00	14,807.28	7,950.00	179.21	178.66	97.12	-1,939.54	-5,947.38	604.60	248.85	355.75	1.700			
15,000.00	7,875.00	14,907.28	7,950.00	181.84	181.30	97.12	-1,939.65	-6,047.38	604.60	243.61	360.99	1.675			
15,100.00	7,875.00	15,007.28	7,950.00	184.48	183.94	97.12	-1,939.77	-6,147.38	604.60	238.37	366.24	1.651			
15,200.00	7,875.00	15,107.28	7,950.00	187.11	186.58	97.12	-1,939.88	-6,247.38	604.60	233.12	371.49	1.628			
15,300.00	7,875.00	15,207.28	7,950.00	189.75	189.23	97.12	-1,940.00	-6,347.38	604.60	227.87	376.74	1.605			
15,400.00	7,875.00	15,307.28	7,950.00	192.39	191.87	97.12	-1,940.11	-6,447.38	604.60	222.61	381.99	1.583			
15,500.00	7,875.00	15,407.28	7,950.00	195.03	194.52	97.12	-1,940.22	-6,547.38	604.60	217.36	387.25	1.561			
15,600.00	7,875.00	15,507.28	7,950.00	197.67	197.17	97.12	-1,940.34	-6,647.38	604.60	212.10	392.51	1.540			
15,700.00	7,875.00	15,607.28	7,950.00	200.32	199.82	97.12	-1,940.45	-6,747.38	604.60	206.84	397.77	1.520			
15,800.00	7,875.00	15,707.28	7,950.00	202.96	202.47	97.12	-1,940.57	-6,847.38	604.60	201.57	403.03	1.500			
15,900.00	7,875.00	15,807.28	7,950.00	205.61	205.12	97.12	-1,940.68	-6,947.38	604.60	196.31	408.29	1.481	Level 3		
16,000.00	7,875.00	15,907.28	7,950.00	208.26	207.77	97.12	-1,940.80	-7,047.38	604.60	191.04	413.56	1.462	Level 3		
16,100.00	7,875.00	16,007.28	7,950.00	210.91	210.42	97.12	-1,940.91	-7,147.38	604.60	185.77	418.83	1.444	Level 3		
16,200.00	7,875.00	16,107.28	7,950.00	213.56	213.08	97.12	-1,941.02	-7,247.38	604.60	180.50	424.10	1.426	Level 3		
16,300.00	7,875.00	16,207.28	7,950.00	216.21	215.73	97.12	-1,941.14	-7,347.38	604.60	175.23	429.38	1.408	Level 3		
16,400.00	7,875.00	16,307.28	7,950.00	218.86	218.39	97.12	-1,941.25	-7,447.38	604.60	169.95	434.65	1.391	Level 3		
16,500.00	7,875.00	16,407.28	7,950.00	221.51	221.05	97.12	-1,941.37	-7,547.38	604.60	164.68	439.93	1.374	Level 3		
16,600.00	7,875.00	16,507.28	7,950.00	224.16	223.71	97.12	-1,941.48	-7,647.38	604.60	159.40	445.20	1.358	Level 3		
16,700.00	7,875.00	16,607.28	7,950.00	226.82	226.36	97.12	-1,941.60	-7,747.38	604.60	154.12	450.48	1.342	Level 3		
16,800.00	7,875.00	16,707.28	7,950.00	229.47	229.02	97.12	-1,941.71	-7,847.38	604.60	148.84	455.77	1.327	Level 3		
16,900.00	7,875.00	16,807.28	7,950.00	232.13	231.68	97.12	-1,941.82	-7,947.38	604.60	143.55	461.05	1.311	Level 3		
17,000.00	7,875.00	16,907.28	7,950.00	234.79	234.34	97.12	-1,941.94	-8,047.38	604.60	138.27	466.33	1.297	Level 3		
17,100.00	7,875.00	17,007.28	7,950.00	237.44	237.01	97.12	-1,942.05	-8,147.38	604.60	132.99	471.62	1.282	Level 3		
17,200.00	7,875.00	17,107.28	7,950.00	240.10	239.67	97.12	-1,942.17	-8,247.38	604.60	127.70	476.90	1.268	Level 3		
17,300.00	7,875.00	17,207.28	7,950.00	242.76	242.33	97.12	-1,942.28	-8,347.38	604.60	122.41	482.19	1.254	Level 3		
17,400.00	7,875.00	17,307.28	7,950.00	245.42	244.99	97.12	-1,942.39	-8,447.38	604.60	117.12	487.48	1.240	Level 2		
17,500.00	7,875.00	17,407.28	7,950.00	248.08	247.66	97.12	-1,942.51	-8,547.38	604.60	111.83	492.77	1.227	Level 2		
17,600.00	7,875.00	17,507.28	7,950.00	250.74	250.32	97.12	-1,942.62	-8,647.38	604.60	106.54	498.06	1.214	Level 2		
17,700.00	7,875.00	17,607.28	7,950.00	253.41	252.99	97.12	-1,942.74	-8,747.38	604.60	101.25	503.36	1.201	Level 2		
17,800.00	7,875.00	17,707.28	7,950.00	256.07	255.65	97.12	-1,942.85	-8,847.38	604.60	95.95	508.65	1.189	Level 2		
17,900.00	7,875.00	17,807.28	7,950.00	258.73	258.32	97.12	-1,942.97	-8,947.38	604.60	90.66	513.95	1.176	Level 2		
18,000.00	7,875.00	17,907.28	7,950.00	261.39	260.99	97.12	-1,943.08	-9,047.38	604.60	85.36	519.24	1.164	Level 2		
18,100.00	7,875.00	18,007.28	7,950.00	264.06	263.66	97.12	-1,943.19	-9,147.38	604.60	80.06	524.54	1.153	Level 2		
18,200.00	7,875.00	18,107.28	7,950.00	266.72	266.32	97.12	-1,943.31	-9,247.38	604.60	74.77	529.84	1.141	Level 2		
18,300.00	7,875.00	18,207.28	7,950.00	269.39	268.99	97.12	-1,943.42	-9,347.38	604.60	69.47	535.14	1.130	Level 2		
18,400.00	7,875.00	18,307.28	7,950.00	272.05	271.66	97.12	-1,943.54	-9,447.38	604.60	64.17	540.44	1.119	Level 2		
18,500.00	7,875.00	18,407.28	7,950.00	274.72	274.33	97.12	-1,943.65	-9,547.38	604.60	58.87	545.74	1.108	Level 2		
18,575.92	7,875.00	18,483.20	7,950.00	276.74	276.36	97.12	-1,943.74	-9,623.30	604.60	54.84	549.76	1.100	Level 2, 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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - LONE TREE 4-65 15-16 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			
0.00	0.00	0.00	0.00	0.00	0.00	179.68	-50.27	0.28	50.27						
100.00	100.00	100.00	100.00	0.13	0.13	179.68	-50.27	0.28	50.27	50.00	0.27	186.978			
200.00	200.00	200.00	200.00	0.49	0.49	179.68	-50.27	0.28	50.27	49.28	0.99	50.994			
250.00	250.00	250.00	250.00	0.67	0.67	179.68	-50.27	0.28	50.27	48.93	1.34	37.396 CC			
300.00	300.00	299.17	299.17	0.84	0.84	19.69	-50.67	0.40	50.27	48.59	1.68	29.845			
400.00	399.93	397.52	397.45	1.19	1.18	19.93	-53.91	1.37	50.28	47.92	2.36	21.332			
500.00	499.68	495.86	495.56	1.54	1.53	20.40	-60.37	3.30	50.30	47.25	3.05	16.500			
600.00	599.13	594.21	593.38	1.92	1.89	21.11	-70.06	6.18	50.33	46.58	3.75	13.418			
700.00	698.15	692.57	690.81	2.32	2.29	22.05	-82.96	10.03	50.39	45.93	4.47	11.284			
800.00	796.63	790.93	787.72	2.74	2.70	23.22	-99.06	14.84	50.49	45.29	5.20	9.717			
900.00	894.44	889.29	884.00	3.21	3.16	24.62	-118.34	20.59	50.63	44.68	5.95	8.513			
1,000.00	991.46	987.67	979.54	3.71	3.64	26.23	-140.78	27.28	50.83	44.10	6.73	7.556			
1,100.00	1,087.58	1,086.05	1,074.24	4.25	4.17	28.05	-166.35	34.90	51.11	43.56	7.54	6.774			
1,200.00	1,182.68	1,184.45	1,167.97	4.83	4.74	30.07	-195.02	43.46	51.48	43.07	8.42	6.115			
1,288.87	1,266.25	1,271.91	1,250.38	5.39	5.28	32.01	-223.09	51.83	51.91	42.66	9.25	5.611			
1,300.00	1,276.66	1,282.86	1,260.63	5.46	5.35	32.25	-226.77	52.93	51.99	42.63	9.36	5.555 ES			
1,400.00	1,370.15	1,381.25	1,352.07	6.12	6.01	33.35	-261.54	63.30	54.38	44.06	10.33	5.267			
1,500.00	1,463.65	1,479.56	1,442.16	6.80	6.72	32.69	-299.25	74.55	59.74	48.50	11.25	5.313			
1,600.00	1,557.15	1,579.33	1,533.00	7.48	7.47	31.52	-338.79	86.34	66.36	54.17	12.20	5.442			
1,700.00	1,650.64	1,679.10	1,623.85	8.16	8.22	30.56	-378.32	98.13	73.01	59.86	13.15	5.552			
1,800.00	1,744.14	1,778.87	1,714.69	8.85	8.99	29.77	-417.85	109.92	79.67	65.56	14.11	5.647			
1,900.00	1,837.64	1,878.65	1,805.54	9.55	9.76	29.10	-457.38	121.71	86.35	71.28	15.07	5.730			
2,000.00	1,931.13	1,978.42	1,896.38	10.24	10.54	28.52	-496.91	133.50	93.03	77.00	16.03	5.802			
2,100.00	2,024.63	2,078.19	1,987.23	10.94	11.32	28.02	-536.44	145.30	99.72	82.72	17.00	5.866			
2,200.00	2,118.12	2,177.96	2,078.07	11.64	12.11	27.59	-575.98	157.09	106.42	88.46	17.97	5.923			
2,300.00	2,211.62	2,277.74	2,168.92	12.35	12.89	27.20	-615.51	168.88	113.13	94.19	18.94	5.974			
2,400.00	2,305.12	2,377.51	2,259.76	13.05	13.68	26.86	-655.04	180.67	119.84	99.93	19.91	6.020			
2,500.00	2,398.61	2,477.28	2,350.60	13.75	14.47	26.56	-694.57	192.46	126.55	105.67	20.88	6.061			
2,600.00	2,492.11	2,577.05	2,441.45	14.46	15.26	26.28	-734.10	204.25	133.27	111.42	21.85	6.099			
2,700.00	2,585.61	2,676.83	2,532.29	15.17	16.05	26.03	-773.64	216.04	139.99	117.16	22.82	6.133			
2,800.00	2,679.10	2,776.60	2,623.14	15.87	16.85	25.81	-813.17	227.83	146.71	122.91	23.80	6.165			
2,900.00	2,772.60	2,876.37	2,713.98	16.58	17.64	25.60	-852.70	239.63	153.43	128.66	24.77	6.194			
3,000.00	2,866.10	2,976.14	2,804.83	17.29	18.44	25.42	-892.23	251.42	160.16	134.41	25.75	6.220			
3,100.00	2,959.59	3,075.91	2,895.67	18.00	19.24	25.24	-931.76	263.21	166.88	140.16	26.72	6.245			
3,200.00	3,053.09	3,175.69	2,986.51	18.71	20.03	25.08	-971.29	275.00	173.61	145.91	27.70	6.268			
3,300.00	3,146.59	3,275.46	3,077.36	19.42	20.83	24.94	-1,010.83	286.79	180.34	151.66	28.68	6.289			
3,400.00	3,240.08	3,375.23	3,168.20	20.13	21.63	24.80	-1,050.36	298.58	187.07	157.42	29.65	6.309			
3,500.00	3,333.58	3,475.00	3,259.05	20.84	22.43	24.67	-1,089.89	310.37	193.80	163.17	30.63	6.327			
3,600.00	3,427.08	3,574.78	3,349.89	21.55	23.22	24.55	-1,129.42	322.17	200.54	168.93	31.61	6.344			
3,700.00	3,520.57	3,674.55	3,440.74	22.26	24.02	24.44	-1,168.95	333.96	207.27	174.68	32.59	6.361			
3,800.00	3,614.07	3,774.32	3,531.58	22.97	24.82	24.34	-1,208.49	345.75	214.00	180.44	33.56	6.376			
3,900.00	3,707.57	3,874.09	3,622.43	23.69	25.62	24.24	-1,248.02	357.54	220.74	186.20	34.54	6.390			
4,000.00	3,801.06	3,973.86	3,713.27	24.40	26.42	24.15	-1,287.55	369.33	227.47	191.95	35.52	6.404			
4,100.00	3,894.56	4,073.64	3,804.11	25.11	27.22	24.06	-1,327.08	381.12	234.21	197.71	36.50	6.417			
4,200.00	3,988.05	4,173.41	3,894.96	25.82	28.02	23.98	-1,366.61	392.91	240.95	203.47	37.48	6.429			
4,300.00	4,081.55	4,273.18	3,985.80	26.53	28.82	23.90	-1,406.14	404.70	247.68	209.22	38.46	6.440			
4,400.00	4,175.05	4,372.95	4,076.65	27.25	29.63	23.83	-1,445.68	416.50	254.42	214.98	39.44	6.451			
4,500.00	4,268.54	4,472.73	4,167.49	27.96	30.43	23.76	-1,485.21	428.29	261.16	220.74	40.42	6.462			
4,600.00	4,362.04	4,572.50	4,258.34	28.67	31.23	23.69	-1,524.74	440.08	267.90	226.50	41.40	6.471			
4,700.00	4,455.54	4,672.27	4,349.18	29.38	32.03	23.63	-1,564.27	451.87	274.63	232.26	42.38	6.481			
4,800.00	4,549.03	4,772.04	4,440.03	30.10	32.83	23.57	-1,603.80	463.66	281.37	238.02	43.36	6.490			
4,900.00	4,642.53	4,871.82	4,530.87	30.81	33.63	23.51	-1,643.34	475.45	288.11	243.78	44.34	6.498			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
5,000.00	4,736.03	4,971.59	4,621.71	31.52	34.43	23.46	-1,682.87	487.24	294.85	249.53	45.32	6.507		
5,100.00	4,829.52	5,071.36	4,712.56	32.24	35.24	23.40	-1,722.40	499.03	301.59	255.29	46.30	6.514		
5,200.00	4,923.02	5,171.13	4,803.40	32.95	36.04	23.36	-1,761.93	510.83	308.33	261.05	47.28	6.522		
5,300.00	5,016.52	5,270.90	4,894.25	33.66	36.84	23.31	-1,801.46	522.62	315.07	266.81	48.26	6.529		
5,400.00	5,110.01	5,370.68	4,985.09	34.38	37.64	23.26	-1,840.99	534.41	321.81	272.57	49.24	6.536		
5,500.00	5,203.51	5,470.45	5,075.94	35.09	38.44	23.22	-1,880.53	546.20	328.55	278.33	50.22	6.542		
5,600.00	5,297.01	5,570.22	5,166.78	35.80	39.25	23.18	-1,920.06	557.99	335.29	284.09	51.20	6.549		
5,700.00	5,390.50	5,669.99	5,257.63	36.52	40.05	23.14	-1,959.59	569.78	342.03	289.85	52.18	6.555		
5,800.00	5,484.00	5,769.77	5,348.47	37.23	40.85	23.10	-1,999.12	581.57	348.77	295.61	53.16	6.561		
5,900.00	5,577.50	5,869.54	5,439.31	37.94	41.65	23.06	-2,038.65	593.37	355.51	301.37	54.14	6.566		
6,000.00	5,670.99	5,969.31	5,530.16	38.66	42.45	23.02	-2,078.19	605.16	362.26	307.13	55.12	6.572		
6,100.00	5,764.49	6,069.08	5,621.00	39.37	43.26	22.99	-2,117.72	616.95	369.00	312.89	56.10	6.577		
6,200.00	5,857.98	6,168.85	5,711.85	40.08	44.06	22.96	-2,157.25	628.74	375.74	318.65	57.08	6.582		
6,300.00	5,951.48	6,268.63	5,802.69	40.80	44.86	22.92	-2,196.78	640.53	382.48	324.41	58.07	6.587		
6,400.00	6,044.98	6,368.40	5,893.54	41.51	45.67	22.89	-2,236.31	652.32	389.22	330.18	59.05	6.592		
6,500.00	6,138.47	6,468.17	5,984.38	42.22	46.47	22.86	-2,275.84	664.11	395.96	335.94	60.03	6.596		
6,600.00	6,231.97	6,567.94	6,075.22	42.94	47.27	22.83	-2,315.38	675.90	402.71	341.70	61.01	6.601		
6,700.00	6,325.47	6,667.72	6,166.07	43.65	48.07	22.81	-2,354.91	687.70	409.45	347.46	61.99	6.605		
6,800.00	6,418.96	6,767.49	6,256.91	44.37	48.88	22.78	-2,394.44	699.49	416.19	353.22	62.97	6.609		
6,900.00	6,512.46	6,867.26	6,347.76	45.08	49.68	22.75	-2,433.97	711.28	422.93	358.98	63.95	6.613		
7,000.00	6,605.96	6,967.03	6,438.60	45.79	50.48	22.73	-2,473.50	723.07	429.67	364.74	64.93	6.617		
7,100.00	6,699.45	7,066.81	6,529.45	46.51	51.28	22.70	-2,513.04	734.86	436.42	370.50	65.92	6.621		
7,200.00	6,792.95	7,166.58	6,620.29	47.22	52.09	22.68	-2,552.57	746.65	443.16	376.26	66.90	6.625		
7,300.00	6,886.45	7,266.35	6,711.14	47.94	52.89	22.66	-2,592.10	758.44	449.90	382.02	67.88	6.628		
7,400.00	6,979.94	7,366.12	6,801.98	48.65	53.69	22.63	-2,631.63	770.24	456.64	387.78	68.86	6.632		
7,500.00	7,073.44	7,465.89	6,892.82	49.36	54.50	22.61	-2,671.16	782.03	463.39	393.55	69.84	6.635		
7,600.00	7,166.94	7,565.67	6,983.67	50.08	55.30	22.59	-2,710.69	793.82	470.13	399.31	70.82	6.638		
7,700.00	7,260.43	7,665.44	7,074.51	50.79	56.10	22.57	-2,750.23	805.61	476.87	405.07	71.80	6.641		
7,710.39	7,270.15	7,675.80	7,083.95	50.87	56.19	22.57	-2,754.33	806.83	477.57	405.67	71.91	6.642		
7,750.00	7,307.31	7,715.30	7,119.91	51.14	56.50	12.23	-2,769.98	811.50	480.15	407.96	72.19	6.651		
7,800.00	7,354.38	7,764.87	7,165.04	51.46	56.90	-2.07	-2,789.62	817.36	483.17	410.91	72.27	6.686		
7,850.00	7,401.31	7,813.77	7,209.57	51.75	57.30	-16.20	-2,809.00	823.14	486.06	414.01	72.05	6.746		
7,900.00	7,447.74	7,861.64	7,253.16	52.00	57.68	-28.86	-2,827.96	828.80	489.05	417.46	71.58	6.832		
7,950.00	7,493.32	7,908.10	7,295.46	52.22	58.06	-39.58	-2,846.37	834.29	492.46	421.51	70.95	6.941		
8,000.00	7,537.69	7,952.81	7,336.17	52.41	58.42	-48.50	-2,864.09	839.57	496.71	426.47	70.25	7.071		
8,050.00	7,580.52	7,997.00	7,376.43	52.57	58.77	-55.98	-2,881.61	844.60	502.24	432.60	69.64	7.212		
8,100.00	7,621.49	8,045.37	7,420.71	52.70	59.14	-62.41	-2,900.88	847.03	509.08	439.72	69.35	7.340		
8,150.00	7,660.28	8,096.48	7,467.52	52.81	59.50	-67.91	-2,921.26	845.16	517.08	447.69	69.39	7.451		
8,200.00	7,696.59	8,150.82	7,516.91	52.89	59.85	-72.70	-2,942.77	838.19	526.12	456.44	69.68	7.550		
8,250.00	7,730.16	8,209.00	7,568.86	52.95	60.17	-76.96	-2,965.40	825.11	536.02	465.93	70.08	7.648		
8,300.00	7,760.72	8,271.68	7,623.16	52.98	60.47	-80.78	-2,989.06	804.67	546.52	476.09	70.43	7.760		
8,350.00	7,788.05	8,339.65	7,679.32	53.00	60.74	-84.25	-3,013.54	775.36	557.33	486.80	70.53	7.902		
8,400.00	7,811.93	8,413.68	7,736.40	53.00	60.98	-87.41	-3,038.44	735.42	568.07	497.82	70.25	8.086		
8,450.00	7,832.18	8,494.49	7,792.75	52.99	61.16	-90.25	-3,063.03	683.07	578.30	508.76	69.54	8.316		
8,500.00	7,848.65	8,582.56	7,845.80	52.95	61.29	-92.72	-3,086.20	616.82	587.51	518.98	68.52	8.574		
8,550.00	7,861.21	8,677.84	7,891.97	52.91	61.36	-94.74	-3,106.39	536.09	595.15	527.58	67.58	8.807		
8,600.00	7,869.78	8,779.48	7,926.99	52.85	61.35	-96.20	-3,121.75	442.05	600.72	533.40	67.31	8.924		
8,650.00	7,874.27	8,885.67	7,946.72	52.78	61.28	-97.00	-3,130.46	338.24	603.76	535.42	68.34	8.835		
8,679.79	7,875.00	8,949.99	7,950.00	52.74	61.20	-97.13	-3,131.96	274.05	604.26	534.58	69.67	8.673		
8,684.40	7,875.00	8,684.40	7,949.66	52.73	61.61	-97.10	-3,131.80	282.95	604.21	536.27	67.94	8.893		
8,700.00	7,875.00	8,970.04	7,950.00	52.70	61.18	-97.13	-3,131.99	254.00	604.26	534.36	69.90	8.645		
8,800.00	7,875.00	9,070.04	7,950.00	52.56	61.06	-97.13	-3,132.10	154.00	604.26	533.02	71.24	8.482		

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

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
8,900.00	7,875.00	9,170.04	7,950.00	52.44	60.96	-97.13	-3,132.22	54.00	604.26	531.32	72.94	8.284		
9,000.00	7,875.00	9,270.04	7,950.00	52.34	60.87	-97.13	-3,132.34	-46.00	604.27	529.28	74.99	8.058		
9,100.00	7,875.00	9,370.04	7,950.00	52.27	60.81	-97.13	-3,132.46	-146.00	604.27	526.92	77.35	7.812		
9,200.00	7,875.00	9,470.04	7,950.00	52.22	60.77	-97.13	-3,132.58	-246.00	604.27	524.28	80.00	7.554		
9,300.00	7,875.00	9,570.04	7,950.00	52.20	60.76	-97.13	-3,132.69	-346.00	604.28	521.37	82.91	7.288		
9,400.00	7,875.00	9,670.04	7,950.00	52.24	60.77	-97.13	-3,132.81	-446.00	604.28	518.23	86.05	7.022		
9,500.00	7,875.00	9,770.04	7,950.00	52.35	60.83	-97.13	-3,132.93	-546.00	604.29	514.88	89.41	6.759		
9,600.00	7,875.00	9,870.04	7,950.00	52.62	60.95	-97.13	-3,133.05	-646.00	604.29	511.34	92.95	6.501		
9,700.00	7,875.00	9,970.04	7,950.00	53.16	61.13	-97.13	-3,133.17	-746.00	604.29	507.64	96.66	6.252		
9,800.00	7,875.00	10,070.04	7,950.00	54.13	61.43	-97.13	-3,133.28	-846.00	604.30	503.79	100.51	6.012		
9,900.00	7,875.00	10,170.04	7,950.00	55.55	61.90	-97.13	-3,133.40	-946.00	604.30	499.80	104.50	5.783		
10,000.00	7,875.00	10,270.04	7,950.00	57.28	62.60	-97.13	-3,133.52	-1,046.00	604.30	495.70	108.60	5.564		
10,100.00	7,875.00	10,370.04	7,950.00	59.21	63.59	-97.13	-3,133.64	-1,146.00	604.31	491.50	112.81	5.357		
10,200.00	7,875.00	10,470.04	7,950.00	61.26	64.90	-97.13	-3,133.75	-1,246.00	604.31	487.20	117.11	5.160		
10,300.00	7,875.00	10,570.04	7,950.00	63.38	66.48	-97.13	-3,133.87	-1,346.00	604.31	482.82	121.49	4.974		
10,400.00	7,875.00	10,670.04	7,950.00	65.57	68.28	-97.13	-3,133.99	-1,446.00	604.32	478.37	125.95	4.798		
10,500.00	7,875.00	10,770.04	7,950.00	67.80	70.22	-97.13	-3,134.11	-1,546.00	604.32	473.84	130.48	4.632		
10,600.00	7,875.00	10,870.04	7,950.00	70.07	72.28	-97.13	-3,134.23	-1,646.00	604.33	469.26	135.06	4.474		
10,700.00	7,875.00	10,970.04	7,950.00	72.37	74.41	-97.13	-3,134.34	-1,746.00	604.33	464.63	139.70	4.326		
10,800.00	7,875.00	11,070.04	7,950.00	74.70	76.61	-97.13	-3,134.46	-1,845.99	604.33	459.94	144.39	4.185		
10,900.00	7,875.00	11,170.04	7,950.00	77.06	78.86	-97.13	-3,134.58	-1,945.99	604.34	455.21	149.12	4.053		
11,000.00	7,875.00	11,270.04	7,950.00	79.44	81.14	-97.13	-3,134.70	-2,045.99	604.34	450.44	153.90	3.927		
11,100.00	7,875.00	11,370.04	7,950.00	81.84	83.46	-97.13	-3,134.82	-2,145.99	604.34	445.64	158.71	3.808		
11,200.00	7,875.00	11,470.04	7,950.00	84.26	85.81	-97.13	-3,134.93	-2,245.99	604.35	440.80	163.55	3.695		
11,300.00	7,875.00	11,570.04	7,950.00	86.69	88.18	-97.13	-3,135.05	-2,345.99	604.35	435.93	168.43	3.588		
11,400.00	7,875.00	11,670.04	7,950.00	89.14	90.57	-97.13	-3,135.17	-2,445.99	604.35	431.03	173.33	3.487		
11,500.00	7,875.00	11,770.04	7,950.00	91.60	92.98	-97.13	-3,135.29	-2,545.99	604.36	426.10	178.25	3.390		
11,600.00	7,875.00	11,870.04	7,950.00	94.07	95.41	-97.13	-3,135.41	-2,645.99	604.36	421.16	183.21	3.299		
11,700.00	7,875.00	11,970.04	7,950.00	96.56	97.85	-97.13	-3,135.52	-2,745.99	604.37	416.19	188.18	3.212		
11,800.00	7,875.00	12,070.04	7,950.00	99.05	100.31	-97.13	-3,135.64	-2,845.99	604.37	411.20	193.17	3.129		
11,900.00	7,875.00	12,170.04	7,950.00	101.56	102.78	-97.13	-3,135.76	-2,945.99	604.37	406.19	198.18	3.050		
12,000.00	7,875.00	12,270.04	7,950.00	104.07	105.26	-97.13	-3,135.88	-3,045.99	604.38	401.17	203.21	2.974		
12,100.00	7,875.00	12,370.04	7,950.00	106.60	107.75	-97.13	-3,135.99	-3,145.99	604.38	396.12	208.26	2.902		
12,200.00	7,875.00	12,470.04	7,950.00	109.13	110.25	-97.13	-3,136.11	-3,245.99	604.38	391.07	213.32	2.833		
12,300.00	7,875.00	12,570.04	7,950.00	111.66	112.77	-97.13	-3,136.23	-3,345.99	604.39	386.00	218.39	2.767		
12,400.00	7,875.00	12,670.04	7,950.00	114.21	115.28	-97.13	-3,136.35	-3,445.99	604.39	380.92	223.47	2.705		
12,500.00	7,875.00	12,770.04	7,950.00	116.76	117.81	-97.13	-3,136.47	-3,545.99	604.39	375.82	228.57	2.644		
12,600.00	7,875.00	12,870.04	7,950.00	119.32	120.35	-97.13	-3,136.58	-3,645.99	604.40	370.72	233.68	2.586		
12,700.00	7,875.00	12,970.04	7,950.00	121.88	122.89	-97.13	-3,136.70	-3,745.99	604.40	365.60	238.80	2.531		
12,800.00	7,875.00	13,070.04	7,950.00	124.45	125.43	-97.13	-3,136.82	-3,845.99	604.41	360.48	243.93	2.478		
12,900.00	7,875.00	13,170.04	7,950.00	127.02	127.99	-97.13	-3,136.94	-3,945.99	604.41	355.34	249.07	2.427		
13,000.00	7,875.00	13,270.04	7,950.00	129.60	130.55	-97.13	-3,137.06	-4,045.99	604.41	350.20	254.21	2.378		
13,100.00	7,875.00	13,370.04	7,950.00	132.18	133.11	-97.13	-3,137.17	-4,145.99	604.42	345.05	259.37	2.330		
13,200.00	7,875.00	13,470.04	7,950.00	134.77	135.68	-97.13	-3,137.29	-4,245.99	604.42	339.89	264.53	2.285		
13,300.00	7,875.00	13,570.04	7,950.00	137.36	138.25	-97.13	-3,137.41	-4,345.99	604.42	334.72	269.70	2.241		
13,400.00	7,875.00	13,670.04	7,950.00	139.96	140.83	-97.13	-3,137.53	-4,445.99	604.43	329.55	274.88	2.199		
13,500.00	7,875.00	13,770.04	7,950.00	142.55	143.41	-97.13	-3,137.64	-4,545.99	604.43	324.37	280.06	2.158		
13,600.00	7,875.00	13,870.04	7,950.00	145.15	146.00	-97.13	-3,137.76	-4,645.99	604.43	319.18	285.25	2.119		
13,700.00	7,875.00	13,970.04	7,950.00	147.76	148.59	-97.13	-3,137.88	-4,745.99	604.44	313.99	290.45	2.081		
13,800.00	7,875.00	14,070.04	7,950.00	150.37	151.18	-97.13	-3,138.00	-4,845.99	604.44	308.79	295.65	2.044		
13,900.00	7,875.00	14,170.04	7,950.00	152.98	153.78	-97.13	-3,138.12	-4,945.99	604.45	303.59	300.85	2.009		
14,000.00	7,875.00	14,270.04	7,950.00	155.59	156.38	-97.13	-3,138.23	-5,045.99	604.45	298.39	306.06	1.975		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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			
14,100.00	7,875.00	14,370.04	7,950.00	158.20	158.98	-97.13	-3,138.35	-5,145.99	604.45	293.17	311.28	1.942			
14,200.00	7,875.00	14,470.04	7,950.00	160.82	161.59	-97.13	-3,138.47	-5,245.99	604.46	287.96	316.50	1.910			
14,300.00	7,875.00	14,570.04	7,950.00	163.44	164.19	-97.13	-3,138.59	-5,345.99	604.46	282.74	321.72	1.879			
14,400.00	7,875.00	14,670.04	7,950.00	166.06	166.81	-97.13	-3,138.71	-5,445.99	604.46	277.51	326.95	1.849			
14,500.00	7,875.00	14,770.04	7,950.00	168.69	169.42	-97.13	-3,138.82	-5,545.99	604.47	272.28	332.18	1.820			
14,600.00	7,875.00	14,870.04	7,950.00	171.32	172.03	-97.13	-3,138.94	-5,645.99	604.47	267.05	337.42	1.791			
14,700.00	7,875.00	14,970.04	7,950.00	173.94	174.65	-97.13	-3,139.06	-5,745.99	604.47	261.82	342.66	1.764			
14,800.00	7,875.00	15,070.04	7,950.00	176.57	177.27	-97.13	-3,139.18	-5,845.99	604.48	256.58	347.90	1.738			
14,900.00	7,875.00	15,170.04	7,950.00	179.21	179.90	-97.13	-3,139.30	-5,945.99	604.48	251.34	353.14	1.712			
15,000.00	7,875.00	15,270.04	7,950.00	181.84	182.52	-97.13	-3,139.41	-6,045.99	604.49	246.09	358.39	1.687			
15,100.00	7,875.00	15,370.04	7,950.00	184.48	185.15	-97.13	-3,139.53	-6,145.99	604.49	240.85	363.64	1.662			
15,200.00	7,875.00	15,470.04	7,950.00	187.11	187.77	-97.13	-3,139.65	-6,245.99	604.49	235.60	368.90	1.639			
15,300.00	7,875.00	15,570.04	7,950.00	189.75	190.40	-97.13	-3,139.77	-6,345.99	604.50	230.34	374.15	1.616			
15,400.00	7,875.00	15,670.04	7,950.00	192.39	193.04	-97.13	-3,139.88	-6,445.99	604.50	225.09	379.41	1.593			
15,500.00	7,875.00	15,770.04	7,950.00	195.03	195.67	-97.13	-3,140.00	-6,545.99	604.50	219.83	384.67	1.571			
15,600.00	7,875.00	15,870.04	7,950.00	197.67	198.30	-97.13	-3,140.12	-6,645.99	604.51	214.57	389.94	1.550			
15,700.00	7,875.00	15,970.04	7,950.00	200.32	200.94	-97.13	-3,140.24	-6,745.99	604.51	209.31	395.21	1.530			
15,800.00	7,875.00	16,070.04	7,950.00	202.96	203.58	-97.13	-3,140.36	-6,845.99	604.51	204.04	400.47	1.509			
15,900.00	7,875.00	16,170.04	7,950.00	205.61	206.22	-97.13	-3,140.47	-6,945.99	604.52	198.77	405.74	1.490	Level 3		
16,000.00	7,875.00	16,270.04	7,950.00	208.26	208.86	-97.13	-3,140.59	-7,045.99	604.52	193.51	411.02	1.471	Level 3		
16,100.00	7,875.00	16,370.04	7,950.00	210.91	211.50	-97.13	-3,140.71	-7,145.99	604.53	188.23	416.29	1.452	Level 3		
16,200.00	7,875.00	16,470.04	7,950.00	213.56	214.14	-97.13	-3,140.83	-7,245.99	604.53	182.96	421.57	1.434	Level 3		
16,300.00	7,875.00	16,570.04	7,950.00	216.21	216.78	-97.13	-3,140.95	-7,345.99	604.53	177.69	426.85	1.416	Level 3		
16,400.00	7,875.00	16,670.04	7,950.00	218.86	219.43	-97.13	-3,141.06	-7,445.99	604.54	172.41	432.12	1.399	Level 3		
16,500.00	7,875.00	16,770.04	7,950.00	221.51	222.08	-97.13	-3,141.18	-7,545.99	604.54	167.13	437.41	1.382	Level 3		
16,600.00	7,875.00	16,870.04	7,950.00	224.16	224.72	-97.13	-3,141.30	-7,645.99	604.54	161.85	442.69	1.366	Level 3		
16,700.00	7,875.00	16,970.04	7,950.00	226.82	227.37	-97.13	-3,141.42	-7,745.99	604.55	156.57	447.97	1.350	Level 3		
16,800.00	7,875.00	17,070.04	7,950.00	229.47	230.02	-97.13	-3,141.53	-7,845.99	604.55	151.29	453.26	1.334	Level 3		
16,900.00	7,875.00	17,170.04	7,950.00	232.13	232.67	-97.13	-3,141.65	-7,945.99	604.55	146.01	458.55	1.318	Level 3		
17,000.00	7,875.00	17,270.04	7,950.00	234.79	235.32	-97.13	-3,141.77	-8,045.99	604.56	140.72	463.84	1.303	Level 3		
17,100.00	7,875.00	17,370.04	7,950.00	237.44	237.97	-97.13	-3,141.89	-8,145.99	604.56	135.43	469.13	1.289	Level 3		
17,200.00	7,875.00	17,470.04	7,950.00	240.10	240.63	-97.13	-3,142.01	-8,245.99	604.57	130.15	474.42	1.274	Level 3		
17,300.00	7,875.00	17,570.04	7,950.00	242.76	243.28	-97.13	-3,142.12	-8,345.99	604.57	124.86	479.71	1.260	Level 3		
17,400.00	7,875.00	17,670.04	7,950.00	245.42	245.93	-97.13	-3,142.24	-8,445.99	604.57	119.57	485.00	1.247	Level 2		
17,500.00	7,875.00	17,770.04	7,950.00	248.08	248.59	-97.13	-3,142.36	-8,545.99	604.58	114.28	490.30	1.233	Level 2		
17,600.00	7,875.00	17,870.04	7,950.00	250.74	251.25	-97.13	-3,142.48	-8,645.99	604.58	108.98	495.60	1.220	Level 2		
17,700.00	7,875.00	17,970.04	7,950.00	253.41	253.90	-97.13	-3,142.60	-8,745.99	604.58	103.69	500.89	1.207	Level 2		
17,800.00	7,875.00	18,070.04	7,950.00	256.07	256.56	-97.13	-3,142.71	-8,845.99	604.59	98.40	506.19	1.194	Level 2		
17,900.00	7,875.00	18,170.04	7,950.00	258.73	259.22	-97.13	-3,142.83	-8,945.99	604.59	93.10	511.49	1.182	Level 2		
18,000.00	7,875.00	18,270.04	7,950.00	261.39	261.88	-97.13	-3,142.95	-9,045.99	604.59	87.80	516.79	1.170	Level 2		
18,100.00	7,875.00	18,370.04	7,950.00	264.06	264.54	-97.13	-3,143.07	-9,145.99	604.60	82.50	522.09	1.158	Level 2		
18,200.00	7,875.00	18,470.04	7,950.00	266.72	267.20	-97.13	-3,143.19	-9,245.99	604.60	77.21	527.40	1.146	Level 2		
18,300.00	7,875.00	18,570.04	7,950.00	269.39	269.86	-97.13	-3,143.30	-9,345.99	604.60	71.91	532.70	1.135	Level 2		
18,400.00	7,875.00	18,670.04	7,950.00	272.05	272.52	-97.13	-3,143.42	-9,445.99	604.61	66.61	538.00	1.124	Level 2		
18,500.00	7,875.00	18,770.04	7,950.00	274.72	275.18	-97.13	-3,143.54	-9,545.99	604.61	61.30	543.31	1.113	Level 2		
18,575.92	7,875.00	18,845.95	7,950.00	276.74	277.20	-97.13	-3,143.63	-9,621.91	604.61	57.28	547.34	1.105	Level 2, 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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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	5.30	5.30	0.00	0.01	-0.07	224.75	-0.28	224.75					
100.00	100.00	105.30	105.30	0.13	0.15	-0.07	224.75	-0.28	224.75	224.47	0.29	780.792		
200.00	200.00	205.30	205.30	0.49	0.51	-0.07	224.75	-0.28	224.75	223.75	1.00	223.681		
206.36	206.36	211.66	211.66	0.52	0.53	-0.07	224.75	-0.28	224.75	223.70	1.05	213.975 CC		
250.00	250.00	254.93	254.93	0.67	0.69	-0.07	224.76	-0.28	224.76	223.40	1.36	165.022 ES		
300.00	300.00	301.46	301.45	0.84	0.86	-160.08	225.19	-0.14	225.63	223.93	1.70	132.566		
400.00	399.93	394.21	394.15	1.19	1.19	-160.06	228.20	0.86	232.15	229.77	2.39	97.318		
500.00	499.68	486.12	485.86	1.54	1.53	-160.04	233.98	2.78	244.98	241.90	3.08	79.487		
600.00	599.13	576.67	575.96	1.92	1.86	-160.00	242.41	5.57	264.03	260.25	3.78	69.887		
700.00	698.15	665.34	663.89	2.32	2.21	-159.94	253.28	9.17	289.16	284.70	4.47	64.711		
800.00	796.63	755.34	752.77	2.74	2.57	-159.88	266.71	13.63	320.01	314.84	5.16	61.958		
900.00	894.44	849.21	845.39	3.21	2.96	-159.95	281.18	18.42	354.44	348.56	5.88	60.246		
1,000.00	991.46	941.86	936.81	3.71	3.36	-160.12	295.46	23.15	391.95	385.34	6.60	59.341		
1,100.00	1,087.58	1,033.20	1,026.93	4.25	3.75	-160.36	309.54	27.82	432.50	425.18	7.32	59.052		
1,200.00	1,182.68	1,123.10	1,115.64	4.83	4.14	-160.63	323.39	32.41	476.07	468.02	8.05	59.158		
1,288.87	1,266.25	1,201.71	1,193.21	5.39	4.48	-160.89	335.51	36.43	517.30	508.61	8.69	59.524		
1,300.00	1,276.66	1,211.47	1,202.84	5.46	4.52	-160.96	337.01	36.93	522.61	513.83	8.78	59.548		
1,400.00	1,370.15	1,300.79	1,289.41	6.12	4.91	-161.54	350.54	41.41	570.34	560.85	9.49	60.089		
1,500.00	1,463.65	1,386.94	1,375.99	6.80	5.28	-162.03	364.06	45.89	618.11	607.91	10.20	60.599		
1,600.00	1,557.15	1,474.68	1,462.56	7.48	5.67	-162.45	377.58	50.37	665.92	655.00	10.92	60.988		
1,700.00	1,650.64	1,562.42	1,549.13	8.16	6.05	-162.81	391.10	54.85	713.74	702.10	11.64	61.313		
1,800.00	1,744.14	1,650.15	1,635.70	8.85	6.44	-163.13	404.62	59.34	761.59	749.22	12.37	61.587		
1,900.00	1,837.64	1,737.89	1,722.28	9.55	6.82	-163.42	418.15	63.82	809.45	796.36	13.09	61.820		
2,000.00	1,931.13	1,825.63	1,808.85	10.24	7.21	-163.67	431.67	68.30	857.33	843.50	13.82	62.022		
2,100.00	2,024.63	1,913.36	1,895.42	10.94	7.59	-163.89	445.19	72.78	905.21	890.66	14.55	62.196		
2,200.00	2,118.12	2,001.10	1,981.99	11.64	7.98	-164.09	458.71	77.26	953.11	937.82	15.29	62.349		
2,300.00	2,211.62	2,088.84	2,068.57	12.35	8.37	-164.27	472.23	81.74	1,001.01	984.99	16.02	62.483		
2,400.00	2,305.12	2,176.57	2,155.14	13.05	8.75	-164.44	485.76	86.23	1,048.93	1,032.17	16.76	62.602		
2,500.00	2,398.61	2,264.31	2,241.71	13.75	9.14	-164.59	499.28	90.71	1,096.84	1,079.35	17.49	62.707		
2,600.00	2,492.11	2,352.05	2,328.28	14.46	9.53	-164.73	512.80	95.19	1,144.77	1,126.54	18.23	62.802		
2,700.00	2,585.61	2,439.78	2,414.86	15.17	9.92	-164.85	526.32	99.67	1,192.69	1,173.73	18.97	62.886		
2,800.00	2,679.10	2,527.52	2,501.43	15.87	10.30	-164.97	539.85	104.15	1,240.63	1,220.92	19.70	62.962		
2,900.00	2,772.60	2,615.26	2,588.00	16.58	10.69	-165.08	553.37	108.64	1,288.56	1,268.12	20.44	63.031		
3,000.00	2,866.10	2,702.99	2,674.57	17.29	11.08	-165.18	566.89	113.12	1,336.50	1,315.32	21.18	63.094		
3,100.00	2,959.59	2,809.27	2,761.15	18.00	11.55	-165.27	580.41	117.60	1,384.44	1,362.45	22.00	62.943		
3,200.00	3,053.09	2,878.47	2,847.72	18.71	11.86	-165.36	593.93	122.08	1,432.39	1,409.73	22.66	63.202		
3,300.00	3,146.59	2,966.20	2,934.29	19.42	12.24	-165.44	607.46	126.56	1,480.34	1,456.93	23.40	63.250		
3,400.00	3,240.08	3,053.94	3,020.86	20.13	12.63	-165.52	620.98	131.04	1,528.29	1,504.14	24.15	63.293		
3,500.00	3,333.58	3,141.68	3,107.44	20.84	13.02	-165.59	634.50	135.53	1,576.24	1,551.35	24.89	63.333		
3,600.00	3,427.08	3,229.41	3,194.01	21.55	13.41	-165.66	648.02	140.01	1,624.19	1,598.56	25.63	63.369		
3,700.00	3,520.57	3,317.15	3,280.58	22.26	13.80	-165.72	661.55	144.49	1,672.14	1,645.77	26.37	63.403		
3,800.00	3,614.07	3,404.89	3,367.15	22.97	14.19	-165.78	675.07	148.97	1,720.10	1,692.98	27.12	63.434		
3,900.00	3,707.57	3,507.38	3,453.73	23.69	14.64	-165.84	688.59	153.45	1,768.06	1,740.14	27.92	63.332		
4,000.00	3,801.06	3,580.36	3,540.30	24.40	14.96	-165.90	702.11	157.94	1,816.02	1,787.41	28.60	63.489		
4,100.00	3,894.56	3,668.10	3,626.87	25.11	15.35	-165.95	715.63	162.42	1,863.98	1,834.63	29.35	63.513		
4,200.00	3,988.05	3,755.83	3,713.44	25.82	15.74	-166.00	729.16	166.90	1,911.94	1,881.85	30.09	63.536		
4,300.00	4,081.55	3,843.57	3,800.02	26.53	16.13	-166.04	742.68	171.38	1,959.90	1,929.06	30.84	63.557		
4,400.00	4,175.05	3,931.31	3,886.59	27.25	16.52	-166.09	756.20	175.86	2,007.86	1,976.28	31.58	63.576		
4,500.00	4,268.54	4,019.04	3,973.16	27.96	16.91	-166.13	769.72	180.34	2,055.83	2,023.50	32.33	63.594		
4,600.00	4,362.04	4,106.78	4,059.73	28.67	17.29	-166.17	783.25	184.83	2,103.79	2,070.72	33.07	63.611		
4,700.00	4,455.54	4,205.48	4,146.31	29.38	17.73	-166.21	796.77	189.31	2,151.76	2,117.90	33.86	63.546		
4,800.00	4,549.03	4,282.25	4,232.88	30.10	18.07	-166.24	810.29	193.79	2,199.73	2,165.16	34.56	63.641		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
4,900.00	4,642.53	4,369.99	4,319.45	30.81	18.46	-166.28	823.81	198.27	2,247.69	2,212.38	35.31	63.654			
5,000.00	4,736.03	4,457.73	4,406.02	31.52	18.85	-166.31	837.33	202.75	2,295.66	2,259.60	36.06	63.666			
5,100.00	4,829.52	4,545.46	4,492.60	32.24	19.24	-166.34	850.86	207.24	2,343.63	2,306.82	36.80	63.677			
5,200.00	4,923.02	4,633.20	4,579.17	32.95	19.63	-166.38	864.38	211.72	2,391.60	2,354.04	37.55	63.688			
5,300.00	5,016.52	4,720.94	4,665.74	33.66	20.01	-166.40	877.90	216.20	2,439.57	2,401.27	38.30	63.697			
5,400.00	5,110.01	4,808.67	4,752.31	34.38	20.40	-166.43	891.42	220.68	2,487.54	2,448.49	39.05	63.706			
5,500.00	5,203.51	4,903.59	4,838.89	35.09	20.82	-166.46	904.95	225.16	2,535.51	2,495.68	39.82	63.669			
5,600.00	5,297.01	4,984.15	4,925.46	35.80	21.18	-166.49	918.47	229.64	2,583.48	2,542.93	40.54	63.721			
5,700.00	5,390.50	5,071.88	5,012.03	36.52	21.57	-166.51	931.99	234.13	2,631.45	2,590.16	41.29	63.728			
5,800.00	5,484.00	5,159.62	5,098.60	37.23	21.96	-166.54	945.51	238.61	2,679.42	2,637.38	42.04	63.734			
5,900.00	5,577.50	5,247.36	5,185.18	37.94	22.35	-166.56	959.03	243.09	2,727.39	2,684.60	42.79	63.739			
6,000.00	5,670.99	5,335.09	5,271.75	38.66	22.74	-166.58	972.56	247.57	2,775.36	2,731.82	43.54	63.744			
6,100.00	5,764.49	5,422.83	5,358.32	39.37	23.13	-166.61	986.08	252.05	2,823.34	2,779.05	44.29	63.748			
6,200.00	5,857.98	5,510.57	5,444.89	40.08	23.51	-166.63	999.60	256.54	2,871.31	2,826.27	45.04	63.752			
6,300.00	5,951.48	5,601.70	5,531.47	40.80	23.92	-166.65	1,013.12	261.02	2,919.28	2,873.48	45.80	63.757			
6,400.00	6,044.98	5,686.04	5,618.04	41.51	24.29	-166.67	1,026.65	265.50	2,967.26	2,920.72	46.54	63.759			
6,500.00	6,138.47	5,773.78	5,704.61	42.22	24.68	-166.69	1,040.17	269.98	3,015.23	2,967.94	47.29	63.761			
6,600.00	6,231.97	5,861.52	5,791.18	42.94	25.07	-166.71	1,053.69	274.46	3,063.20	3,015.16	48.04	63.763			
6,700.00	6,325.47	5,949.25	5,877.76	43.65	25.46	-166.73	1,067.21	278.94	3,111.18	3,062.39	48.79	63.765			
6,800.00	6,418.96	6,036.99	5,964.33	44.37	25.85	-166.74	1,080.73	283.43	3,159.15	3,109.61	49.54	63.766			
6,900.00	6,512.46	6,124.73	6,050.90	45.08	26.24	-166.76	1,094.26	287.91	3,207.13	3,156.83	50.29	63.767			
7,000.00	6,605.96	6,212.46	6,137.47	45.79	26.63	-166.78	1,107.78	292.39	3,255.10	3,204.05	51.05	63.767			
7,100.00	6,699.45	6,300.20	6,224.05	46.51	27.02	-166.79	1,121.30	296.87	3,303.08	3,251.28	51.80	63.767			
7,200.00	6,792.95	6,387.94	6,310.62	47.22	27.40	-166.81	1,134.82	301.35	3,351.05	3,298.50	52.55	63.767			
7,300.00	6,886.45	6,475.67	6,397.19	47.94	27.79	-166.82	1,148.35	305.84	3,399.03	3,345.72	53.30	63.766			
7,400.00	6,979.94	6,563.41	6,483.76	48.65	28.18	-166.84	1,161.87	310.32	3,447.00	3,392.95	54.06	63.765			
7,500.00	7,073.44	6,651.15	6,570.34	49.36	28.57	-166.85	1,175.39	314.80	3,494.98	3,440.17	54.81	63.764			
7,600.00	7,166.94	6,738.88	6,656.91	50.08	28.96	-166.87	1,188.91	319.28	3,542.95	3,487.39	55.56	63.763			
7,700.00	7,260.43	6,826.62	6,743.48	50.79	29.35	-166.88	1,202.43	323.76	3,590.93	3,534.61	56.32	63.761			
7,710.39	7,270.15	6,835.73	6,752.48	50.87	29.39	-166.88	1,203.84	324.23	3,595.92	3,539.52	56.40	63.761			
7,750.00	7,307.31	6,870.54	6,786.81	51.14	29.54	-179.42	1,209.20	326.01	3,614.79	3,558.10	56.69	63.763			
7,800.00	7,354.38	6,914.42	6,830.12	51.46	29.74	164.13	1,215.97	328.25	3,638.14	3,581.09	57.05	63.772			
7,850.00	7,401.31	6,957.95	6,873.07	51.75	29.93	148.53	1,222.68	330.47	3,660.82	3,603.43	57.39	63.790			
7,900.00	7,447.74	7,000.79	6,915.34	52.00	30.12	135.03	1,229.28	332.66	3,682.69	3,624.98	57.71	63.815			
7,950.00	7,493.32	7,042.61	6,956.61	52.22	30.31	123.99	1,235.72	334.80	3,703.63	3,645.62	58.01	63.845			
8,000.00	7,537.69	7,083.10	6,996.56	52.41	30.49	115.19	1,241.96	336.86	3,723.53	3,665.24	58.29	63.879			
8,050.00	7,580.52	7,121.95	7,034.89	52.57	30.66	108.19	1,247.95	338.85	3,742.32	3,683.76	58.55	63.915			
8,100.00	7,621.49	7,158.85	7,071.31	52.70	30.82	102.59	1,253.64	340.73	3,759.91	3,701.11	58.80	63.949			
8,150.00	7,660.28	7,193.54	7,105.54	52.81	30.98	98.08	1,258.99	342.51	3,776.25	3,717.23	59.02	63.977			
8,200.00	7,696.59	7,225.75	7,137.32	52.89	31.12	94.41	1,263.95	344.15	3,791.31	3,732.07	59.24	63.996			
8,250.00	7,730.16	7,255.23	7,166.41	52.95	31.25	91.41	1,268.49	345.66	3,805.05	3,745.59	59.45	63.999			
8,300.00	7,760.72	7,281.76	7,192.58	52.98	31.37	88.95	1,272.58	347.01	3,817.44	3,757.77	59.66	63.982			
8,350.00	7,788.05	7,305.13	7,215.65	53.00	31.47	86.94	1,276.18	348.21	3,828.46	3,768.59	59.88	63.937			
8,400.00	7,811.93	7,325.17	7,235.42	53.00	31.56	85.29	1,279.27	349.23	3,838.11	3,778.01	60.10	63.860			
8,450.00	7,832.18	7,341.73	7,251.76	52.99	31.63	83.97	1,281.82	350.08	3,846.38	3,786.04	60.34	63.747			
8,500.00	7,848.65	7,354.68	7,264.53	52.95	31.69	82.92	1,283.82	350.74	3,853.25	3,792.66	60.59	63.594			
8,550.00	7,861.21	7,363.92	7,273.65	52.91	31.73	82.11	1,285.24	351.21	3,858.72	3,797.85	60.86	63.399			
8,600.00	7,869.78	7,369.38	7,279.04	52.85	31.76	81.54	1,286.09	351.49	3,862.77	3,801.62	61.16	63.162			
8,650.00	7,874.27	7,371.01	7,280.65	52.78	31.76	81.18	1,286.34	351.57	3,865.41	3,803.94	61.47	62.887			
8,679.79	7,875.00	7,370.17	7,279.82	52.74	31.76	81.06	1,286.21	351.53	3,866.30	3,804.64	61.66	62.707			
8,700.00	7,875.00	7,369.13	7,278.79	52.70	31.76	81.05	1,286.05	351.48	3,866.78	3,804.99	61.79	62.578			
8,800.00	7,875.00	7,364.00	7,273.74	52.56	31.73	80.97	1,285.26	351.21	3,870.72	3,808.17	62.55	61.882			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
8,900.00	7,875.00	7,358.88	7,268.68	52.44	31.71	80.90	1,284.47	350.95	3,877.23	3,813.78	63.45	61.110		
9,000.00	7,875.00	7,353.75	7,263.62	52.34	31.69	80.82	1,283.68	350.69	3,886.30	3,821.83	64.47	60.284		
9,100.00	7,875.00	7,348.63	7,258.56	52.27	31.66	80.74	1,282.89	350.43	3,897.90	3,832.31	65.59	59.426		
9,200.00	7,875.00	7,343.50	7,253.50	52.22	31.64	80.67	1,282.10	350.17	3,912.02	3,845.21	66.81	58.556		
9,300.00	7,875.00	7,338.38	7,248.45	52.20	31.62	80.59	1,281.31	349.90	3,928.63	3,860.53	68.10	57.689		
9,400.00	7,875.00	7,333.25	7,243.39	52.24	31.60	80.52	1,280.52	349.64	3,947.69	3,878.24	69.45	56.840		
9,500.00	7,875.00	7,328.12	7,238.33	52.35	31.57	80.44	1,279.73	349.38	3,969.18	3,898.33	70.85	56.020		
9,600.00	7,875.00	7,323.00	7,233.27	52.62	31.55	80.36	1,278.94	349.12	3,993.05	3,920.76	72.29	55.238		
9,700.00	7,875.00	7,317.87	7,228.22	53.16	31.53	80.29	1,278.15	348.86	4,019.26	3,945.51	73.75	54.499		
9,800.00	7,875.00	7,312.75	7,223.16	54.13	31.51	80.21	1,277.36	348.60	4,047.77	3,972.54	75.23	53.808		
9,900.00	7,875.00	7,307.62	7,218.10	55.55	31.48	80.14	1,276.57	348.33	4,078.52	4,001.81	76.71	53.169		
10,000.00	7,875.00	7,302.49	7,213.04	57.28	31.46	80.06	1,275.78	348.07	4,111.47	4,033.28	78.19	52.583		
10,100.00	7,875.00	7,302.63	7,207.98	59.21	31.46	79.99	1,274.99	347.81	4,146.56	4,066.88	79.69	52.037		
10,200.00	7,875.00	7,307.76	7,202.93	61.26	31.48	79.91	1,274.20	347.55	4,183.74	4,102.56	81.19	51.533		
10,300.00	7,875.00	7,287.12	7,197.87	63.38	31.39	79.83	1,273.41	347.29	4,222.96	4,140.39	82.57	51.144		
10,400.00	7,875.00	7,281.99	7,192.81	65.57	31.37	79.76	1,272.62	347.02	4,264.16	4,180.17	83.99	50.768		
10,500.00	7,875.00	7,276.87	7,187.75	67.80	31.35	79.68	1,271.83	346.76	4,307.28	4,221.89	85.39	50.443		
10,600.00	7,875.00	7,271.74	7,182.69	70.07	31.32	79.61	1,271.04	346.50	4,352.26	4,265.50	86.76	50.166		
10,700.00	7,875.00	7,266.61	7,177.64	72.37	31.30	79.53	1,270.25	346.24	4,399.05	4,310.96	88.09	49.936		
10,800.00	7,875.00	7,261.49	7,172.58	74.70	31.28	79.45	1,269.46	345.98	4,447.59	4,358.19	89.40	49.750		
10,900.00	7,875.00	7,256.36	7,167.52	77.06	31.26	79.38	1,268.67	345.71	4,497.83	4,407.16	90.67	49.606		
11,000.00	7,875.00	7,251.24	7,162.46	79.44	31.23	79.30	1,267.88	345.45	4,549.70	4,457.80	91.91	49.504		
11,100.00	7,875.00	7,246.11	7,157.41	81.84	31.21	79.23	1,267.09	345.19	4,603.16	4,510.05	93.11	49.440		
11,200.00	7,875.00	7,240.98	7,152.35	84.26	31.19	79.15	1,266.30	344.93	4,658.14	4,563.87	94.27	49.412 SF		
11,300.00	7,875.00	7,235.86	7,147.29	86.69	31.16	79.08	1,265.51	344.67	4,714.60	4,619.20	95.40	49.420		
11,400.00	7,875.00	7,230.73	7,142.23	89.14	31.14	79.00	1,264.72	344.41	4,772.48	4,675.99	96.49	49.460		
11,500.00	7,875.00	7,225.61	7,137.17	91.60	31.12	78.92	1,263.93	344.14	4,831.73	4,734.19	97.55	49.532		
11,600.00	7,875.00	7,220.48	7,132.12	94.07	31.10	78.85	1,263.14	343.88	4,892.30	4,793.74	98.57	49.634		
11,700.00	7,875.00	7,215.36	7,127.06	96.56	31.07	78.77	1,262.35	343.62	4,954.15	4,854.60	99.55	49.764		
11,800.00	7,875.00	7,210.23	7,122.00	99.05	31.05	78.70	1,261.56	343.36	5,017.22	4,916.72	100.50	49.921		
11,900.00	7,875.00	7,205.10	7,116.94	101.56	31.03	78.62	1,260.77	343.10	5,081.47	4,980.05	101.42	50.104		
12,000.00	7,875.00	7,200.02	7,111.89	104.07	31.01	78.55	1,259.98	342.83	5,146.86	5,044.56	102.30	50.310		
12,100.00	7,875.00	7,194.85	7,106.83	106.60	30.98	78.47	1,259.19	342.57	5,213.34	5,110.19	103.15	50.540		
12,200.00	7,875.00	7,189.73	7,101.77	109.13	30.96	78.39	1,258.40	342.31	5,280.87	5,176.90	103.97	50.791		
12,300.00	7,875.00	7,184.60	7,096.71	111.66	30.94	78.32	1,257.61	342.05	5,349.42	5,244.65	104.76	51.063		
12,400.00	7,875.00	7,179.47	7,091.65	114.21	30.91	78.24	1,256.82	341.79	5,418.93	5,313.41	105.52	51.354		
12,500.00	7,875.00	7,174.35	7,086.60	116.76	30.89	78.17	1,256.03	341.53	5,489.39	5,383.14	106.25	51.664		
12,600.00	7,875.00	7,169.22	7,081.54	119.32	30.87	78.09	1,255.24	341.26	5,560.74	5,453.79	106.95	51.992		
12,700.00	7,875.00	7,164.10	7,076.48	121.88	30.85	78.02	1,254.45	341.00	5,632.96	5,525.34	107.63	52.337		
12,800.00	7,875.00	7,158.97	7,071.42	124.45	30.82	77.94	1,253.66	340.74	5,706.02	5,597.74	108.28	52.697		
12,900.00	7,875.00	7,153.84	7,066.36	127.02	30.80	77.86	1,252.87	340.48	5,779.88	5,670.97	108.90	53.073		
13,000.00	7,875.00	7,148.72	7,061.31	129.60	30.78	77.79	1,252.08	340.22	5,854.51	5,745.00	109.51	53.463		
13,100.00	7,875.00	7,143.59	7,056.25	132.18	30.76	77.71	1,251.29	339.95	5,929.88	5,819.80	110.08	53.867		
13,200.00	7,875.00	7,138.47	7,051.19	134.77	30.73	77.64	1,250.50	339.69	6,005.97	5,895.33	110.64	54.284		
13,300.00	7,875.00	7,133.34	7,046.13	137.36	30.71	77.56	1,249.71	339.43	6,082.74	5,971.57	111.18	54.713		
13,400.00	7,875.00	7,128.22	7,041.08	139.96	30.69	77.49	1,248.92	339.17	6,160.18	6,048.49	111.69	55.155		
13,500.00	7,875.00	7,123.09	7,036.02	142.55	30.66	77.41	1,248.13	338.91	6,238.26	6,126.07	112.18	55.608		
13,600.00	7,875.00	7,117.96	7,030.96	145.15	30.64	77.34	1,247.34	338.65	6,316.95	6,204.29	112.66	56.071		
13,700.00	7,875.00	7,112.84	7,025.90	147.76	30.62	77.26	1,246.55	338.38	6,396.23	6,283.11	113.12	56.545		
13,800.00	7,875.00	7,107.71	7,020.84	150.37	30.60	77.18	1,245.76	338.12	6,476.08	6,362.52	113.56	57.030		
13,900.00	7,875.00	7,102.59	7,015.79	152.98	30.57	77.11	1,244.97	337.86	6,556.48	6,442.50	113.98	57.523		
14,000.00	7,875.00	7,102.54	7,010.73	155.59	30.57	77.03	1,244.18	337.60	6,637.40	6,523.00	114.41	58.015		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
14,100.00	7,875.00	7,107.67	7,005.67	158.20	30.60	76.96	1,243.39	337.34	6,718.84	6,604.00	114.84	58.506		
14,200.00	7,875.00	7,087.21	7,000.61	160.82	30.51	76.88	1,242.60	337.07	6,800.77	6,685.61	115.16	59.057		
14,300.00	7,875.00	7,082.08	6,995.55	163.44	30.48	76.81	1,241.81	336.81	6,883.17	6,767.65	115.52	59.584		
14,400.00	7,875.00	7,076.96	6,990.50	166.06	30.46	76.73	1,241.02	336.55	6,966.03	6,850.16	115.87	60.120		
14,500.00	7,875.00	7,071.83	6,985.44	168.69	30.44	76.66	1,240.23	336.29	7,049.33	6,933.13	116.21	60.662		
14,600.00	7,875.00	7,066.71	6,980.38	171.32	30.41	76.58	1,239.44	336.03	7,133.06	7,016.53	116.53	61.212		
14,700.00	7,875.00	7,061.58	6,975.32	173.94	30.39	76.51	1,238.65	335.76	7,217.20	7,100.35	116.84	61.768		
14,800.00	7,875.00	7,056.45	6,970.27	176.57	30.37	76.43	1,237.86	335.50	7,301.73	7,184.58	117.14	62.331		
14,900.00	7,875.00	7,051.33	6,965.21	179.21	30.35	76.35	1,237.07	335.24	7,386.64	7,269.21	117.43	62.900		
15,000.00	7,875.00	7,046.20	6,960.15	181.84	30.32	76.28	1,236.28	334.98	7,471.93	7,354.22	117.71	63.476		
15,100.00	7,875.00	7,041.08	6,955.09	184.48	30.30	76.20	1,235.49	334.72	7,557.57	7,439.59	117.98	64.056		
15,200.00	7,875.00	7,035.95	6,950.03	187.11	30.28	76.13	1,234.70	334.46	7,643.56	7,525.32	118.24	64.643		
15,300.00	7,875.00	7,030.82	6,944.98	189.75	30.26	76.05	1,233.91	334.19	7,729.88	7,611.39	118.49	65.234		
15,400.00	7,875.00	7,025.70	6,939.92	192.39	30.23	75.98	1,233.12	333.93	7,816.53	7,697.79	118.74	65.831		
15,500.00	7,875.00	7,020.57	6,934.86	195.03	30.21	75.90	1,232.33	333.67	7,903.48	7,784.51	118.97	66.433		
15,600.00	7,875.00	7,015.45	6,929.80	197.67	30.19	75.83	1,231.54	333.41	7,990.74	7,871.55	119.19	67.039		
15,700.00	7,875.00	7,010.32	6,924.75	200.32	30.16	75.75	1,230.75	333.15	8,078.29	7,958.88	119.41	67.650		
15,800.00	7,875.00	7,005.19	6,919.69	202.96	30.14	75.68	1,229.96	332.88	8,166.13	8,046.50	119.62	68.266		
15,900.00	7,875.00	7,000.07	6,914.63	205.61	30.12	75.60	1,229.17	332.62	8,254.23	8,134.41	119.83	68.885		
16,000.00	7,875.00	6,994.94	6,909.57	208.26	30.10	75.53	1,228.38	332.36	8,342.61	8,222.58	120.02	69.509		
16,100.00	7,875.00	6,989.82	6,904.51	210.91	30.07	75.45	1,227.59	332.10	8,431.24	8,311.02	120.21	70.137		
16,200.00	7,875.00	6,984.69	6,899.46	213.56	30.05	75.38	1,226.80	331.84	8,520.11	8,399.72	120.40	70.768		
16,300.00	7,875.00	6,979.57	6,894.40	216.21	30.03	75.30	1,226.01	331.58	8,609.23	8,488.66	120.57	71.403		
16,400.00	7,875.00	6,974.44	6,889.34	218.86	30.01	75.23	1,225.22	331.31	8,698.58	8,577.84	120.74	72.042		
16,500.00	7,875.00	6,969.31	6,884.28	221.51	29.98	75.15	1,224.43	331.05	8,788.16	8,667.25	120.91	72.684		
16,600.00	7,875.00	6,964.19	6,879.22	224.16	29.96	75.08	1,223.64	330.79	8,877.96	8,756.89	121.07	73.329		
16,700.00	7,875.00	6,959.06	6,874.17	226.82	29.94	75.00	1,222.85	330.53	8,967.97	8,846.75	121.23	73.978		
16,800.00	7,875.00	6,953.94	6,869.11	229.47	29.91	74.93	1,222.06	330.27	9,058.19	8,936.81	121.38	74.629		
16,900.00	7,875.00	6,948.81	6,864.05	232.13	29.89	74.85	1,221.27	330.00	9,148.61	9,027.08	121.52	75.284		
17,000.00	7,875.00	6,943.68	6,858.99	234.79	29.87	74.78	1,220.48	329.74	9,239.22	9,117.56	121.66	75.941		
17,100.00	7,875.00	6,938.56	6,853.94	237.44	29.85	74.70	1,219.69	329.48	9,330.02	9,208.22	121.80	76.601		
17,200.00	7,875.00	6,933.43	6,848.88	240.10	29.82	74.63	1,218.90	329.22	9,421.01	9,299.07	121.93	77.264		
17,300.00	7,875.00	6,928.31	6,843.82	242.76	29.80	74.55	1,218.11	328.96	9,512.17	9,390.11	122.06	77.930		
17,400.00	7,875.00	6,923.18	6,838.76	245.42	29.78	74.48	1,217.32	328.70	9,603.51	9,481.32	122.19	78.598		
17,500.00	7,875.00	6,918.06	6,833.70	248.08	29.76	74.40	1,216.53	328.43	9,695.01	9,572.71	122.31	79.268		
17,600.00	7,875.00	6,912.93	6,828.65	250.74	29.73	74.33	1,215.74	328.17	9,786.68	9,664.26	122.42	79.941		
17,700.00	7,875.00	6,907.80	6,823.59	253.41	29.71	74.25	1,214.95	327.91	9,878.51	9,755.97	122.54	80.616		
17,800.00	7,875.00	6,902.68	6,818.53	256.07	29.69	74.18	1,214.16	327.65	9,970.49	9,847.84	122.65	81.293		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - PROSPER FARMS 4-65 14-13 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	4.40	4.40	0.00	0.01	-0.09	174.85	-0.28	174.85						
100.00	100.00	104.40	104.40	0.13	0.15	-0.09	174.85	-0.28	174.85	174.56	0.28	614.309			
200.00	200.00	204.40	204.40	0.49	0.51	-0.09	174.85	-0.28	174.85	173.85	1.00	174.575			
250.00	250.00	254.40	254.40	0.67	0.69	-0.09	174.85	-0.28	174.85	173.49	1.36	128.561 CC, ES			
300.00	300.00	302.04	302.03	0.84	0.86	-160.05	175.20	0.04	175.62	173.92	1.70	103.141			
400.00	399.93	397.44	397.37	1.19	1.20	-159.66	177.66	2.26	181.49	179.09	2.39	75.879			
500.00	499.68	493.45	493.17	1.54	1.55	-159.00	182.41	6.57	192.99	189.89	3.10	62.259			
600.00	599.13	607.75	591.69	1.92	1.97	-158.56	187.92	11.55	208.37	204.49	3.88	53.726			
700.00	698.15	709.50	689.66	2.32	2.35	-158.46	193.40	16.51	226.96	222.34	4.62	49.143			
800.00	796.63	788.09	786.97	2.74	2.64	-158.64	198.84	21.43	248.73	243.45	5.28	47.111			
900.00	894.44	884.89	883.50	3.21	3.00	-159.01	204.23	26.32	273.67	267.66	6.01	45.503			
1,000.00	991.46	980.79	979.13	3.71	3.36	-159.51	209.58	31.16	301.79	295.04	6.75	44.699			
1,100.00	1,087.58	1,075.67	1,073.74	4.25	3.72	-160.08	214.87	35.95	333.08	325.59	7.49	44.459			
1,200.00	1,182.68	1,169.42	1,167.22	4.83	4.07	-160.68	220.09	40.68	367.53	359.30	8.23	44.640			
1,288.87	1,266.25	1,251.69	1,249.26	5.39	4.38	-161.22	224.68	44.83	400.79	391.90	8.89	45.066			
1,300.00	1,276.66	1,261.92	1,259.46	5.46	4.42	-161.32	225.25	45.34	405.11	396.13	8.98	45.110			
1,400.00	1,370.15	1,353.91	1,351.19	6.12	4.77	-162.10	230.38	49.99	443.97	434.26	9.71	45.717			
1,500.00	1,463.65	1,445.89	1,442.91	6.80	5.11	-162.76	235.51	54.63	482.89	472.44	10.45	46.228			
1,600.00	1,557.15	1,537.88	1,534.64	7.48	5.46	-163.32	240.63	59.27	521.86	510.67	11.18	46.663			
1,700.00	1,650.64	1,629.86	1,626.36	8.16	5.80	-163.80	245.76	63.91	560.86	548.93	11.92	47.037			
1,800.00	1,744.14	1,721.85	1,718.09	8.85	6.15	-164.22	250.89	68.55	599.89	587.22	12.67	47.362			
1,900.00	1,837.64	1,813.83	1,809.81	9.55	6.50	-164.59	256.02	73.19	638.94	625.53	13.41	47.647			
2,000.00	1,931.13	1,905.82	1,901.54	10.24	6.84	-164.92	261.14	77.84	678.02	663.86	14.16	47.898			
2,100.00	2,024.63	2,002.20	1,993.26	10.94	7.21	-165.21	266.27	82.48	717.11	702.19	14.92	48.069			
2,200.00	2,118.12	2,089.79	2,084.98	11.64	7.54	-165.47	271.40	87.12	756.22	740.57	15.65	48.321			
2,300.00	2,211.62	2,181.77	2,176.71	12.35	7.88	-165.71	276.53	91.76	795.33	778.93	16.40	48.501			
2,400.00	2,305.12	2,273.76	2,268.43	13.05	8.23	-165.92	281.66	96.40	834.46	817.31	17.15	48.663			
2,500.00	2,398.61	2,365.74	2,360.16	13.75	8.58	-166.11	286.78	101.04	873.60	855.70	17.90	48.810			
2,600.00	2,492.11	2,457.73	2,451.88	14.46	8.93	-166.29	291.91	105.68	912.74	894.09	18.65	48.944			
2,700.00	2,585.61	2,549.71	2,543.61	15.17	9.27	-166.45	297.04	110.33	951.89	932.49	19.40	49.066			
2,800.00	2,679.10	2,641.70	2,635.33	15.87	9.62	-166.60	302.17	114.97	991.05	970.90	20.15	49.179			
2,900.00	2,772.60	2,733.68	2,727.06	16.58	9.97	-166.74	307.29	119.61	1,030.21	1,009.31	20.90	49.282			
3,000.00	2,866.10	2,825.67	2,818.78	17.29	10.31	-166.87	312.42	124.25	1,069.38	1,047.72	21.66	49.378			
3,100.00	2,959.59	2,917.65	2,910.51	18.00	10.66	-166.99	317.55	128.89	1,108.55	1,086.14	22.41	49.466			
3,200.00	3,053.09	3,009.64	3,002.23	18.71	11.01	-167.10	322.68	133.53	1,147.73	1,124.56	23.16	49.548			
3,300.00	3,146.59	3,101.62	3,093.96	19.42	11.35	-167.20	327.80	138.18	1,186.91	1,162.99	23.92	49.625			
3,400.00	3,240.08	3,206.39	3,185.68	20.13	11.75	-167.30	332.93	142.82	1,226.09	1,201.37	24.72	49.600			
3,500.00	3,333.58	3,285.59	3,277.40	20.84	12.05	-167.39	338.06	147.46	1,265.27	1,239.85	25.43	49.762			
3,600.00	3,427.08	3,377.58	3,369.13	21.55	12.39	-167.48	343.19	152.10	1,304.46	1,278.28	26.18	49.825			
3,700.00	3,520.57	3,469.56	3,460.85	22.26	12.74	-167.56	348.32	156.74	1,343.65	1,316.71	26.94	49.883			
3,800.00	3,614.07	3,561.55	3,552.58	22.97	13.09	-167.63	353.44	161.38	1,382.84	1,355.15	27.69	49.938			
3,900.00	3,707.57	3,653.53	3,644.30	23.69	13.44	-167.71	358.57	166.03	1,422.03	1,393.59	28.45	49.989			
4,000.00	3,801.06	3,745.52	3,736.03	24.40	13.78	-167.77	363.70	170.67	1,461.23	1,432.03	29.20	50.038			
4,100.00	3,894.56	3,837.50	3,827.75	25.11	14.13	-167.84	368.83	175.31	1,500.43	1,470.47	29.96	50.083			
4,200.00	3,988.05	3,929.49	3,919.48	25.82	14.48	-167.90	373.95	179.95	1,539.62	1,508.91	30.71	50.127			
4,300.00	4,081.55	4,021.47	4,011.20	26.53	14.82	-167.96	379.08	184.59	1,578.82	1,547.35	31.47	50.167			
4,400.00	4,175.05	4,113.46	4,102.93	27.25	15.17	-168.01	384.21	189.23	1,618.03	1,585.80	32.23	50.206			
4,500.00	4,268.54	4,205.44	4,194.65	27.96	15.52	-168.07	389.34	193.88	1,657.23	1,624.24	32.98	50.242			
4,600.00	4,362.04	4,302.57	4,286.37	28.67	15.88	-168.12	394.46	198.52	1,696.43	1,662.67	33.76	50.249			
4,700.00	4,455.54	4,389.41	4,378.10	29.38	16.21	-168.17	399.59	203.16	1,735.64	1,701.14	34.50	50.310			
4,800.00	4,549.03	4,481.40	4,469.82	30.10	16.56	-168.21	404.72	207.80	1,774.84	1,739.59	35.26	50.341			
4,900.00	4,642.53	4,573.38	4,561.55	30.81	16.91	-168.25	409.85	212.44	1,814.05	1,778.04	36.01	50.371			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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			
5,000.00	4,736.03	4,665.37	4,653.27	31.52	17.25	-168.30	414.98	217.08	1,853.26	1,816.48	36.77	50.399			
5,100.00	4,829.52	4,757.35	4,745.00	32.24	17.60	-168.34	420.10	221.73	1,892.46	1,854.94	37.53	50.426			
5,200.00	4,923.02	4,849.34	4,836.72	32.95	17.95	-168.38	425.23	226.37	1,931.67	1,893.39	38.29	50.452			
5,300.00	5,016.52	4,941.32	4,928.45	33.66	18.29	-168.41	430.36	231.01	1,970.88	1,931.84	39.05	50.476			
5,400.00	5,110.01	5,033.31	5,020.17	34.38	18.64	-168.45	435.49	235.65	2,010.09	1,970.29	39.80	50.499			
5,500.00	5,203.51	5,125.29	5,111.90	35.09	18.99	-168.48	440.61	240.29	2,049.31	2,008.74	40.56	50.521			
5,600.00	5,297.01	5,217.28	5,203.62	35.80	19.34	-168.52	445.74	244.93	2,088.52	2,047.19	41.32	50.543			
5,700.00	5,390.50	5,309.26	5,295.35	36.52	19.68	-168.55	450.87	249.58	2,127.73	2,085.65	42.08	50.563			
5,800.00	5,484.00	5,401.25	5,387.07	37.23	20.03	-168.58	456.00	254.22	2,166.94	2,124.10	42.84	50.582			
5,900.00	5,577.50	5,506.77	5,478.79	37.94	20.43	-168.61	461.12	258.86	2,206.16	2,162.51	43.65	50.542			
6,000.00	5,670.99	5,585.22	5,570.52	38.66	20.72	-168.64	466.25	263.50	2,245.37	2,201.01	44.36	50.618			
6,100.00	5,764.49	5,677.20	5,662.24	39.37	21.07	-168.66	471.38	268.14	2,284.58	2,239.46	45.12	50.635			
6,200.00	5,857.98	5,769.19	5,753.97	40.08	21.42	-168.69	476.51	272.78	2,323.80	2,277.92	45.88	50.651			
6,300.00	5,951.48	5,861.17	5,845.69	40.80	21.77	-168.72	481.63	277.43	2,363.01	2,316.37	46.64	50.666			
6,400.00	6,044.98	5,953.16	5,937.42	41.51	22.11	-168.74	486.76	282.07	2,402.23	2,354.83	47.40	50.681			
6,500.00	6,138.47	6,045.14	6,029.14	42.22	22.46	-168.77	491.89	286.71	2,441.44	2,393.28	48.16	50.695			
6,600.00	6,231.97	6,137.13	6,120.87	42.94	22.81	-168.79	497.02	291.35	2,480.66	2,431.74	48.92	50.708			
6,700.00	6,325.47	6,229.11	6,212.59	43.65	23.15	-168.81	502.15	295.99	2,519.88	2,470.20	49.68	50.721			
6,800.00	6,418.96	6,321.10	6,304.32	44.37	23.50	-168.83	507.27	300.63	2,559.09	2,508.65	50.44	50.734			
6,900.00	6,512.46	6,413.08	6,396.04	45.08	23.85	-168.86	512.40	305.28	2,598.31	2,547.11	51.20	50.745			
7,000.00	6,605.96	6,505.07	6,487.77	45.79	24.20	-168.88	517.53	309.92	2,637.53	2,585.56	51.96	50.757			
7,100.00	6,699.45	6,602.95	6,579.49	46.51	24.56	-168.90	522.66	314.56	2,676.75	2,624.00	52.75	50.746			
7,200.00	6,792.95	6,689.04	6,671.21	47.22	24.89	-168.92	527.78	319.20	2,715.96	2,662.48	53.49	50.778			
7,300.00	6,886.45	6,781.02	6,762.94	47.94	25.24	-168.93	532.91	323.84	2,755.18	2,700.93	54.25	50.787			
7,400.00	6,979.94	6,873.01	6,854.66	48.65	25.58	-168.95	538.04	328.48	2,794.40	2,739.39	55.01	50.797			
7,500.00	7,073.44	6,964.99	6,946.39	49.36	25.93	-168.97	543.17	333.12	2,833.62	2,777.85	55.77	50.806			
7,600.00	7,166.94	7,056.98	7,038.11	50.08	26.28	-168.99	548.29	337.77	2,872.84	2,816.30	56.54	50.814			
7,700.00	7,260.43	7,148.96	7,129.84	50.79	26.62	-169.01	553.42	342.41	2,912.06	2,854.76	57.30	50.822			
7,710.39	7,270.15	7,158.52	7,139.37	50.87	26.66	-169.01	553.96	342.89	2,916.13	2,858.75	57.38	50.823			
7,750.00	7,307.31	7,204.99	7,175.75	51.14	26.84	-178.94	555.99	344.73	2,931.49	2,873.77	57.71	50.793			
7,800.00	7,354.38	7,241.04	7,221.65	51.46	26.97	-163.12	558.56	347.05	2,950.28	2,892.23	58.05	50.826			
7,850.00	7,401.31	7,286.70	7,267.19	51.75	27.14	148.16	561.10	349.36	2,968.30	2,909.89	58.40	50.823			
7,900.00	7,447.74	7,331.66	7,312.02	52.00	27.31	135.28	563.61	351.63	2,985.45	2,926.70	58.75	50.818			
7,950.00	7,493.32	7,375.57	7,355.80	52.22	27.48	124.86	566.05	353.84	3,001.66	2,942.58	59.08	50.810			
8,000.00	7,537.69	7,418.09	7,398.21	52.41	27.64	116.66	568.42	355.99	3,016.87	2,957.48	59.39	50.798			
8,050.00	7,580.52	7,599.74	7,575.42	52.57	28.41	112.16	577.96	391.04	3,030.29	2,969.47	60.82	49.826			
8,100.00	7,621.49	8,100.00	7,652.42	52.70	31.01	108.21	581.82	426.67	3,041.56	2,977.76	63.80	47.676			
8,150.00	7,660.28	8,150.00	7,698.19	52.81	31.44	104.84	584.02	454.58	3,052.00	2,987.52	64.47	47.336			
8,200.00	7,696.59	7,787.74	7,737.90	52.89	29.39	102.19	585.86	483.59	3,061.93	2,999.25	62.68	48.853			
8,250.00	7,730.16	7,794.82	7,743.37	52.95	29.43	99.33	586.11	488.08	3,071.43	3,008.61	62.82	48.891			
8,300.00	7,760.72	7,792.78	7,741.80	52.98	29.42	96.77	586.03	486.78	3,080.48	3,017.59	62.89	48.982			
8,350.00	7,788.05	7,785.04	7,735.80	53.00	29.38	94.49	585.76	481.89	3,089.02	3,026.10	62.92	49.094			
8,400.00	7,811.93	7,773.57	7,726.79	53.00	29.31	92.47	585.35	474.80	3,096.96	3,034.02	62.94	49.205			
8,450.00	7,832.18	7,759.53	7,715.58	52.99	29.23	90.72	584.84	466.37	3,104.20	3,041.23	62.97	49.300			
8,500.00	7,848.65	7,743.68	7,702.68	52.95	29.14	89.20	584.24	457.18	3,110.66	3,047.65	63.01	49.365			
8,550.00	7,861.21	7,726.52	7,688.43	52.91	29.05	87.93	583.57	447.64	3,116.25	3,053.16	63.09	49.391			
8,600.00	7,869.78	7,708.38	7,673.07	52.85	28.95	86.89	582.83	438.03	3,120.90	3,057.70	63.21	49.376			
8,650.00	7,874.27	7,689.53	7,656.79	52.78	28.85	86.09	582.04	428.56	3,124.53	3,061.18	63.36	49.315			
8,679.79	7,875.00	7,678.02	7,646.70	52.74	28.79	85.73	581.55	423.04	3,126.19	3,062.72	63.47	49.256			
8,700.00	7,875.00	7,670.35	7,639.92	52.70	28.75	85.60	581.22	419.48	3,127.23	3,063.68	63.55	49.207			
8,800.00	7,875.00	7,637.51	7,610.36	52.56	28.59	85.06	579.74	405.27	3,134.01	3,069.91	64.10	48.889			
8,900.00	7,875.00	7,611.39	7,586.29	52.44	28.46	84.62	578.52	395.18	3,143.58	3,078.72	64.85	48.474			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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			
9,000.00	7,875.00	7,590.19	7,566.45	52.34	28.36	84.25	577.50	387.82	3,156.01	3,090.25	65.75	47.997			
9,100.00	7,875.00	7,572.69	7,549.87	52.27	28.28	83.95	576.64	382.29	3,171.34	3,104.56	66.78	47.486			
9,200.00	7,875.00	7,550.00	7,528.13	52.22	28.18	83.55	575.50	375.88	3,189.61	3,121.77	67.84	47.018			
9,300.00	7,875.00	7,550.00	7,528.13	52.20	28.18	83.55	575.50	375.88	3,210.74	3,141.59	69.15	46.429			
9,400.00	7,875.00	7,534.88	7,513.51	52.24	28.11	83.28	574.73	372.10	3,234.74	3,164.36	70.38	45.964			
9,500.00	7,875.00	7,525.60	7,504.49	52.35	28.07	83.12	574.25	369.96	3,261.56	3,189.89	71.67	45.506			
9,600.00	7,875.00	7,517.48	7,496.57	52.62	28.04	82.97	573.82	368.22	3,291.15	3,218.15	72.99	45.087			
9,700.00	7,875.00	7,500.00	7,479.45	53.16	27.96	82.66	572.90	364.84	3,323.48	3,249.23	74.24	44.766			
9,800.00	7,875.00	7,500.00	7,479.45	54.13	27.96	82.66	572.90	364.84	3,358.35	3,282.72	75.62	44.408			
9,900.00	7,875.00	7,500.00	7,479.45	55.55	27.96	82.66	572.90	364.84	3,395.81	3,318.82	76.99	44.107			
10,000.00	7,875.00	7,500.00	7,479.45	57.28	27.96	82.66	572.90	364.84	3,435.77	3,357.44	78.33	43.861			
10,100.00	7,875.00	7,500.00	7,479.45	59.21	27.96	82.66	572.90	364.84	3,478.16	3,398.51	79.65	43.671			
10,200.00	7,875.00	7,500.00	7,479.45	61.26	27.96	82.66	572.90	364.84	3,522.87	3,441.94	80.93	43.532			
10,300.00	7,875.00	7,480.43	7,460.16	63.38	27.89	82.31	571.85	361.68	3,569.61	3,487.58	82.03	43.516			
10,400.00	7,875.00	7,476.91	7,456.68	65.57	27.87	82.24	571.66	361.19	3,618.62	3,535.41	83.21	43.487 SF			
10,500.00	7,875.00	7,473.67	7,453.48	67.80	27.86	82.19	571.49	360.75	3,669.70	3,585.34	84.36	43.502			
10,600.00	7,875.00	7,470.69	7,450.53	70.07	27.85	82.13	571.33	360.36	3,722.74	3,637.28	85.46	43.560			
10,700.00	7,875.00	7,450.00	7,429.99	72.37	27.76	81.76	570.20	358.09	3,777.88	3,691.48	86.40	43.723			
10,800.00	7,875.00	7,450.00	7,429.99	74.70	27.76	81.76	570.20	358.09	3,834.59	3,747.14	87.45	43.850			
10,900.00	7,875.00	7,450.00	7,429.99	77.06	27.76	81.76	570.20	358.09	3,893.04	3,804.59	88.45	44.014			
11,000.00	7,875.00	7,450.00	7,429.99	79.44	27.76	81.76	570.20	358.09	3,953.15	3,863.74	89.41	44.214			
11,100.00	7,875.00	7,450.00	7,429.99	81.84	27.76	81.76	570.20	358.09	4,014.86	3,924.53	90.33	44.448			
11,200.00	7,875.00	7,450.00	7,429.99	84.26	27.76	81.76	570.20	358.09	4,078.08	3,986.88	91.20	44.714			
11,300.00	7,875.00	7,450.00	7,429.99	86.69	27.76	81.76	570.20	358.09	4,142.75	4,050.71	92.04	45.009			
11,400.00	7,875.00	7,450.00	7,429.99	89.14	27.76	81.76	570.20	358.09	4,208.81	4,115.97	92.84	45.332			
11,500.00	7,875.00	7,450.00	7,429.99	91.60	27.76	81.76	570.20	358.09	4,276.18	4,182.58	93.61	45.682			
11,600.00	7,875.00	7,450.00	7,429.99	94.07	27.76	81.76	570.20	358.09	4,344.81	4,250.48	94.34	46.057			
11,700.00	7,875.00	7,450.00	7,429.99	96.56	27.76	81.76	570.20	358.09	4,414.64	4,319.61	95.03	46.455			
11,800.00	7,875.00	7,450.00	7,429.99	99.05	27.76	81.76	570.20	358.09	4,485.62	4,389.92	95.69	46.875			
11,900.00	7,875.00	7,450.00	7,429.99	101.56	27.76	81.76	570.20	358.09	4,557.68	4,461.35	96.32	47.316			
12,000.00	7,875.00	7,450.00	7,429.99	104.07	27.76	81.76	570.20	358.09	4,630.77	4,533.85	96.93	47.776			
12,100.00	7,875.00	7,450.00	7,429.99	106.60	27.76	81.76	570.20	358.09	4,704.86	4,607.36	97.50	48.255			
12,200.00	7,875.00	7,450.00	7,429.99	109.13	27.76	81.76	570.20	358.09	4,779.90	4,681.85	98.05	48.751			
12,300.00	7,875.00	7,450.00	7,429.99	111.66	27.76	81.76	570.20	358.09	4,855.83	4,757.26	98.57	49.264			
12,400.00	7,875.00	7,450.00	7,429.99	114.21	27.76	81.76	570.20	358.09	4,932.62	4,833.56	99.06	49.792			
12,500.00	7,875.00	7,439.39	7,419.43	116.76	27.72	81.57	569.61	357.21	5,010.14	4,910.66	99.48	50.363			
12,600.00	7,875.00	7,438.46	7,418.51	119.32	27.72	81.55	569.56	357.15	5,088.52	4,988.59	99.93	50.921			
12,700.00	7,875.00	7,437.58	7,417.63	121.88	27.71	81.53	569.51	357.08	5,167.64	5,067.28	100.36	51.493			
12,800.00	7,875.00	7,436.73	7,416.78	124.45	27.71	81.52	569.46	357.02	5,247.47	5,146.71	100.76	52.077			
12,900.00	7,875.00	7,426.28	7,406.37	127.02	27.67	81.33	568.88	356.40	5,328.06	5,226.95	101.10	52.700			
13,000.00	7,875.00	7,426.28	7,406.37	129.60	27.67	81.33	568.88	356.40	5,409.21	5,307.73	101.48	53.304			
13,100.00	7,875.00	7,426.28	7,406.37	132.18	27.67	81.33	568.88	356.40	5,490.98	5,389.14	101.84	53.919			
13,200.00	7,875.00	7,426.28	7,406.37	134.77	27.67	81.33	568.88	356.40	5,573.35	5,471.16	102.18	54.543			
13,300.00	7,875.00	7,426.28	7,406.37	137.36	27.67	81.33	568.88	356.40	5,656.28	5,553.77	102.51	55.178			
13,400.00	7,875.00	7,426.28	7,406.37	139.96	27.67	81.33	568.88	356.40	5,739.76	5,636.93	102.82	55.821			
13,500.00	7,875.00	7,426.28	7,406.37	142.55	27.67	81.33	568.88	356.40	5,823.76	5,720.63	103.13	56.473			
13,600.00	7,875.00	7,426.28	7,406.37	145.15	27.67	81.33	568.88	356.40	5,908.26	5,804.84	103.41	57.132			
13,700.00	7,875.00	7,426.28	7,406.37	147.76	27.67	81.33	568.88	356.40	5,993.23	5,889.54	103.69	57.800			
13,800.00	7,875.00	7,426.28	7,406.37	150.37	27.67	81.33	568.88	356.40	6,078.66	5,974.71	103.95	58.474			
13,900.00	7,875.00	7,426.28	7,406.37	152.98	27.67	81.33	568.88	356.40	6,164.53	6,060.33	104.21	59.156			
14,000.00	7,875.00	7,426.28	7,406.37	155.59	27.67	81.33	568.88	356.40	6,250.83	6,146.37	104.45	59.844			
14,100.00	7,875.00	7,426.28	7,406.37	158.20	27.67	81.33	568.88	356.40	6,337.52	6,232.83	104.68	60.539			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
14,200.00	7,875.00	7,426.28	7,406.37	160.82	27.67	81.33	568.88	356.40	6,424.60	6,319.69	104.91	61.240		
14,300.00	7,875.00	7,426.28	7,406.37	163.44	27.67	81.33	568.88	356.40	6,512.05	6,406.93	105.13	61.946		
14,400.00	7,875.00	7,426.28	7,406.37	166.06	27.67	81.33	568.88	356.40	6,599.86	6,494.53	105.33	62.657		
14,500.00	7,875.00	7,426.84	7,406.93	168.69	27.67	81.34	568.91	356.43	6,688.01	6,582.47	105.53	63.373		
14,600.00	7,875.00	7,421.79	7,401.90	171.32	27.65	81.25	568.63	356.18	6,776.49	6,670.78	105.70	64.109		
14,700.00	7,875.00	7,416.74	7,396.86	173.94	27.64	81.15	568.35	355.92	6,865.28	6,759.41	105.86	64.850		
14,800.00	7,875.00	7,411.69	7,391.82	176.57	27.62	81.06	568.07	355.67	6,954.37	6,848.35	106.02	65.595		
14,900.00	7,875.00	7,406.64	7,386.78	179.21	27.60	80.97	567.79	355.41	7,043.75	6,937.58	106.17	66.345		
15,000.00	7,875.00	7,401.58	7,381.74	181.84	27.58	80.88	567.50	355.16	7,133.41	7,027.10	106.31	67.100		
15,100.00	7,875.00	7,396.53	7,376.71	184.48	27.56	80.79	567.22	354.90	7,223.33	7,116.89	106.45	67.858		
15,200.00	7,875.00	7,391.48	7,371.67	187.11	27.54	80.70	566.94	354.65	7,313.52	7,206.94	106.58	68.620		
15,300.00	7,875.00	7,386.43	7,366.63	189.75	27.52	80.60	566.66	354.39	7,403.95	7,297.24	106.71	69.385		
15,400.00	7,875.00	7,381.37	7,361.59	192.39	27.50	80.51	566.38	354.14	7,494.63	7,387.80	106.83	70.155		
15,500.00	7,875.00	7,376.32	7,356.55	195.03	27.48	80.42	566.10	353.88	7,585.53	7,478.58	106.95	70.927		
15,600.00	7,875.00	7,371.27	7,351.52	197.67	27.46	80.33	565.81	353.63	7,676.66	7,569.59	107.06	71.703		
15,700.00	7,875.00	7,366.22	7,346.48	200.32	27.44	80.24	565.53	353.37	7,768.00	7,660.83	107.17	72.482		
15,800.00	7,875.00	7,361.16	7,341.44	202.96	27.43	80.15	565.25	353.12	7,859.55	7,752.27	107.28	73.264		
15,900.00	7,875.00	7,356.11	7,336.40	205.61	27.41	80.06	564.97	352.86	7,951.30	7,843.92	107.38	74.048		
16,000.00	7,875.00	7,351.06	7,331.36	208.26	27.39	79.96	564.69	352.61	8,043.24	7,935.76	107.48	74.836		
16,100.00	7,875.00	7,346.01	7,326.32	210.91	27.37	79.87	564.41	352.35	8,135.37	8,027.80	107.57	75.626		
16,200.00	7,875.00	7,340.95	7,321.29	213.56	27.35	79.78	564.12	352.10	8,227.68	8,120.02	107.67	76.418		
16,300.00	7,875.00	7,335.90	7,316.25	216.21	27.33	79.69	563.84	351.84	8,320.17	8,212.41	107.76	77.213		
16,400.00	7,875.00	7,330.85	7,311.21	218.86	27.31	79.60	563.56	351.59	8,412.82	8,304.98	107.84	78.010		
16,500.00	7,875.00	7,325.80	7,306.17	221.51	27.29	79.51	563.28	351.33	8,505.64	8,397.72	107.93	78.809		
16,600.00	7,875.00	7,320.74	7,301.13	224.16	27.27	79.42	563.00	351.08	8,598.62	8,490.61	108.01	79.611		
16,700.00	7,875.00	7,315.69	7,296.10	226.82	27.25	79.33	562.72	350.82	8,691.75	8,583.66	108.09	80.414		
16,800.00	7,875.00	7,310.64	7,291.06	229.47	27.24	79.24	562.44	350.57	8,785.03	8,676.86	108.16	81.220		
16,900.00	7,875.00	7,305.59	7,286.02	232.13	27.22	79.14	562.15	350.31	8,878.45	8,770.21	108.24	82.027		
17,000.00	7,875.00	7,300.53	7,280.98	234.79	27.20	79.05	561.87	350.06	8,972.01	8,863.70	108.31	82.836		
17,100.00	7,875.00	7,304.52	7,275.94	237.44	27.21	78.96	561.59	349.80	9,065.70	8,957.29	108.41	83.621		
17,200.00	7,875.00	7,309.57	7,270.91	240.10	27.23	78.87	561.31	349.55	9,159.53	9,051.01	108.52	84.405		
17,300.00	7,875.00	7,285.38	7,265.87	242.76	27.14	78.78	561.03	349.29	9,253.48	9,144.96	108.52	85.273		
17,400.00	7,875.00	7,280.32	7,260.83	245.42	27.12	78.69	560.75	349.04	9,347.55	9,238.97	108.58	86.088		
17,500.00	7,875.00	7,275.27	7,255.79	248.08	27.10	78.60	560.46	348.78	9,441.74	9,333.10	108.64	86.905		
17,600.00	7,875.00	7,270.22	7,250.75	250.74	27.08	78.51	560.18	348.53	9,536.05	9,427.35	108.71	87.723		
17,700.00	7,875.00	7,265.17	7,245.71	253.41	27.06	78.42	559.90	348.27	9,630.48	9,521.71	108.77	88.543		
17,800.00	7,875.00	7,260.11	7,240.68	256.07	27.04	78.33	559.62	348.02	9,725.01	9,616.18	108.83	89.363		
17,900.00	7,875.00	7,255.06	7,235.64	258.73	27.03	78.24	559.34	347.76	9,819.64	9,710.76	108.88	90.185		
18,000.00	7,875.00	7,250.01	7,230.60	261.39	27.01	78.15	559.06	347.51	9,914.38	9,805.44	108.94	91.008		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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	0.20	-0.20	0.00	0.00	0.01	124.94	0.00	124.94							
100.00	100.00	100.20	99.80	0.13	0.14	0.01	124.94	0.00	124.94	124.67	0.27	463.475				
200.00	200.00	200.20	199.80	0.49	0.49	0.01	124.94	0.00	124.94	123.95	0.99	126.647				
250.00	250.00	249.80	249.80	0.67	0.67	0.01	124.94	0.00	124.94	123.60	1.34	92.992				
300.00	300.00	301.88	301.88	0.84	0.85	-160.01	124.51	0.18	124.93	123.24	1.69	73.761				
400.00	399.93	406.05	405.98	1.19	1.21	-159.89	121.03	1.67	124.88	122.49	2.39	52.309				
500.00	499.68	510.22	509.86	1.54	1.58	-159.67	114.08	4.64	124.76	121.66	3.10	40.250				
600.00	599.13	614.37	613.39	1.92	1.97	-159.33	103.66	9.10	124.59	120.76	3.83	32.560				
615.05	614.06	629.77	628.66	1.98	2.03	-159.27	101.84	9.88	124.56	120.63	3.94	31.642	CC, ES			
700.00	698.15	714.72	712.89	2.32	2.37	-159.17	91.68	14.23	125.74	121.18	4.56	27.590				
800.00	796.63	814.61	811.93	2.74	2.78	-159.54	79.75	19.33	130.15	124.85	5.30	24.557				
900.00	894.44	914.29	910.76	3.21	3.18	-160.36	67.83	24.43	137.84	131.78	6.05	22.779				
1,000.00	991.46	1,013.63	1,009.26	3.71	3.59	-161.50	55.96	29.51	148.84	142.04	6.81	21.868				
1,100.00	1,087.58	1,112.51	1,107.31	4.25	4.01	-162.83	44.14	34.56	163.22	155.65	7.57	21.571	SF			
1,200.00	1,182.68	1,210.82	1,204.78	4.83	4.42	-164.22	32.40	39.59	180.99	172.66	8.33	21.729				
1,288.87	1,266.25	1,302.40	1,290.83	5.39	4.80	-165.44	22.02	44.02	199.64	190.61	9.03	22.117				
1,300.00	1,276.66	1,308.43	1,301.56	5.46	4.82	-165.60	20.73	44.58	202.15	193.05	9.10	22.222				
1,400.00	1,370.15	1,405.74	1,398.04	6.12	5.23	-166.88	9.10	49.55	224.72	214.87	9.86	22.801				
1,500.00	1,463.65	1,503.04	1,494.52	6.80	5.64	-167.93	-2.53	54.52	247.39	236.77	10.62	23.299				
1,600.00	1,557.15	1,600.35	1,591.01	7.48	6.05	-168.80	-14.16	59.50	270.12	258.73	11.38	23.729				
1,700.00	1,650.64	1,702.34	1,687.49	8.16	6.48	-169.54	-25.79	64.47	292.89	280.73	12.17	24.070				
1,800.00	1,744.14	1,805.04	1,783.97	8.85	6.91	-170.17	-37.41	69.45	315.71	302.76	12.96	24.364				
1,900.00	1,837.64	1,907.73	1,880.45	9.55	7.34	-170.71	-49.04	74.42	338.56	324.81	13.75	24.623				
2,000.00	1,931.13	1,989.58	1,976.93	10.24	7.69	-171.19	-60.67	79.40	361.44	346.97	14.47	24.986				
2,100.00	2,024.63	2,086.89	2,073.41	10.94	8.10	-171.61	-72.30	84.37	384.34	369.09	15.24	25.218				
2,200.00	2,118.12	2,184.19	2,169.90	11.64	8.51	-171.98	-83.93	89.35	407.25	391.23	16.02	25.427				
2,300.00	2,211.62	2,281.50	2,266.38	12.35	8.92	-172.32	-95.56	94.32	430.18	413.38	16.79	25.617				
2,400.00	2,305.12	2,378.81	2,362.86	13.05	9.33	-172.61	-107.19	99.29	453.12	435.55	17.57	25.788				
2,500.00	2,398.61	2,476.11	2,459.34	13.75	9.74	-172.88	-118.82	104.27	476.07	457.72	18.35	25.945				
2,600.00	2,492.11	2,573.42	2,555.82	14.46	10.15	-173.13	-130.45	109.24	499.03	479.90	19.13	26.088				
2,700.00	2,585.61	2,670.73	2,652.30	15.17	10.56	-173.35	-142.08	114.22	522.00	502.09	19.91	26.220				
2,800.00	2,679.10	2,768.04	2,748.79	15.87	10.97	-173.56	-153.70	119.19	544.97	524.28	20.69	26.341				
2,900.00	2,772.60	2,865.34	2,845.27	16.58	11.39	-173.75	-165.33	124.17	567.95	546.48	21.47	26.454				
3,000.00	2,866.10	2,962.65	2,941.75	17.29	11.80	-173.92	-176.96	129.14	590.94	568.69	22.25	26.558				
3,100.00	2,959.59	3,059.96	3,038.23	18.00	12.21	-174.08	-188.59	134.11	613.93	590.90	23.03	26.654				
3,200.00	3,053.09	3,157.27	3,134.71	18.71	12.62	-174.23	-200.22	139.09	636.93	613.11	23.82	26.744				
3,300.00	3,146.59	3,254.57	3,231.19	19.42	13.03	-174.37	-211.85	144.06	659.93	635.33	24.60	26.828				
3,400.00	3,240.08	3,351.88	3,327.68	20.13	13.44	-174.50	-223.48	149.04	682.93	657.55	25.38	26.907				
3,500.00	3,333.58	3,449.19	3,424.16	20.84	13.85	-174.62	-235.11	154.01	705.93	679.77	26.16	26.981				
3,600.00	3,427.08	3,546.49	3,520.64	21.55	14.27	-174.73	-246.74	158.99	728.94	702.00	26.95	27.050				
3,700.00	3,520.57	3,643.80	3,617.12	22.26	14.68	-174.84	-258.37	163.96	751.95	724.22	27.73	27.115				
3,800.00	3,614.07	3,741.11	3,713.60	22.97	15.09	-174.94	-269.99	168.94	774.97	746.45	28.52	27.177				
3,900.00	3,707.57	3,838.42	3,810.08	23.69	15.50	-175.03	-281.62	173.91	797.98	768.68	29.30	27.235				
4,000.00	3,801.06	3,935.72	3,906.57	24.40	15.91	-175.12	-293.25	178.88	821.00	790.92	30.08	27.290				
4,100.00	3,894.56	4,033.03	4,003.05	25.11	16.33	-175.21	-304.88	183.86	844.02	813.15	30.87	27.342				
4,200.00	3,988.05	4,130.34	4,099.53	25.82	16.74	-175.29	-316.51	188.83	867.04	835.39	31.65	27.391				
4,300.00	4,081.55	4,227.64	4,196.01	26.53	17.15	-175.36	-328.14	193.81	890.06	857.62	32.44	27.438				
4,400.00	4,175.05	4,324.95	4,292.49	27.25	17.56	-175.43	-339.77	198.78	913.09	879.86	33.22	27.482				
4,500.00	4,268.54	4,422.26	4,388.97	27.96	17.97	-175.50	-351.40	203.76	936.11	902.10	34.01	27.525				
4,600.00	4,362.04	4,519.57	4,485.46	28.67	18.39	-175.57	-363.03	208.73	959.14	924.34	34.80	27.565				
4,700.00	4,455.54	4,616.87	4,581.94	29.38	18.80	-175.63	-374.66	213.71	982.17	946.59	35.58	27.603				
4,800.00	4,549.03	4,714.18	4,678.42	30.10	19.21	-175.69	-386.29	218.68	1,005.20	968.83	36.37	27.640				

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
4,900.00	4,642.53	4,811.49	4,774.90	30.81	19.62	-175.75	-397.91	223.65	1,028.23	991.07	37.15	27.675		
5,000.00	4,736.03	4,908.80	4,871.38	31.52	20.03	-175.80	-409.54	228.63	1,051.26	1,013.32	37.94	27.709		
5,100.00	4,829.52	5,006.10	4,967.86	32.24	20.44	-175.85	-421.17	233.60	1,074.29	1,035.56	38.73	27.741		
5,200.00	4,923.02	5,103.41	5,064.35	32.95	20.86	-175.90	-432.80	238.58	1,097.32	1,057.81	39.51	27.772		
5,300.00	5,016.52	5,200.72	5,160.83	33.66	21.27	-175.95	-444.43	243.55	1,120.35	1,080.05	40.30	27.801		
5,400.00	5,110.01	5,301.98	5,257.31	34.38	21.70	-175.99	-456.06	248.53	1,143.39	1,102.29	41.10	27.820		
5,500.00	5,203.51	5,404.67	5,353.79	35.09	22.13	-176.04	-467.69	253.50	1,166.42	1,124.51	41.91	27.834		
5,600.00	5,297.01	5,492.64	5,450.27	35.80	22.51	-176.08	-479.32	258.47	1,189.45	1,146.79	42.66	27.883		
5,700.00	5,390.50	5,589.95	5,546.75	36.52	22.92	-176.12	-490.95	263.45	1,212.49	1,169.04	43.45	27.908		
5,800.00	5,484.00	5,687.25	5,643.24	37.23	23.33	-176.16	-502.58	268.42	1,235.53	1,191.29	44.23	27.932		
5,900.00	5,577.50	5,784.56	5,739.72	37.94	23.74	-176.20	-514.20	273.40	1,258.56	1,213.54	45.02	27.956		
6,000.00	5,670.99	5,881.87	5,836.20	38.66	24.15	-176.23	-525.83	278.37	1,281.60	1,235.79	45.81	27.978		
6,100.00	5,764.49	5,979.17	5,932.68	39.37	24.57	-176.27	-537.46	283.35	1,304.64	1,258.04	46.59	28.000		
6,200.00	5,857.98	6,076.48	6,029.16	40.08	24.98	-176.30	-549.09	288.32	1,327.67	1,280.29	47.38	28.021		
6,300.00	5,951.48	6,173.79	6,125.64	40.80	25.39	-176.33	-560.72	293.30	1,350.71	1,302.54	48.17	28.041		
6,400.00	6,044.98	6,271.10	6,222.13	41.51	25.80	-176.37	-572.35	298.27	1,373.75	1,324.79	48.96	28.060		
6,500.00	6,138.47	6,368.40	6,318.61	42.22	26.21	-176.40	-583.98	303.24	1,396.79	1,347.04	49.75	28.079		
6,600.00	6,231.97	6,465.71	6,415.09	42.94	26.63	-176.42	-595.61	308.22	1,419.83	1,369.30	50.53	28.097		
6,700.00	6,325.47	6,563.02	6,511.57	43.65	27.04	-176.45	-607.24	313.19	1,442.87	1,391.55	51.32	28.115		
6,800.00	6,418.96	6,660.32	6,608.05	44.37	27.45	-176.48	-618.87	318.17	1,465.91	1,413.80	52.11	28.132		
6,900.00	6,512.46	6,757.63	6,704.53	45.08	27.86	-176.51	-630.49	323.14	1,488.95	1,436.05	52.90	28.148		
7,000.00	6,605.96	6,854.94	6,801.02	45.79	28.27	-176.53	-642.12	328.12	1,511.99	1,458.30	53.69	28.164		
7,100.00	6,699.45	6,952.25	6,897.50	46.51	28.69	-176.56	-653.75	333.09	1,535.03	1,480.56	54.47	28.179		
7,200.00	6,792.95	7,049.55	6,993.98	47.22	29.10	-176.58	-665.38	338.06	1,558.07	1,502.81	55.26	28.194		
7,300.00	6,886.45	7,146.86	7,090.46	47.94	29.51	-176.61	-677.01	343.04	1,581.11	1,525.06	56.05	28.209		
7,400.00	6,979.94	7,244.17	7,186.94	48.65	29.92	-176.63	-688.64	348.01	1,604.15	1,547.32	56.84	28.223		
7,500.00	7,073.44	7,341.48	7,283.42	49.36	30.34	-176.65	-700.27	352.99	1,627.20	1,569.57	57.63	28.237		
7,600.00	7,166.94	7,438.78	7,379.91	50.08	30.75	-176.67	-711.90	357.96	1,650.24	1,591.82	58.42	28.250		
7,700.00	7,260.43	7,536.08	7,476.40	50.79	31.16	-176.69	-723.53	362.93	1,673.28	1,614.07	59.21	28.263		
7,710.39	7,270.15	7,546.39	7,486.14	50.87	31.22	-176.69	-725.16	363.53	1,675.91	1,616.70	59.30	28.265		
7,750.00	7,307.31	7,583.55	7,513.30	51.14	31.49	-176.70	-728.79	365.03	1,681.54	1,622.53	59.51	28.270		
7,800.00	7,354.38	7,630.62	7,560.37	51.46	31.69	-176.71	-732.42	366.53	1,687.17	1,628.36	59.72	28.274		
7,809.33	7,363.17	7,640.93	7,569.06	51.51	31.76	-176.71	-733.05	366.77	1,688.01	1,629.20	59.75	28.275		
7,850.00	7,401.31	7,678.09	7,606.20	51.75	31.99	-176.72	-736.68	368.27	1,693.64	1,634.63	60.00	28.279		
7,900.00	7,447.74	7,715.25	7,643.34	52.00	32.22	-176.73	-740.31	369.77	1,699.07	1,640.06	60.25	28.283		
7,950.00	7,493.32	7,752.41	7,680.48	52.22	32.45	-176.74	-743.94	371.27	1,704.50	1,645.49	60.50	28.287		
8,000.00	7,537.69	7,789.57	7,717.62	52.41	32.68	-176.75	-747.57	372.77	1,710.00	1,650.92	60.75	28.291		
8,050.00	7,580.52	7,826.73	7,754.76	52.57	32.91	-176.76	-751.20	374.27	1,715.43	1,656.35	61.00	28.295		
8,100.00	7,621.49	7,863.89	7,791.90	52.70	33.14	-176.77	-754.83	375.77	1,720.86	1,661.78	61.25	28.299		
8,150.00	7,660.28	7,901.05	7,829.04	52.81	33.37	-176.78	-758.46	377.27	1,726.29	1,667.21	61.50	28.303		
8,200.00	7,696.59	7,938.21	7,866.18	52.89	33.60	-176.79	-762.09	378.77	1,731.72	1,672.64	61.75	28.307		
8,250.00	7,730.16	7,975.37	7,903.32	52.95	33.83	-176.80	-765.72	380.27	1,737.15	1,678.07	62.00	28.311		
8,300.00	7,760.72	8,012.53	7,940.46	52.98	34.06	-176.81	-769.35	381.77	1,742.58	1,683.50	62.25	28.315		
8,350.00	7,788.05	8,049.69	7,977.60	53.00	34.29	-176.82	-772.98	383.27	1,748.01	1,688.93	62.50	28.319		
8,400.00	7,811.93	8,086.85	8,014.74	53.00	34.52	-176.83	-776.61	384.77	1,753.44	1,694.36	62.75	28.323		
8,450.00	7,832.18	8,124.01	8,051.88	52.99	34.75	-176.84	-780.24	386.27	1,758.87	1,699.79	63.00	28.327		
8,500.00	7,848.65	8,161.17	8,089.02	52.95	34.98	-176.85	-783.87	387.77	1,764.30	1,705.22	63.25	28.331		
8,550.00	7,861.21	8,198.33	8,126.16	52.91	35.21	-176.86	-787.50	389.27	1,769.73	1,710.65	63.50	28.335		
8,600.00	7,869.78	8,235.49	8,163.30	52.85	35.44	-176.87	-791.13	390.77	1,775.16	1,716.08	63.75	28.339		
8,650.00	7,874.27	8,272.65	8,200.44	52.78	35.67	-176.88	-794.76	392.27	1,780.59	1,721.51	64.00	28.343		
8,679.79	7,875.00	8,287.81	8,205.17	52.74	35.71	-176.88	-795.51	392.61	1,781.24	1,722.16	64.00	28.343		
8,700.00	7,875.00	8,303.00	8,210.36	52.70	35.85	-176.89	-797.14	393.11	1,782.00	1,722.92	64.00	28.343		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
8,800.00	7,875.00	7,872.05	7,770.56	52.56	32.89	86.63	-760.89	513.46	1,810.87	1,742.78	68.09	26.595		
8,900.00	7,875.00	7,836.69	7,744.25	52.44	32.69	85.79	-757.41	490.11	1,832.83	1,763.96	68.88	26.610		
9,000.00	7,875.00	7,800.00	7,715.48	52.34	32.49	84.88	-753.64	467.66	1,858.81	1,789.11	69.70	26.669		
9,100.00	7,875.00	7,779.07	7,698.44	52.27	32.37	84.34	-751.43	455.70	1,888.77	1,817.92	70.85	26.659		
9,200.00	7,875.00	7,750.00	7,674.09	52.22	32.22	83.58	-748.30	440.15	1,922.79	1,850.93	71.86	26.758		
9,300.00	7,875.00	7,734.73	7,660.99	52.20	32.14	83.17	-746.62	432.48	1,960.69	1,887.59	73.10	26.824		
9,400.00	7,875.00	7,716.32	7,644.94	52.24	32.04	82.67	-744.57	423.71	2,002.41	1,928.17	74.24	26.971		
9,500.00	7,875.00	7,700.00	7,630.47	52.35	31.96	82.23	-742.74	416.37	2,047.78	1,972.40	75.38	27.167		
9,600.00	7,875.00	7,700.00	7,630.47	52.62	31.96	82.23	-742.74	416.37	2,096.76	2,020.07	76.69	27.341		
9,700.00	7,875.00	7,672.11	7,605.30	53.16	31.82	81.45	-739.56	404.81	2,148.72	2,071.18	77.54	27.711		
9,800.00	7,875.00	7,650.00	7,584.96	54.13	31.71	80.83	-737.01	396.52	2,203.99	2,125.58	78.41	28.107		
9,900.00	7,875.00	7,650.00	7,584.96	55.55	31.71	80.83	-737.01	396.52	2,262.00	2,182.49	79.50	28.451		
10,000.00	7,875.00	7,650.00	7,584.96	57.28	31.71	80.83	-737.01	396.52	2,322.86	2,242.35	80.51	28.852		
10,100.00	7,875.00	7,630.67	7,566.93	59.21	31.62	80.28	-734.75	389.93	2,386.07	2,304.85	81.22	29.376		
10,200.00	7,875.00	7,622.46	7,559.20	61.26	31.58	80.05	-733.79	387.32	2,451.69	2,369.70	82.00	29.900		
10,300.00	7,875.00	7,600.00	7,537.89	63.38	31.47	79.40	-731.15	380.75	2,519.66	2,437.10	82.56	30.519		
10,400.00	7,875.00	7,600.00	7,537.89	65.57	31.47	79.40	-731.15	380.75	2,589.32	2,506.03	83.29	31.086		
10,500.00	7,875.00	7,600.00	7,537.89	67.80	31.47	79.40	-731.15	380.75	2,660.92	2,576.96	83.96	31.691		
10,600.00	7,875.00	7,600.00	7,537.89	70.07	31.47	79.40	-731.15	380.75	2,734.30	2,649.73	84.58	32.330		
10,700.00	7,875.00	7,600.00	7,537.89	72.37	31.47	79.40	-731.15	380.75	2,809.32	2,724.19	85.13	32.999		
10,800.00	7,875.00	7,600.00	7,537.89	74.70	31.47	79.40	-731.15	380.75	2,885.86	2,800.22	85.64	33.697		
10,900.00	7,875.00	7,579.95	7,518.66	77.06	31.37	78.83	-728.77	375.59	2,963.45	2,877.49	85.96	34.475		
11,000.00	7,875.00	7,575.42	7,514.30	79.44	31.35	78.70	-728.23	374.52	3,042.50	2,956.14	86.36	35.232		
11,100.00	7,875.00	7,571.17	7,510.19	81.84	31.33	78.58	-727.73	373.55	3,122.72	3,036.00	86.72	36.009		
11,200.00	7,875.00	7,550.00	7,489.64	84.26	31.23	77.97	-725.20	369.16	3,204.28	3,117.34	86.94	36.855		
11,300.00	7,875.00	7,550.00	7,489.64	86.69	31.23	77.97	-725.20	369.16	3,286.49	3,199.21	87.28	37.655		
11,400.00	7,875.00	7,550.00	7,489.64	89.14	31.23	77.97	-725.20	369.16	3,369.66	3,282.07	87.59	38.473		
11,500.00	7,875.00	7,550.00	7,489.64	91.60	31.23	77.97	-725.20	369.16	3,453.72	3,365.85	87.87	39.306		
11,600.00	7,875.00	7,550.00	7,489.64	94.07	31.23	77.97	-725.20	369.16	3,538.61	3,450.48	88.13	40.154		
11,700.00	7,875.00	7,550.00	7,489.64	96.56	31.23	77.97	-725.20	369.16	3,624.27	3,535.91	88.36	41.016		
11,800.00	7,875.00	7,550.00	7,489.64	99.05	31.23	77.97	-725.20	369.16	3,710.65	3,622.07	88.58	41.890		
11,900.00	7,875.00	7,550.00	7,489.64	101.56	31.23	77.97	-725.20	369.16	3,797.70	3,708.92	88.78	42.776		
12,000.00	7,875.00	7,550.00	7,489.64	104.07	31.23	77.97	-725.20	369.16	3,885.37	3,796.40	88.97	43.672		
12,100.00	7,875.00	7,550.00	7,489.64	106.60	31.23	77.97	-725.20	369.16	3,973.62	3,884.49	89.14	44.579		
12,200.00	7,875.00	7,550.00	7,489.64	109.13	31.23	77.97	-725.20	369.16	4,062.42	3,973.13	89.29	45.495		
12,300.00	7,875.00	7,550.00	7,489.64	111.66	31.23	77.97	-725.20	369.16	4,151.73	4,062.29	89.44	46.419		
12,400.00	7,875.00	7,550.00	7,489.64	114.21	31.23	77.97	-725.20	369.16	4,241.51	4,151.94	89.58	47.351		
12,500.00	7,875.00	7,550.00	7,489.64	116.76	31.23	77.97	-725.20	369.16	4,331.75	4,242.04	89.70	48.291		
12,600.00	7,875.00	7,550.00	7,489.64	119.32	31.23	77.97	-725.20	369.16	4,422.40	4,332.58	89.82	49.237		
12,700.00	7,875.00	7,527.29	7,467.42	121.88	31.13	77.31	-722.49	365.31	4,512.98	4,423.13	89.84	50.231		
12,800.00	7,875.00	7,525.50	7,465.66	124.45	31.12	77.26	-722.27	365.05	4,604.32	4,514.38	89.94	51.193		
12,900.00	7,875.00	7,523.78	7,463.98	127.02	31.12	77.21	-722.07	364.80	4,696.01	4,605.97	90.03	52.159		
13,000.00	7,875.00	7,522.14	7,462.36	129.60	31.11	77.17	-721.87	364.56	4,788.02	4,697.91	90.12	53.130		
13,100.00	7,875.00	7,500.00	7,440.55	132.18	31.01	76.53	-719.22	361.86	4,880.74	4,790.61	90.13	54.154		
13,200.00	7,875.00	7,500.00	7,440.55	134.77	31.01	76.53	-719.22	361.86	4,973.30	4,883.09	90.21	55.130		
13,300.00	7,875.00	7,500.00	7,440.55	137.36	31.01	76.53	-719.22	361.86	5,066.15	4,975.86	90.29	56.111		
13,400.00	7,875.00	7,500.00	7,440.55	139.96	31.01	76.53	-719.22	361.86	5,159.26	5,068.90	90.36	57.095		
13,500.00	7,875.00	7,500.00	7,440.55	142.55	31.01	76.53	-719.22	361.86	5,252.63	5,162.19	90.43	58.084		
13,600.00	7,875.00	7,500.00	7,440.55	145.15	31.01	76.53	-719.22	361.86	5,346.23	5,255.74	90.50	59.076		
13,700.00	7,875.00	7,500.00	7,440.55	147.76	31.01	76.53	-719.22	361.86	5,440.07	5,349.51	90.56	60.071		
13,800.00	7,875.00	7,500.00	7,440.55	150.37	31.01	76.53	-719.22	361.86	5,534.12	5,443.50	90.62	61.069		
13,900.00	7,875.00	7,500.00	7,440.55	152.98	31.01	76.53	-719.22	361.86	5,628.37	5,537.70	90.68	62.070		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - PROSPER FARMS 4-65 14-13 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			
14,000.00	7,875.00	7,500.00	7,440.55	155.59	31.01	76.53	-719.22	361.86	5,722.82	5,632.09	90.73	63.073			
14,100.00	7,875.00	7,500.00	7,440.55	158.20	31.01	76.53	-719.22	361.86	5,817.46	5,726.68	90.79	64.079			
14,200.00	7,875.00	7,500.00	7,440.55	160.82	31.01	76.53	-719.22	361.86	5,912.27	5,821.44	90.84	65.087			
14,300.00	7,875.00	7,500.00	7,440.55	163.44	31.01	76.53	-719.22	361.86	6,007.25	5,916.37	90.88	66.098			
14,400.00	7,875.00	7,500.00	7,440.55	166.06	31.01	76.53	-719.22	361.86	6,102.40	6,011.46	90.93	67.110			
14,500.00	7,875.00	7,500.00	7,440.55	168.69	31.01	76.53	-719.22	361.86	6,197.69	6,106.71	90.98	68.124			
14,600.00	7,875.00	7,500.00	7,440.55	171.32	31.01	76.53	-719.22	361.86	6,293.13	6,202.11	91.02	69.140			
14,700.00	7,875.00	7,500.00	7,440.55	173.94	31.01	76.53	-719.22	361.86	6,388.71	6,297.65	91.06	70.157			
14,800.00	7,875.00	7,500.00	7,440.55	176.57	31.01	76.53	-719.22	361.86	6,484.42	6,393.32	91.10	71.176			
14,900.00	7,875.00	7,500.00	7,440.55	179.21	31.01	76.53	-719.22	361.86	6,580.26	6,489.12	91.15	72.195			
15,000.00	7,875.00	7,500.00	7,440.55	181.84	31.01	76.53	-719.22	361.86	6,676.23	6,585.04	91.18	73.217			
15,100.00	7,875.00	7,500.00	7,440.55	184.48	31.01	76.53	-719.22	361.86	6,772.31	6,681.08	91.22	74.239			
15,200.00	7,875.00	7,500.00	7,440.55	187.11	31.01	76.53	-719.22	361.86	6,868.50	6,777.24	91.26	75.262			
15,300.00	7,875.00	7,500.00	7,440.55	189.75	31.01	76.53	-719.22	361.86	6,964.80	6,873.50	91.30	76.286			
15,400.00	7,875.00	7,500.00	7,440.55	192.39	31.01	76.53	-719.22	361.86	7,061.20	6,969.86	91.34	77.311			
15,500.00	7,875.00	7,500.00	7,440.55	195.03	31.01	76.53	-719.22	361.86	7,157.70	7,066.33	91.37	78.336			
15,600.00	7,875.00	7,500.00	7,440.55	197.67	31.01	76.53	-719.22	361.86	7,254.29	7,162.88	91.41	79.362			
15,700.00	7,875.00	7,500.00	7,440.55	200.32	31.01	76.53	-719.22	361.86	7,350.98	7,259.54	91.44	80.389			
15,800.00	7,875.00	7,500.00	7,440.55	202.96	31.01	76.53	-719.22	361.86	7,447.75	7,356.27	91.48	81.416			
15,900.00	7,875.00	7,500.00	7,440.55	205.61	31.01	76.53	-719.22	361.86	7,544.61	7,453.10	91.51	82.443			
16,000.00	7,875.00	7,500.00	7,440.55	208.26	31.01	76.53	-719.22	361.86	7,641.55	7,550.00	91.55	83.471			
16,100.00	7,875.00	7,500.00	7,440.55	210.91	31.01	76.53	-719.22	361.86	7,738.57	7,646.98	91.58	84.499			
16,200.00	7,875.00	7,500.00	7,440.55	213.56	31.01	76.53	-719.22	361.86	7,835.66	7,744.04	91.62	85.527			
16,300.00	7,875.00	7,500.00	7,440.55	216.21	31.01	76.53	-719.22	361.86	7,932.82	7,841.17	91.65	86.555			
16,400.00	7,875.00	7,500.00	7,440.55	218.86	31.01	76.53	-719.22	361.86	8,030.05	7,938.37	91.68	87.583			
16,500.00	7,875.00	7,500.00	7,440.55	221.51	31.01	76.53	-719.22	361.86	8,127.35	8,035.64	91.72	88.611			
16,600.00	7,875.00	7,500.00	7,440.55	224.16	31.01	76.53	-719.22	361.86	8,224.72	8,132.97	91.75	89.640			
16,700.00	7,875.00	7,500.00	7,440.55	226.82	31.01	76.53	-719.22	361.86	8,322.15	8,230.36	91.79	90.668			
16,800.00	7,875.00	7,500.00	7,440.55	229.47	31.01	76.53	-719.22	361.86	8,419.64	8,327.81	91.82	91.696			
16,900.00	7,875.00	7,500.00	7,440.55	232.13	31.01	76.53	-719.22	361.86	8,517.18	8,425.33	91.86	92.723			
17,000.00	7,875.00	7,486.13	7,426.84	234.79	30.95	76.13	-717.56	360.60	8,614.61	8,522.75	91.87	93.774			
17,100.00	7,875.00	7,485.63	7,426.35	237.44	30.95	76.12	-717.50	360.56	8,712.26	8,620.36	91.90	94.802			
17,200.00	7,875.00	7,485.15	7,425.87	240.10	30.95	76.11	-717.44	360.52	8,809.95	8,718.02	91.93	95.830			
17,300.00	7,875.00	7,484.67	7,425.40	242.76	30.94	76.09	-717.38	360.49	8,907.70	8,815.73	91.97	96.857			
17,400.00	7,875.00	7,484.21	7,424.94	245.42	30.94	76.08	-717.33	360.45	9,005.50	8,913.49	92.00	97.884			
17,500.00	7,875.00	7,470.29	7,411.15	248.08	30.88	75.68	-715.66	359.57	9,103.50	9,011.49	92.01	98.938			
17,600.00	7,875.00	7,470.29	7,411.15	250.74	30.88	75.68	-715.66	359.57	9,201.38	9,109.34	92.05	99.963			
17,700.00	7,875.00	7,470.29	7,411.15	253.41	30.88	75.68	-715.66	359.57	9,299.31	9,207.22	92.08	100.987			
17,800.00	7,875.00	7,470.29	7,411.15	256.07	30.88	75.68	-715.66	359.57	9,397.28	9,305.16	92.12	102.011			
17,900.00	7,875.00	7,470.29	7,411.15	258.73	30.88	75.68	-715.66	359.57	9,495.29	9,403.13	92.16	103.034			
18,000.00	7,875.00	7,470.29	7,411.15	261.39	30.88	75.68	-715.66	359.57	9,593.34	9,501.15	92.19	104.056			
18,100.00	7,875.00	7,470.29	7,411.15	264.06	30.88	75.68	-715.66	359.57	9,691.43	9,599.20	92.23	105.078			
18,200.00	7,875.00	7,470.29	7,411.15	266.72	30.88	75.68	-715.66	359.57	9,789.56	9,697.29	92.27	106.099			
18,300.00	7,875.00	7,470.29	7,411.15	269.39	30.88	75.68	-715.66	359.57	9,887.73	9,795.42	92.31	107.119			
18,400.00	7,875.00	7,470.29	7,411.15	272.05	30.88	75.68	-715.66	359.57	9,985.93	9,893.59	92.34	108.138			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - PROSPER FARMS 4-65 14-13 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	0.10	0.10	0.00	0.00	0.00	75.04	0.00	75.04						
100.00	100.00	100.10	100.10	0.13	0.13	0.00	75.04	0.00	75.04	74.77	0.27	278.736			
200.00	200.00	200.10	200.10	0.49	0.49	0.00	75.04	0.00	75.04	74.05	0.99	76.093			
250.00	250.00	250.10	250.10	0.67	0.67	0.00	75.04	0.00	75.04	73.69	1.34	55.807			
300.00	300.00	301.40	301.40	0.84	0.85	-160.05	74.59	0.12	75.01	73.32	1.69	44.336			
400.00	399.93	404.00	403.92	1.19	1.20	-160.26	71.04	1.06	74.83	72.45	2.38	31.451			
500.00	499.68	506.58	506.24	1.54	1.56	-160.70	63.94	2.95	74.47	71.39	3.09	24.136			
600.00	599.13	609.16	608.22	1.92	1.95	-161.35	53.31	5.77	73.94	70.14	3.80	19.454			
700.00	698.15	711.71	709.72	2.32	2.36	-162.25	39.16	9.53	73.25	68.73	4.53	16.185			
800.00	796.63	814.25	810.61	2.74	2.81	-163.38	21.51	14.22	72.42	67.16	5.26	13.776			
846.30	842.00	861.03	856.43	2.96	3.02	-164.00	12.42	16.63	72.12	66.51	5.60	12.874	CC, ES		
900.00	894.44	914.71	909.00	3.21	3.27	-164.90	1.92	19.42	72.61	66.61	6.00	12.094			
1,000.00	991.46	1,014.60	1,006.83	3.71	3.74	-167.00	-17.62	24.61	76.18	69.43	6.75	11.280			
1,100.00	1,087.58	1,114.29	1,104.46	4.25	4.21	-169.36	-37.11	29.79	83.28	75.76	7.52	11.079	SF		
1,200.00	1,182.68	1,213.65	1,201.76	4.83	4.69	-171.65	-56.55	34.95	93.93	85.65	8.28	11.339			
1,288.87	1,266.25	1,301.59	1,287.88	5.39	5.12	-173.47	-73.74	39.52	106.39	97.42	8.97	11.856			
1,300.00	1,276.66	1,312.57	1,298.63	5.46	5.17	-173.69	-75.89	40.09	108.12	99.06	9.06	11.932			
1,400.00	1,370.15	1,411.28	1,395.30	6.12	5.65	-175.32	-95.20	45.22	123.78	113.94	9.84	12.581			
1,500.00	1,463.65	1,509.99	1,491.97	6.80	6.14	-176.59	-114.51	50.35	139.52	128.90	10.62	13.133			
1,600.00	1,557.15	1,608.71	1,588.64	7.48	6.62	-177.60	-133.81	55.48	155.31	143.90	11.41	13.608			
1,700.00	1,650.64	1,707.42	1,685.31	8.16	7.11	-178.43	-153.12	60.60	171.14	158.93	12.21	14.019			
1,800.00	1,744.14	1,806.13	1,781.98	8.85	7.60	-179.11	-172.42	65.73	186.99	173.99	13.00	14.379			
1,900.00	1,837.64	1,904.84	1,878.65	9.55	8.08	-179.69	-191.73	70.86	202.87	189.06	13.81	14.694			
2,000.00	1,931.13	2,003.56	1,975.32	10.24	8.57	-179.82	-211.04	75.99	218.77	204.16	14.61	14.974			
2,100.00	2,024.63	2,102.27	2,071.99	10.94	9.06	-179.39	-230.34	81.12	234.68	219.26	15.42	15.223			
2,200.00	2,118.12	2,200.98	2,168.66	11.64	9.55	-179.02	-249.65	86.24	250.60	234.37	16.22	15.447			
2,300.00	2,211.62	2,300.31	2,265.33	12.35	10.04	-178.69	-268.96	91.37	266.53	249.49	17.04	15.645			
2,400.00	2,305.12	2,401.60	2,362.00	13.05	10.55	-178.40	-288.26	96.50	282.46	264.61	17.86	15.819			
2,500.00	2,398.61	2,502.88	2,458.67	13.75	11.05	-178.14	-307.57	101.63	298.41	279.73	18.68	15.976			
2,600.00	2,492.11	2,595.83	2,555.34	14.46	11.51	-177.90	-326.88	106.76	314.35	294.89	19.47	16.146			
2,700.00	2,585.61	2,694.54	2,652.01	15.17	12.01	-177.69	-346.18	111.89	330.31	310.02	20.28	16.285			
2,800.00	2,679.10	2,793.25	2,748.68	15.87	12.50	-177.50	-365.49	117.01	346.27	325.17	21.10	16.412			
2,900.00	2,772.60	2,908.03	2,845.35	16.58	13.07	-177.32	-384.79	122.14	362.23	340.25	21.98	16.482			
3,000.00	2,866.10	3,009.32	2,942.02	17.29	13.57	-177.16	-404.10	127.27	378.19	355.39	22.80	16.585			
3,100.00	2,959.59	3,089.39	3,038.69	18.00	13.97	-177.02	-423.41	132.40	394.16	370.61	23.55	16.739			
3,200.00	3,053.09	3,188.10	3,135.36	18.71	14.47	-176.88	-442.71	137.53	410.12	385.76	24.37	16.832			
3,300.00	3,146.59	3,286.82	3,232.03	19.42	14.96	-176.76	-462.02	142.65	426.10	400.91	25.18	16.920			
3,400.00	3,240.08	3,385.53	3,328.70	20.13	15.45	-176.64	-481.33	147.78	442.07	416.07	26.00	17.001			
3,500.00	3,333.58	3,484.24	3,425.37	20.84	15.94	-176.53	-500.63	152.91	458.04	431.22	26.82	17.078			
3,600.00	3,427.08	3,582.95	3,522.04	21.55	16.43	-176.43	-519.94	158.04	474.02	446.38	27.64	17.150			
3,700.00	3,520.57	3,681.66	3,618.71	22.26	16.93	-176.34	-539.25	163.17	490.00	461.54	28.46	17.217			
3,800.00	3,614.07	3,780.38	3,715.38	22.97	17.42	-176.25	-558.55	168.30	505.97	476.69	29.28	17.281			
3,900.00	3,707.57	3,879.09	3,812.05	23.69	17.91	-176.16	-577.86	173.42	521.95	491.85	30.10	17.341			
4,000.00	3,801.06	3,977.80	3,908.72	24.40	18.41	-176.09	-597.17	178.55	537.93	507.01	30.92	17.397			
4,100.00	3,894.56	4,076.51	4,005.39	25.11	18.90	-176.01	-616.47	183.68	553.92	522.17	31.74	17.451			
4,200.00	3,988.05	4,175.23	4,102.06	25.82	19.39	-175.94	-635.78	188.81	569.90	537.33	32.56	17.502			
4,300.00	4,081.55	4,273.94	4,198.73	26.53	19.88	-175.88	-655.08	193.94	585.88	552.50	33.38	17.550			
4,400.00	4,175.05	4,372.65	4,295.40	27.25	20.38	-175.82	-674.39	199.07	601.86	567.66	34.21	17.596			
4,500.00	4,268.54	4,471.36	4,392.07	27.96	20.87	-175.76	-693.70	204.19	617.85	582.82	35.03	17.639			
4,600.00	4,362.04	4,570.08	4,488.74	28.67	21.36	-175.70	-713.00	209.32	633.83	597.98	35.85	17.681			
4,700.00	4,455.54	4,668.79	4,585.41	29.38	21.86	-175.65	-732.31	214.45	649.82	613.15	36.67	17.720			
4,800.00	4,549.03	4,767.50	4,682.08	30.10	22.35	-175.60	-751.62	219.58	665.80	628.31	37.49	17.758			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
4,900.00	4,642.53	4,866.21	4,778.75	30.81	22.84	175.55	-770.92	224.71	681.79	643.48	38.32	17.794		
5,000.00	4,736.03	4,964.92	4,875.42	31.52	23.34	175.50	-790.23	229.83	697.78	658.64	39.14	17.829		
5,100.00	4,829.52	5,063.64	4,972.09	32.24	23.83	175.46	-809.54	234.96	713.77	673.81	39.96	17.862		
5,200.00	4,923.02	5,162.35	5,068.76	32.95	24.32	175.42	-828.84	240.09	729.75	688.97	40.78	17.894		
5,300.00	5,016.52	5,261.06	5,165.43	33.66	24.82	175.38	-848.15	245.22	745.74	704.14	41.61	17.924		
5,400.00	5,110.01	5,359.77	5,262.10	34.38	25.31	175.34	-867.45	250.35	761.73	719.30	42.43	17.953		
5,500.00	5,203.51	5,458.49	5,358.77	35.09	25.80	175.30	-886.76	255.48	777.72	734.47	43.25	17.981		
5,600.00	5,297.01	5,557.20	5,455.44	35.80	26.30	175.26	-906.07	260.60	793.71	749.63	44.07	18.008		
5,700.00	5,390.50	5,655.91	5,552.11	36.52	26.79	175.23	-925.37	265.73	809.70	764.80	44.90	18.034		
5,800.00	5,484.00	5,754.62	5,648.78	37.23	27.28	175.20	-944.68	270.86	825.69	779.97	45.72	18.059		
5,900.00	5,577.50	5,853.34	5,745.45	37.94	27.78	175.17	-963.99	275.99	841.68	795.13	46.55	18.083		
6,000.00	5,670.99	5,952.05	5,842.12	38.66	28.27	175.14	-983.29	281.12	857.67	810.30	47.37	18.106		
6,100.00	5,764.49	6,050.76	5,938.79	39.37	28.76	175.11	-1,002.60	286.24	873.66	825.47	48.19	18.129		
6,200.00	5,857.98	6,149.47	6,035.46	40.08	29.26	175.08	-1,021.91	291.37	889.65	840.63	49.02	18.150		
6,300.00	5,951.48	6,248.18	6,132.13	40.80	29.75	175.05	-1,041.21	296.50	905.64	855.80	49.84	18.171		
6,400.00	6,044.98	6,346.90	6,228.80	41.51	30.24	175.03	-1,060.52	301.63	921.63	870.97	50.66	18.191		
6,500.00	6,138.47	6,445.61	6,325.47	42.22	30.74	175.00	-1,079.83	306.76	937.62	886.13	51.49	18.211		
6,600.00	6,231.97	6,544.32	6,422.14	42.94	31.23	174.98	-1,099.13	311.89	953.61	901.30	52.31	18.229		
6,700.00	6,325.47	6,643.03	6,518.81	43.65	31.73	174.95	-1,118.44	317.01	969.60	916.47	53.14	18.248		
6,800.00	6,418.96	6,741.75	6,615.48	44.37	32.22	174.93	-1,137.74	322.14	985.60	931.64	53.96	18.265		
6,900.00	6,512.46	6,840.46	6,712.15	45.08	32.71	174.91	-1,157.05	327.27	1,001.59	946.80	54.78	18.282		
7,000.00	6,605.96	6,939.17	6,808.82	45.79	33.21	174.88	-1,176.36	332.40	1,017.58	961.97	55.61	18.299		
7,100.00	6,699.45	7,037.88	6,905.49	46.51	33.70	174.86	-1,195.66	337.53	1,033.57	977.14	56.43	18.315		
7,200.00	6,792.95	7,136.59	7,002.16	47.22	34.19	174.84	-1,214.97	342.65	1,049.56	992.31	57.26	18.331		
7,300.00	6,886.45	7,235.31	7,098.83	47.94	34.69	174.82	-1,234.28	347.78	1,065.56	1,007.47	58.08	18.346		
7,400.00	6,979.94	7,334.02	7,195.50	48.65	35.18	174.81	-1,253.58	352.91	1,081.55	1,022.64	58.91	18.360		
7,500.00	7,073.44	7,432.73	7,292.17	49.36	35.67	174.79	-1,272.89	358.04	1,097.54	1,037.81	59.73	18.375		
7,600.00	7,166.94	7,531.44	7,388.86	50.08	36.16	174.77	-1,292.20	363.17	1,113.53	1,053.06	60.55	18.389		
7,700.00	7,260.43	7,630.15	7,484.99	50.79	36.65	174.75	-1,311.51	368.30	1,129.52	1,068.31	61.37	18.403		
7,710.39	7,270.15	8,090.72	7,816.67	50.87	39.44	-171.22	-1,380.97	677.58	1,095.37	1,033.16	62.21	17.608		
7,750.00	7,307.31	8,146.13	7,838.39	51.14	39.82	-178.42	-1,385.87	728.29	1,088.83	1,025.32	63.52	17.143		
7,800.00	7,354.38	8,186.26	7,851.06	51.46	40.11	170.43	-1,388.83	766.24	1,081.26	1,016.22	65.04	16.625		
7,850.00	7,401.31	8,206.12	7,856.36	51.75	40.26	158.80	-1,390.11	785.34	1,075.28	1,009.02	66.26	16.228		
7,900.00	7,447.74	8,213.62	7,858.19	52.00	40.32	148.23	-1,390.55	792.60	1,071.33	1,004.11	67.22	15.938		
7,950.00	7,493.32	8,213.15	7,858.08	52.22	40.31	139.29	-1,390.53	792.14	1,069.58	1,001.66	67.92	15.748		
7,964.39	7,506.23	8,211.94	7,857.79	52.28	40.31	137.01	-1,390.45	790.97	1,069.48	1,001.40	68.08	15.709		
8,000.00	7,537.69	8,207.31	7,856.66	52.41	40.27	131.88	-1,390.18	786.49	1,070.04	1,001.63	68.41	15.641		
8,050.00	7,580.52	8,197.70	7,854.19	52.57	40.20	125.67	-1,389.58	777.22	1,072.66	1,003.91	68.75	15.603		
8,100.00	7,621.49	8,185.34	7,850.80	52.70	40.11	120.35	-1,388.77	765.37	1,077.31	1,008.36	68.95	15.625		
8,150.00	7,660.28	8,170.94	7,846.53	52.81	40.00	115.68	-1,387.76	751.65	1,083.81	1,014.76	69.05	15.697		
8,200.00	7,696.59	8,154.97	7,841.40	52.89	39.88	111.47	-1,386.57	736.57	1,091.96	1,022.90	69.06	15.811		
8,250.00	7,730.16	8,137.77	7,835.42	52.95	39.76	107.60	-1,385.19	720.51	1,101.56	1,032.51	69.04	15.955		
8,300.00	7,760.72	8,119.61	7,828.59	52.98	39.63	104.01	-1,383.64	703.75	1,112.36	1,043.35	69.00	16.120		
8,350.00	7,788.05	8,100.00	7,820.64	53.00	39.50	100.63	-1,381.86	685.92	1,124.13	1,055.18	68.94	16.305		
8,400.00	7,811.93	8,081.09	7,812.40	53.00	39.37	97.51	-1,380.02	668.99	1,136.63	1,067.67	68.97	16.481		
8,450.00	7,832.18	8,060.99	7,803.06	52.99	39.24	94.58	-1,377.96	651.32	1,149.64	1,080.64	69.01	16.660		
8,500.00	7,848.65	8,040.46	7,792.89	52.95	39.10	91.84	-1,375.73	633.62	1,162.94	1,093.83	69.10	16.829		
8,550.00	7,861.21	8,019.57	7,781.91	52.91	38.97	89.32	-1,373.35	616.02	1,176.30	1,107.02	69.27	16.980		
8,600.00	7,869.78	8,000.00	7,771.06	52.85	38.84	87.08	-1,371.00	599.90	1,189.53	1,119.96	69.56	17.100		
8,650.00	7,874.27	7,976.94	7,757.58	52.78	38.70	84.97	-1,368.11	581.41	1,202.43	1,132.61	69.82	17.222		
8,679.79	7,875.00	7,964.06	7,749.74	52.74	38.62	83.86	-1,366.43	571.33	1,209.89	1,139.86	70.03	17.276		
8,700.00	7,875.00	7,950.00	7,740.93	52.70	38.53	83.44	-1,364.56	560.54	1,215.02	1,145.01	70.00	17.356		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - PROSPER FARMS 4-65 14-13 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			
8,800.00	7,875.00	7,915.66	7,718.34	52.56	38.33	82.38	-1,359.77	535.12	1,243.26	1,172.14	71.12	17.481			
8,900.00	7,875.00	7,880.60	7,693.78	52.44	38.12	81.25	-1,354.60	510.65	1,276.64	1,204.42	72.22	17.677			
9,000.00	7,875.00	7,850.00	7,671.18	52.34	37.94	80.21	-1,349.87	490.59	1,315.09	1,241.65	73.44	17.906			
9,100.00	7,875.00	7,822.31	7,649.84	52.27	37.78	79.25	-1,345.42	473.51	1,358.46	1,283.75	74.71	18.184			
9,200.00	7,875.00	7,800.00	7,632.07	52.22	37.65	78.46	-1,341.74	460.53	1,406.52	1,330.48	76.03	18.498			
9,300.00	7,875.00	7,776.51	7,612.85	52.20	37.51	77.62	-1,337.76	447.64	1,458.96	1,381.73	77.23	18.891			
9,400.00	7,875.00	7,750.00	7,590.54	52.24	37.36	76.65	-1,333.17	434.08	1,515.53	1,437.30	78.23	19.372			
9,500.00	7,875.00	7,750.00	7,590.54	52.35	37.36	76.65	-1,333.17	434.08	1,575.84	1,496.08	79.76	19.758			
9,600.00	7,875.00	7,724.46	7,568.49	52.62	37.22	75.71	-1,328.64	422.02	1,639.42	1,558.86	80.55	20.352			
9,700.00	7,875.00	7,700.00	7,546.90	53.16	37.08	74.80	-1,324.22	411.42	1,706.29	1,625.01	81.28	20.992			
9,800.00	7,875.00	7,700.00	7,546.90	54.13	37.08	74.80	-1,324.22	411.42	1,775.76	1,693.38	82.38	21.554			
9,900.00	7,875.00	7,700.00	7,546.90	55.55	37.08	74.80	-1,324.22	411.42	1,848.03	1,764.68	83.35	22.172			
10,000.00	7,875.00	7,675.55	7,524.88	57.28	36.95	73.89	-1,319.72	401.77	1,922.22	1,838.42	83.80	22.938			
10,100.00	7,875.00	7,650.00	7,501.47	59.21	36.81	72.94	-1,314.96	392.72	1,998.87	1,914.70	84.17	23.747			
10,200.00	7,875.00	7,650.00	7,501.47	61.26	36.81	72.94	-1,314.96	392.72	2,076.93	1,992.07	84.87	24.473			
10,300.00	7,875.00	7,650.00	7,501.47	63.38	36.81	72.94	-1,314.96	392.72	2,156.81	2,071.33	85.47	25.234			
10,400.00	7,875.00	7,650.00	7,501.47	65.57	36.81	72.94	-1,314.96	392.72	2,238.30	2,152.29	86.00	26.026			
10,500.00	7,875.00	7,650.00	7,501.47	67.80	36.81	72.94	-1,314.96	392.72	2,321.24	2,234.77	86.47	26.845			
10,600.00	7,875.00	7,627.57	7,480.61	70.07	36.69	72.10	-1,310.72	385.67	2,404.98	2,318.35	86.63	27.760			
10,700.00	7,875.00	7,621.48	7,474.90	72.37	36.65	71.88	-1,309.57	383.89	2,490.08	2,403.14	86.95	28.640			
10,800.00	7,875.00	7,600.00	7,454.62	74.70	36.54	71.08	-1,305.46	378.14	2,576.43	2,489.37	87.07	29.592			
10,900.00	7,875.00	7,600.00	7,454.62	77.06	36.54	71.08	-1,305.46	378.14	2,663.32	2,575.95	87.37	30.483			
11,000.00	7,875.00	7,600.00	7,454.62	79.44	36.54	71.08	-1,305.46	378.14	2,751.09	2,663.45	87.64	31.390			
11,100.00	7,875.00	7,600.00	7,454.62	81.84	36.54	71.08	-1,305.46	378.14	2,839.68	2,751.79	87.88	32.311			
11,200.00	7,875.00	7,600.00	7,454.62	84.26	36.54	71.08	-1,305.46	378.14	2,928.99	2,840.90	88.10	33.247			
11,300.00	7,875.00	7,600.00	7,454.62	86.69	36.54	71.08	-1,305.46	378.14	3,018.98	2,930.69	88.29	34.194			
11,400.00	7,875.00	7,600.00	7,454.62	89.14	36.54	71.08	-1,305.46	378.14	3,109.58	3,021.12	88.46	35.152			
11,500.00	7,875.00	7,600.00	7,454.62	91.60	36.54	71.08	-1,305.46	378.14	3,200.74	3,112.13	88.61	36.120			
11,600.00	7,875.00	7,600.00	7,454.62	94.07	36.54	71.08	-1,305.46	378.14	3,292.42	3,203.66	88.75	37.097			
11,700.00	7,875.00	7,577.82	7,433.47	96.56	36.42	70.27	-1,301.19	373.02	3,384.09	3,295.35	88.74	38.136			
11,800.00	7,875.00	7,574.67	7,430.44	99.05	36.40	70.15	-1,300.58	372.36	3,476.52	3,387.68	88.84	39.134			
11,900.00	7,875.00	7,571.67	7,427.57	101.56	36.38	70.04	-1,300.01	371.75	3,569.35	3,480.42	88.93	40.139			
12,000.00	7,875.00	7,550.00	7,406.68	104.07	36.27	69.25	-1,295.80	367.78	3,662.87	3,573.98	88.90	41.203			
12,100.00	7,875.00	7,550.00	7,406.68	106.60	36.27	69.25	-1,295.80	367.78	3,756.30	3,667.31	88.99	42.209			
12,200.00	7,875.00	7,550.00	7,406.68	109.13	36.27	69.25	-1,295.80	367.78	3,850.07	3,760.99	89.08	43.221			
12,300.00	7,875.00	7,550.00	7,406.68	111.66	36.27	69.25	-1,295.80	367.78	3,944.13	3,854.98	89.16	44.238			
12,400.00	7,875.00	7,550.00	7,406.68	114.21	36.27	69.25	-1,295.80	367.78	4,038.49	3,949.26	89.23	45.260			
12,500.00	7,875.00	7,550.00	7,406.68	116.76	36.27	69.25	-1,295.80	367.78	4,133.10	4,043.81	89.30	46.286			
12,600.00	7,875.00	7,550.00	7,406.68	119.32	36.27	69.25	-1,295.80	367.78	4,227.97	4,138.61	89.36	47.315			
12,700.00	7,875.00	7,550.00	7,406.68	121.88	36.27	69.25	-1,295.80	367.78	4,323.07	4,233.65	89.41	48.348			
12,800.00	7,875.00	7,550.00	7,406.68	124.45	36.27	69.25	-1,295.80	367.78	4,418.38	4,328.91	89.47	49.385			
12,900.00	7,875.00	7,550.00	7,406.68	127.02	36.27	69.25	-1,295.80	367.78	4,513.90	4,424.38	89.52	50.424			
13,000.00	7,875.00	7,550.00	7,406.68	129.60	36.27	69.25	-1,295.80	367.78	4,609.60	4,520.04	89.57	51.466			
13,100.00	7,875.00	7,550.00	7,406.68	132.18	36.27	69.25	-1,295.80	367.78	4,705.49	4,615.88	89.61	52.511			
13,200.00	7,875.00	7,550.00	7,406.68	134.77	36.27	69.25	-1,295.80	367.78	4,801.54	4,711.89	89.65	53.558			
13,300.00	7,875.00	7,550.00	7,406.68	137.36	36.27	69.25	-1,295.80	367.78	4,897.75	4,808.06	89.69	54.607			
13,400.00	7,875.00	7,550.00	7,406.68	139.96	36.27	69.25	-1,295.80	367.78	4,994.11	4,904.38	89.73	55.658			
13,500.00	7,875.00	7,550.00	7,406.68	142.55	36.27	69.25	-1,295.80	367.78	5,090.61	5,000.85	89.76	56.710			
13,600.00	7,875.00	7,550.00	7,406.68	145.15	36.27	69.25	-1,295.80	367.78	5,187.25	5,097.45	89.80	57.765			
13,700.00	7,875.00	7,550.00	7,406.68	147.76	36.27	69.25	-1,295.80	367.78	5,284.00	5,194.17	89.83	58.820			
13,800.00	7,875.00	7,550.00	7,406.68	150.37	36.27	69.25	-1,295.80	367.78	5,380.88	5,291.02	89.87	59.877			
13,900.00	7,875.00	7,550.00	7,406.68	152.98	36.27	69.25	-1,295.80	367.78	5,477.87	5,387.97	89.90	60.935			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
14,000.00	7,875.00	7,550.00	7,406.68	155.59	36.27	69.25	-1,295.80	367.78	5,574.97	5,485.04	89.93	61.994		
14,100.00	7,875.00	7,550.00	7,406.68	158.20	36.27	69.25	-1,295.80	367.78	5,672.16	5,582.20	89.96	63.054		
14,200.00	7,875.00	7,550.00	7,406.68	160.82	36.27	69.25	-1,295.80	367.78	5,769.45	5,679.47	89.99	64.114		
14,300.00	7,875.00	7,550.00	7,406.68	163.44	36.27	69.25	-1,295.80	367.78	5,866.84	5,776.82	90.02	65.175		
14,400.00	7,875.00	7,526.68	7,384.06	166.06	36.15	68.41	-1,291.26	364.42	5,963.80	5,873.82	89.97	66.284		
14,500.00	7,875.00	7,525.59	7,383.00	168.69	36.14	68.37	-1,291.05	364.29	6,061.30	5,971.30	90.00	67.349		
14,600.00	7,875.00	7,524.53	7,381.97	171.32	36.14	68.34	-1,290.84	364.16	6,158.88	6,068.86	90.02	68.413		
14,700.00	7,875.00	7,523.51	7,380.97	173.94	36.13	68.30	-1,290.64	364.03	6,256.54	6,166.49	90.05	69.478		
14,800.00	7,875.00	7,522.51	7,380.00	176.57	36.13	68.26	-1,290.44	363.92	6,354.27	6,264.19	90.08	70.543		
14,900.00	7,875.00	7,500.00	7,358.03	179.21	36.01	67.47	-1,286.05	361.73	6,452.50	6,362.46	90.04	71.663		
15,000.00	7,875.00	7,500.00	7,358.03	181.84	36.01	67.47	-1,286.05	361.73	6,550.32	6,460.25	90.07	72.726		
15,100.00	7,875.00	7,500.00	7,358.03	184.48	36.01	67.47	-1,286.05	361.73	6,648.21	6,558.11	90.10	73.789		
15,200.00	7,875.00	7,500.00	7,358.03	187.11	36.01	67.47	-1,286.05	361.73	6,746.15	6,656.03	90.13	74.851		
15,300.00	7,875.00	7,500.00	7,358.03	189.75	36.01	67.47	-1,286.05	361.73	6,844.16	6,754.01	90.16	75.914		
15,400.00	7,875.00	7,500.00	7,358.03	192.39	36.01	67.47	-1,286.05	361.73	6,942.23	6,852.04	90.19	76.976		
15,500.00	7,875.00	7,500.00	7,358.03	195.03	36.01	67.47	-1,286.05	361.73	7,040.35	6,950.13	90.22	78.039		
15,600.00	7,875.00	7,500.00	7,358.03	197.67	36.01	67.47	-1,286.05	361.73	7,138.52	7,048.28	90.25	79.101		
15,700.00	7,875.00	7,500.00	7,358.03	200.32	36.01	67.47	-1,286.05	361.73	7,236.74	7,146.47	90.28	80.162		
15,800.00	7,875.00	7,500.00	7,358.03	202.96	36.01	67.47	-1,286.05	361.73	7,335.01	7,244.71	90.31	81.224		
15,900.00	7,875.00	7,500.00	7,358.03	205.61	36.01	67.47	-1,286.05	361.73	7,433.33	7,342.99	90.34	82.284		
16,000.00	7,875.00	7,500.00	7,358.03	208.26	36.01	67.47	-1,286.05	361.73	7,531.69	7,441.32	90.37	83.345		
16,100.00	7,875.00	7,500.00	7,358.03	210.91	36.01	67.47	-1,286.05	361.73	7,630.09	7,539.70	90.40	84.405		
16,200.00	7,875.00	7,500.00	7,358.03	213.56	36.01	67.47	-1,286.05	361.73	7,728.54	7,638.11	90.43	85.464		
16,300.00	7,875.00	7,500.00	7,358.03	216.21	36.01	67.47	-1,286.05	361.73	7,827.02	7,736.56	90.46	86.523		
16,400.00	7,875.00	7,500.00	7,358.03	218.86	36.01	67.47	-1,286.05	361.73	7,925.54	7,835.05	90.49	87.581		
16,500.00	7,875.00	7,500.00	7,358.03	221.51	36.01	67.47	-1,286.05	361.73	8,024.10	7,933.58	90.53	88.639		
16,600.00	7,875.00	7,500.00	7,358.03	224.16	36.01	67.47	-1,286.05	361.73	8,122.70	8,032.14	90.56	89.695		
16,700.00	7,875.00	7,500.00	7,358.03	226.82	36.01	67.47	-1,286.05	361.73	8,221.32	8,130.73	90.59	90.751		
16,800.00	7,875.00	7,500.00	7,358.03	229.47	36.01	67.47	-1,286.05	361.73	8,319.98	8,229.36	90.63	91.807		
16,900.00	7,875.00	7,500.00	7,358.03	232.13	36.01	67.47	-1,286.05	361.73	8,418.68	8,328.02	90.66	92.861		
17,000.00	7,875.00	7,500.00	7,358.03	234.79	36.01	67.47	-1,286.05	361.73	8,517.40	8,426.71	90.69	93.914		
17,100.00	7,875.00	7,500.00	7,358.03	237.44	36.01	67.47	-1,286.05	361.73	8,616.15	8,525.42	90.73	94.967		
17,200.00	7,875.00	7,500.00	7,358.03	240.10	36.01	67.47	-1,286.05	361.73	8,714.93	8,624.17	90.76	96.019		
17,300.00	7,875.00	7,500.00	7,358.03	242.76	36.01	67.47	-1,286.05	361.73	8,813.74	8,722.94	90.80	97.069		
17,400.00	7,875.00	7,500.00	7,358.03	245.42	36.01	67.47	-1,286.05	361.73	8,912.57	8,821.74	90.83	98.119		
17,500.00	7,875.00	7,500.00	7,358.03	248.08	36.01	67.47	-1,286.05	361.73	9,011.43	8,920.56	90.87	99.168		
17,600.00	7,875.00	7,500.00	7,358.03	250.74	36.01	67.47	-1,286.05	361.73	9,110.32	9,019.41	90.91	100.215		
17,700.00	7,875.00	7,500.00	7,358.03	253.41	36.01	67.47	-1,286.05	361.73	9,209.23	9,118.28	90.94	101.262		
17,800.00	7,875.00	7,500.00	7,358.03	256.07	36.01	67.47	-1,286.05	361.73	9,308.16	9,217.18	90.98	102.307		
17,900.00	7,875.00	7,500.00	7,358.03	258.73	36.01	67.47	-1,286.05	361.73	9,407.11	9,316.09	91.02	103.352		
18,000.00	7,875.00	7,500.00	7,358.03	261.39	36.01	67.47	-1,286.05	361.73	9,506.09	9,415.03	91.06	104.395		
18,100.00	7,875.00	7,500.00	7,358.03	264.06	36.01	67.47	-1,286.05	361.73	9,605.09	9,513.99	91.10	105.437		
18,200.00	7,875.00	7,500.00	7,358.03	266.72	36.01	67.47	-1,286.05	361.73	9,704.11	9,612.97	91.14	106.478		
18,300.00	7,875.00	7,500.00	7,358.03	269.39	36.01	67.47	-1,286.05	361.73	9,803.15	9,711.97	91.18	107.517		
18,400.00	7,875.00	7,500.00	7,358.03	272.05	36.01	67.47	-1,286.05	361.73	9,902.20	9,810.99	91.22	108.555		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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	0.00	24.77	0.00	24.77					
100.00	100.00	100.10	100.10	0.13	0.13	0.00	24.77	0.00	24.77	24.50	0.27	92.010		
200.00	200.00	200.10	200.10	0.49	0.49	0.00	24.77	0.00	24.77	23.78	0.99	25.118		
250.00	250.00	250.10	250.10	0.67	0.67	0.00	24.77	0.00	24.77	23.43	1.34	18.422		
300.00	300.00	300.53	300.53	0.84	0.85	-160.17	24.33	0.09	24.75	23.06	1.69	14.652		
400.00	399.93	401.38	401.31	1.19	1.19	-161.39	20.85	0.77	24.58	22.21	2.37	10.370		
500.00	499.68	502.23	501.90	1.54	1.55	-163.87	13.88	2.13	24.27	21.20	3.07	7.909		
600.00	599.13	603.06	602.16	1.92	1.93	-167.69	3.45	4.17	23.90	20.13	3.78	6.331		
700.00	698.15	703.87	701.97	2.32	2.33	-172.93	-10.44	6.89	23.58	19.09	4.49	5.255		
788.32	785.15	792.88	789.64	2.69	2.71	-178.74	-25.56	9.84	23.46	18.34	5.13	4.578	CC	
800.00	796.63	804.65	801.19	2.74	2.76	-179.59	-27.76	10.27	23.46	18.25	5.21	4.504		
900.00	894.44	905.41	899.71	3.21	3.23	172.49	-48.49	14.33	23.74	17.78	5.96	3.983	ES	
1,000.00	991.46	1,006.13	997.38	3.71	3.73	163.69	-72.59	19.04	24.60	17.83	6.78	3.630		
1,100.00	1,087.58	1,106.19	1,093.81	4.25	4.27	155.97	-98.82	24.17	27.16	19.45	7.71	3.524	SF	
1,200.00	1,182.68	1,206.00	1,189.97	4.83	4.81	152.61	-125.06	29.30	33.12	24.47	8.65	3.828		
1,288.87	1,266.25	1,305.49	1,275.25	5.39	5.36	152.48	-148.32	33.85	41.05	31.53	9.51	4.315		
1,300.00	1,276.66	1,305.58	1,285.91	5.46	5.36	152.58	-151.23	34.42	42.19	32.63	9.56	4.412		
1,400.00	1,370.15	1,405.05	1,381.74	6.12	5.92	153.30	-177.37	39.53	52.49	42.02	10.46	5.016		
1,500.00	1,463.65	1,504.51	1,477.58	6.80	6.48	153.79	-203.52	44.64	62.79	51.42	11.37	5.521		
1,600.00	1,557.15	1,603.98	1,573.41	7.48	7.04	154.14	-229.66	49.76	73.09	60.80	12.29	5.948		
1,700.00	1,650.64	1,703.45	1,669.24	8.16	7.61	154.40	-255.80	54.87	83.40	70.19	13.21	6.313		
1,800.00	1,744.14	1,802.91	1,765.08	8.85	8.18	154.61	-281.95	59.98	93.71	79.57	14.14	6.628		
1,900.00	1,837.64	1,902.38	1,860.91	9.55	8.75	154.77	-308.09	65.09	104.02	88.95	15.07	6.902		
2,000.00	1,931.13	2,001.85	1,956.74	10.24	9.32	154.91	-334.23	70.21	114.33	98.32	16.00	7.144		
2,100.00	2,024.63	2,101.31	2,052.58	10.94	9.89	155.02	-360.38	75.32	124.64	107.70	16.94	7.357		
2,200.00	2,118.12	2,200.78	2,148.41	11.64	10.47	155.12	-386.52	80.43	134.95	117.07	17.88	7.548		
2,300.00	2,211.62	2,300.25	2,244.24	12.35	11.04	155.20	-412.66	85.54	145.26	126.44	18.82	7.719		
2,400.00	2,305.12	2,400.29	2,340.08	13.05	11.62	155.27	-438.81	90.66	155.57	135.81	19.76	7.872		
2,500.00	2,398.61	2,499.18	2,435.91	13.75	12.19	155.33	-464.95	95.77	165.88	145.18	20.70	8.012		
2,600.00	2,492.11	2,598.65	2,531.74	14.46	12.77	155.39	-491.09	100.88	176.19	154.54	21.65	8.139		
2,700.00	2,585.61	2,701.89	2,627.58	15.17	13.36	155.44	-517.24	106.00	186.50	163.89	22.61	8.248		
2,800.00	2,679.10	2,802.42	2,723.41	15.87	13.95	155.48	-543.38	111.11	196.82	173.25	23.56	8.353		
2,900.00	2,772.60	2,902.95	2,819.24	16.58	14.53	155.52	-569.53	116.22	207.13	182.61	24.51	8.450		
3,000.00	2,866.10	3,003.49	2,915.08	17.29	15.11	155.55	-595.67	121.33	217.44	191.97	25.47	8.538		
3,100.00	2,959.59	3,104.02	3,010.91	18.00	15.70	155.59	-621.81	126.45	227.75	201.33	26.42	8.621		
3,200.00	3,053.09	3,204.55	3,106.74	18.71	16.28	155.62	-647.96	131.56	238.06	210.69	27.37	8.697		
3,300.00	3,146.59	3,305.08	3,202.58	19.42	16.87	155.64	-674.10	136.67	248.38	220.05	28.33	8.768		
3,400.00	3,240.08	3,405.62	3,298.41	20.13	17.45	155.67	-700.24	141.78	258.69	229.41	29.28	8.835		
3,500.00	3,333.58	3,506.15	3,394.24	20.84	18.03	155.69	-726.39	146.90	269.00	238.76	30.24	8.897		
3,600.00	3,427.08	3,606.68	3,490.08	21.55	18.62	155.71	-752.53	152.01	279.31	248.12	31.19	8.955		
3,700.00	3,520.57	3,707.22	3,585.91	22.26	19.20	155.73	-778.67	157.12	289.63	257.48	32.15	9.009		
3,800.00	3,614.07	3,792.25	3,681.74	22.97	19.70	155.75	-804.82	162.23	299.94	266.91	33.03	9.081		
3,900.00	3,707.57	3,908.28	3,777.58	23.69	20.37	155.77	-830.96	167.35	310.25	276.19	34.06	9.109		
4,000.00	3,801.06	3,991.18	3,873.41	24.40	20.86	155.78	-857.10	172.46	320.56	285.63	34.93	9.176		
4,100.00	3,894.56	4,109.35	3,969.24	25.11	21.54	155.80	-883.25	177.57	330.88	294.90	35.97	9.198		
4,200.00	3,988.05	4,209.88	4,065.08	25.82	22.13	155.81	-909.39	182.68	341.19	304.26	36.93	9.239		
4,300.00	4,081.55	4,289.58	4,160.91	26.53	22.59	155.83	-935.53	187.80	351.50	313.71	37.79	9.302		
4,400.00	4,175.05	4,389.05	4,256.74	27.25	23.17	155.84	-961.68	192.91	361.81	323.07	38.74	9.339		
4,500.00	4,268.54	4,488.52	4,352.58	27.96	23.75	155.85	-987.82	198.02	372.13	332.43	39.69	9.375		
4,600.00	4,362.04	4,587.98	4,448.41	28.67	24.33	155.86	-1,013.96	203.14	382.44	341.79	40.65	9.409		
4,700.00	4,455.54	4,687.45	4,544.24	29.38	24.91	155.87	-1,040.11	208.25	392.75	351.15	41.60	9.441		
4,800.00	4,549.03	4,786.92	4,640.08	30.10	25.49	155.88	-1,066.25	213.36	403.06	360.51	42.55	9.472		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
4,900.00	4,642.53	4,886.38	4,735.91	30.81	26.07	155.89	-1,092.39	218.47	413.38	369.87	43.51	9.502		
5,000.00	4,736.03	4,985.85	4,831.74	31.52	26.65	155.90	-1,118.54	223.59	423.69	379.23	44.46	9.530		
5,100.00	4,829.52	5,085.32	4,927.58	32.24	27.23	155.91	-1,144.68	228.70	434.00	388.59	45.41	9.557		
5,200.00	4,923.02	5,184.78	5,023.41	32.95	27.81	155.92	-1,170.82	233.81	444.31	397.95	46.37	9.583		
5,300.00	5,016.52	5,284.25	5,119.24	33.66	28.39	155.93	-1,196.97	238.92	454.63	407.31	47.32	9.608		
5,400.00	5,110.01	5,383.72	5,215.08	34.38	28.97	155.94	-1,223.11	244.04	464.94	416.67	48.27	9.632		
5,500.00	5,203.51	5,483.18	5,310.91	35.09	29.55	155.94	-1,249.25	249.15	475.25	426.03	49.23	9.654		
5,600.00	5,297.01	5,582.65	5,406.74	35.80	30.13	155.95	-1,275.40	254.26	485.56	435.38	50.18	9.676		
5,700.00	5,390.50	5,682.12	5,502.58	36.52	30.71	155.96	-1,301.54	259.37	495.88	444.74	51.13	9.698		
5,800.00	5,484.00	5,781.59	5,598.41	37.23	31.29	155.96	-1,327.69	264.49	506.19	454.10	52.09	9.718		
5,900.00	5,577.50	5,881.05	5,694.24	37.94	31.87	155.97	-1,353.83	269.60	516.50	463.46	53.04	9.738		
6,000.00	5,670.99	5,980.52	5,790.08	38.66	32.45	155.97	-1,379.97	274.71	526.82	472.82	54.00	9.757		
6,100.00	5,764.49	6,079.99	5,885.91	39.37	33.03	155.98	-1,406.12	279.82	537.13	482.18	54.95	9.775		
6,200.00	5,857.98	6,179.45	5,981.74	40.08	33.61	155.99	-1,432.26	284.94	547.44	491.54	55.90	9.792		
6,300.00	5,951.48	6,278.92	6,077.58	40.80	34.19	155.99	-1,458.40	290.05	557.75	500.89	56.86	9.809		
6,400.00	6,044.98	6,378.39	6,173.41	41.51	34.77	156.00	-1,484.55	295.16	568.07	510.25	57.81	9.826		
6,500.00	6,138.47	6,477.85	6,269.24	42.22	35.35	156.00	-1,510.69	300.28	578.38	519.61	58.77	9.842		
6,600.00	6,231.97	6,577.32	6,365.08	42.94	35.93	156.01	-1,536.83	305.39	588.69	528.97	59.72	9.857		
6,700.00	6,325.47	6,676.79	6,460.91	43.65	36.51	156.01	-1,562.98	310.50	599.00	538.33	60.68	9.872		
6,800.00	6,418.96	6,776.25	6,556.74	44.37	37.09	156.01	-1,589.12	315.61	609.32	547.69	61.63	9.887		
6,900.00	6,512.46	6,875.72	6,652.58	45.08	37.67	156.02	-1,615.26	320.73	619.63	557.04	62.59	9.901		
7,000.00	6,605.96	6,975.19	6,748.41	45.79	38.25	156.02	-1,641.41	325.84	629.94	566.40	63.54	9.914		
7,100.00	6,699.45	7,074.65	6,844.24	46.51	38.83	156.03	-1,667.55	330.95	640.26	575.76	64.49	9.927		
7,200.00	6,792.95	7,174.12	6,940.08	47.22	39.41	156.03	-1,693.69	336.06	650.57	585.12	65.45	9.940		
7,300.00	6,886.45	7,273.59	7,035.91	47.94	39.99	156.03	-1,719.84	341.18	660.88	594.48	66.40	9.952		
7,400.00	6,979.94	7,373.05	7,131.74	48.65	40.57	156.04	-1,745.98	346.29	671.19	603.83	67.36	9.964		
7,500.00	7,073.44	7,472.52	7,227.58	49.36	41.15	156.04	-1,772.12	351.40	681.51	613.19	68.31	9.976		
7,600.00	7,166.94	7,571.99	7,323.41	50.08	41.73	156.05	-1,798.27	356.51	691.82	622.55	69.27	9.987		
7,700.00	7,260.43	7,671.45	7,419.24	50.79	42.31	156.05	-1,824.41	361.63	702.13	631.91	70.22	9.998		
7,710.39	7,270.15	7,693.25	7,440.23	50.87	42.44	156.06	-1,830.14	362.91	703.19	632.78	70.40	9.988		
7,750.00	7,307.31	7,939.03	7,665.58	51.14	43.95	149.90	-1,892.27	432.53	699.80	632.12	67.68	10.340		
7,800.00	7,354.38	8,142.06	7,816.60	51.46	45.21	147.48	-1,934.83	559.69	681.57	620.27	61.29	11.120		
7,850.00	7,401.31	8,242.64	7,873.05	51.75	45.84	144.62	-1,951.13	641.17	657.42	598.27	59.15	11.115		
7,900.00	7,447.74	8,290.60	7,894.91	52.00	46.15	140.55	-1,957.56	683.35	632.75	573.10	59.64	10.609		
7,950.00	7,493.32	8,312.01	7,903.55	52.22	46.28	136.19	-1,960.13	702.77	609.81	548.67	61.13	9.975		
8,000.00	7,537.69	8,318.83	7,906.15	52.41	46.33	132.03	-1,960.91	709.03	589.74	526.81	62.93	9.371		
8,050.00	7,580.52	8,316.95	7,905.44	52.57	46.31	128.16	-1,960.70	707.30	573.20	508.48	64.72	8.856		
8,100.00	7,621.49	8,309.51	7,902.58	52.70	46.27	124.48	-1,959.84	700.48	560.62	494.25	66.37	8.447		
8,150.00	7,660.28	8,298.31	7,898.10	52.81	46.20	120.89	-1,958.51	690.31	552.20	484.41	67.79	8.146		
8,200.00	7,696.59	8,284.47	7,892.31	52.89	46.11	117.32	-1,956.79	677.86	548.01	479.04	68.96	7.946		
8,225.71	7,714.21	8,276.57	7,888.87	52.92	46.06	115.46	-1,955.77	670.82	547.47	478.00	69.47	7.880		
8,250.00	7,730.16	8,268.71	7,885.36	52.95	46.01	113.69	-1,954.74	663.87	547.94	478.04	69.90	7.839		
8,300.00	7,760.72	8,251.50	7,877.35	52.98	45.90	109.98	-1,952.38	648.82	551.75	481.11	70.64	7.811		
8,350.00	7,788.05	8,233.19	7,868.35	53.00	45.78	106.18	-1,949.75	633.09	559.10	487.84	71.26	7.846		
8,400.00	7,811.93	8,214.00	7,858.40	53.00	45.66	102.32	-1,946.86	616.94	569.53	497.73	71.80	7.932		
8,450.00	7,832.18	8,194.12	7,847.55	52.99	45.53	98.42	-1,943.72	600.58	582.58	510.23	72.35	8.052		
8,500.00	7,848.65	8,173.69	7,835.83	52.95	45.41	94.55	-1,940.35	584.19	597.75	524.81	72.94	8.195		
8,550.00	7,861.21	8,150.00	7,821.55	52.91	45.26	90.54	-1,936.25	565.74	614.57	541.15	73.42	8.371		
8,600.00	7,869.78	8,131.52	7,809.91	52.85	45.14	87.10	-1,932.92	551.78	632.54	558.18	74.36	8.506		
8,650.00	7,874.27	8,109.94	7,795.76	52.78	45.01	83.66	-1,928.89	535.99	651.29	576.08	75.21	8.660		
8,679.79	7,875.00	8,100.00	7,789.06	52.74	44.95	81.91	-1,926.98	528.90	662.67	586.73	75.95	8.725		
8,700.00	7,875.00	8,088.24	7,780.97	52.70	44.87	81.19	-1,924.69	520.68	670.58	594.45	76.13	8.809		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
8,800.00	7,875.00	8,050.00	7,753.58	52.56	44.64	78.83	-1,916.94	495.16	714.54	636.37	78.18	9.140		
8,900.00	7,875.00	8,015.18	7,727.26	52.44	44.42	76.64	-1,909.53	473.61	766.02	685.90	80.12	9.561		
9,000.00	7,875.00	7,986.06	7,704.30	52.34	44.24	74.81	-1,903.09	456.90	824.17	742.16	82.01	10.049		
9,100.00	7,875.00	7,950.00	7,674.78	52.27	44.01	72.55	-1,894.84	437.91	888.24	805.03	83.21	10.675		
9,200.00	7,875.00	7,950.00	7,674.78	52.22	44.01	72.55	-1,894.84	437.91	957.10	871.44	85.66	11.173		
9,300.00	7,875.00	7,919.44	7,648.90	52.20	43.82	70.66	-1,887.63	423.36	1,029.94	943.48	86.47	11.911		
9,400.00	7,875.00	7,900.00	7,632.06	52.24	43.70	69.48	-1,882.95	414.86	1,106.43	1,018.98	87.46	12.651		
9,500.00	7,875.00	7,900.00	7,632.06	52.35	43.70	69.48	-1,882.95	414.86	1,186.02	1,097.22	88.81	13.355		
9,600.00	7,875.00	7,873.72	7,608.86	52.62	43.54	67.90	-1,876.51	404.31	1,267.70	1,178.52	89.18	14.215		
9,700.00	7,875.00	7,850.00	7,587.55	53.16	43.39	66.51	-1,870.61	395.75	1,351.80	1,262.28	89.52	15.100		
9,800.00	7,875.00	7,850.00	7,587.55	54.13	43.39	66.51	-1,870.61	395.75	1,437.36	1,347.05	90.31	15.915		
9,900.00	7,875.00	7,850.00	7,587.55	55.55	43.39	66.51	-1,870.61	395.75	1,524.68	1,433.73	90.95	16.764		
10,000.00	7,875.00	7,831.79	7,570.95	57.28	43.28	65.46	-1,866.03	389.80	1,613.10	1,521.97	91.13	17.701		
10,100.00	7,875.00	7,823.58	7,563.42	59.21	43.23	65.00	-1,863.95	387.30	1,702.73	1,611.29	91.44	18.621		
10,200.00	7,875.00	7,800.00	7,541.59	61.26	43.09	63.68	-1,857.93	380.75	1,793.61	1,702.17	91.45	19.614		
10,300.00	7,875.00	7,800.00	7,541.59	63.38	43.09	63.68	-1,857.93	380.75	1,884.86	1,793.07	91.79	20.535		
10,400.00	7,875.00	7,800.00	7,541.59	65.57	43.09	63.68	-1,857.93	380.75	1,976.95	1,884.88	92.07	21.472		
10,500.00	7,875.00	7,800.00	7,541.59	67.80	43.09	63.68	-1,857.93	380.75	2,069.78	1,977.47	92.31	22.423		
10,600.00	7,875.00	7,800.00	7,541.59	70.07	43.09	63.68	-1,857.93	380.75	2,163.24	2,070.74	92.51	23.384		
10,700.00	7,875.00	7,800.00	7,541.59	72.37	43.09	63.68	-1,857.93	380.75	2,257.27	2,164.59	92.68	24.356		
10,800.00	7,875.00	7,800.00	7,541.59	74.70	43.09	63.68	-1,857.93	380.75	2,351.79	2,258.97	92.82	25.337		
10,900.00	7,875.00	7,777.24	7,520.28	77.06	42.95	62.45	-1,852.07	375.30	2,446.20	2,353.49	92.71	26.385		
11,000.00	7,875.00	7,773.11	7,516.39	79.44	42.92	62.23	-1,851.00	374.41	2,541.33	2,448.54	92.79	27.389		
11,100.00	7,875.00	7,750.00	7,494.53	81.84	42.78	61.02	-1,845.00	369.95	2,637.17	2,544.50	92.67	28.458		
11,200.00	7,875.00	7,750.00	7,494.53	84.26	42.78	61.02	-1,845.00	369.95	2,732.80	2,640.03	92.77	29.458		
11,300.00	7,875.00	7,750.00	7,494.53	86.69	42.78	61.02	-1,845.00	369.95	2,828.72	2,735.87	92.85	30.464		
11,400.00	7,875.00	7,750.00	7,494.53	89.14	42.78	61.02	-1,845.00	369.95	2,924.92	2,831.99	92.93	31.475		
11,500.00	7,875.00	7,750.00	7,494.53	91.60	42.78	61.02	-1,845.00	369.95	3,021.36	2,928.37	92.99	32.490		
11,600.00	7,875.00	7,750.00	7,494.53	94.07	42.78	61.02	-1,845.00	369.95	3,118.03	3,024.98	93.05	33.508		
11,700.00	7,875.00	7,750.00	7,494.53	96.56	42.78	61.02	-1,845.00	369.95	3,214.90	3,121.80	93.11	34.529		
11,800.00	7,875.00	7,750.00	7,494.53	99.05	42.78	61.02	-1,845.00	369.95	3,311.96	3,218.81	93.15	35.554		
11,900.00	7,875.00	7,750.00	7,494.53	101.56	42.78	61.02	-1,845.00	369.95	3,409.19	3,316.00	93.20	36.581		
12,000.00	7,875.00	7,750.00	7,494.53	104.07	42.78	61.02	-1,845.00	369.95	3,506.58	3,413.34	93.23	37.610		
12,100.00	7,875.00	7,750.00	7,494.53	106.60	42.78	61.02	-1,845.00	369.95	3,604.10	3,510.83	93.27	38.642		
12,200.00	7,875.00	7,750.00	7,494.53	109.13	42.78	61.02	-1,845.00	369.95	3,701.76	3,608.46	93.30	39.675		
12,300.00	7,875.00	7,750.00	7,494.53	111.66	42.78	61.02	-1,845.00	369.95	3,799.54	3,706.21	93.33	40.710		
12,400.00	7,875.00	7,750.00	7,494.53	114.21	42.78	61.02	-1,845.00	369.95	3,897.44	3,804.08	93.36	41.746		
12,500.00	7,875.00	7,750.00	7,494.53	116.76	42.78	61.02	-1,845.00	369.95	3,995.44	3,902.05	93.39	42.784		
12,600.00	7,875.00	7,750.00	7,494.53	119.32	42.78	61.02	-1,845.00	369.95	4,093.53	4,000.12	93.41	43.822		
12,700.00	7,875.00	7,750.00	7,494.53	121.88	42.78	61.02	-1,845.00	369.95	4,191.72	4,098.28	93.44	44.862		
12,800.00	7,875.00	7,727.59	7,473.17	124.45	42.65	59.89	-1,839.15	366.50	4,289.49	4,196.16	93.33	45.961		
12,900.00	7,875.00	7,726.03	7,471.68	127.02	42.64	59.81	-1,838.74	366.30	4,387.77	4,294.43	93.35	47.006		
13,000.00	7,875.00	7,724.53	7,470.24	129.60	42.63	59.74	-1,838.34	366.10	4,486.12	4,392.76	93.36	48.052		
13,100.00	7,875.00	7,723.08	7,468.86	132.18	42.62	59.67	-1,837.96	365.91	4,584.54	4,491.16	93.38	49.098		
13,200.00	7,875.00	7,700.00	7,446.72	134.77	42.48	58.55	-1,831.91	363.45	4,683.47	4,590.20	93.27	50.213		
13,300.00	7,875.00	7,700.00	7,446.72	137.36	42.48	58.55	-1,831.91	363.45	4,781.96	4,688.66	93.30	51.255		
13,400.00	7,875.00	7,700.00	7,446.72	139.96	42.48	58.55	-1,831.91	363.45	4,880.50	4,787.18	93.32	52.298		
13,500.00	7,875.00	7,700.00	7,446.72	142.55	42.48	58.55	-1,831.91	363.45	4,979.11	4,885.76	93.34	53.341		
13,600.00	7,875.00	7,700.00	7,446.72	145.15	42.48	58.55	-1,831.91	363.45	5,077.76	4,984.40	93.37	54.385		
13,700.00	7,875.00	7,700.00	7,446.72	147.76	42.48	58.55	-1,831.91	363.45	5,176.47	5,083.08	93.39	55.428		
13,800.00	7,875.00	7,700.00	7,446.72	150.37	42.48	58.55	-1,831.91	363.45	5,275.23	5,181.82	93.41	56.471		
13,900.00	7,875.00	7,700.00	7,446.72	152.98	42.48	58.55	-1,831.91	363.45	5,374.04	5,280.60	93.44	57.515		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
14,000.00	7,875.00	7,700.00	7,446.72	155.59	42.48	58.55	-1,831.91	363.45	5,472.88	5,379.42	93.46	58.558		
14,100.00	7,875.00	7,700.00	7,446.72	158.20	42.48	58.55	-1,831.91	363.45	5,571.77	5,478.29	93.48	59.601		
14,200.00	7,875.00	7,700.00	7,446.72	160.82	42.48	58.55	-1,831.91	363.45	5,670.70	5,577.19	93.51	60.644		
14,300.00	7,875.00	7,700.00	7,446.72	163.44	42.48	58.55	-1,831.91	363.45	5,769.66	5,676.13	93.53	61.686		
14,400.00	7,875.00	7,700.00	7,446.72	166.06	42.48	58.55	-1,831.91	363.45	5,868.66	5,775.11	93.56	62.729		
14,500.00	7,875.00	7,700.00	7,446.72	168.69	42.48	58.55	-1,831.91	363.45	5,967.70	5,874.12	93.58	63.770		
14,600.00	7,875.00	7,700.00	7,446.72	171.32	42.48	58.55	-1,831.91	363.45	6,066.76	5,973.16	93.61	64.812		
14,700.00	7,875.00	7,700.00	7,446.72	173.94	42.48	58.55	-1,831.91	363.45	6,165.86	6,072.23	93.63	65.853		
14,800.00	7,875.00	7,700.00	7,446.72	176.57	42.48	58.55	-1,831.91	363.45	6,264.98	6,171.32	93.66	66.893		
14,900.00	7,875.00	7,700.00	7,446.72	179.21	42.48	58.55	-1,831.91	363.45	6,364.13	6,270.45	93.68	67.933		
15,000.00	7,875.00	7,700.00	7,446.72	181.84	42.48	58.55	-1,831.91	363.45	6,463.31	6,369.60	93.71	68.972		
15,100.00	7,875.00	7,700.00	7,446.72	184.48	42.48	58.55	-1,831.91	363.45	6,562.51	6,468.77	93.74	70.010		
15,200.00	7,875.00	7,700.00	7,446.72	187.11	42.48	58.55	-1,831.91	363.45	6,661.74	6,567.97	93.76	71.048		
15,300.00	7,875.00	7,700.00	7,446.72	189.75	42.48	58.55	-1,831.91	363.45	6,760.99	6,667.19	93.79	72.085		
15,400.00	7,875.00	7,700.00	7,446.72	192.39	42.48	58.55	-1,831.91	363.45	6,860.26	6,766.44	93.82	73.122		
15,500.00	7,875.00	7,700.00	7,446.72	195.03	42.48	58.55	-1,831.91	363.45	6,959.55	6,865.70	93.85	74.158		
15,600.00	7,875.00	7,700.00	7,446.72	197.67	42.48	58.55	-1,831.91	363.45	7,058.86	6,964.98	93.88	75.192		
15,700.00	7,875.00	7,700.00	7,446.72	200.32	42.48	58.55	-1,831.91	363.45	7,158.19	7,064.28	93.91	76.226		
15,800.00	7,875.00	7,700.00	7,446.72	202.96	42.48	58.55	-1,831.91	363.45	7,257.54	7,163.60	93.94	77.259		
15,900.00	7,875.00	7,700.00	7,446.72	205.61	42.48	58.55	-1,831.91	363.45	7,356.91	7,262.94	93.97	78.292		
16,000.00	7,875.00	7,700.00	7,446.72	208.26	42.48	58.55	-1,831.91	363.45	7,456.29	7,362.29	94.00	79.323		
16,100.00	7,875.00	7,700.00	7,446.72	210.91	42.48	58.55	-1,831.91	363.45	7,555.69	7,461.66	94.03	80.353		
16,200.00	7,875.00	7,700.00	7,446.72	213.56	42.48	58.55	-1,831.91	363.45	7,655.11	7,561.04	94.06	81.383		
16,300.00	7,875.00	7,700.00	7,446.72	216.21	42.48	58.55	-1,831.91	363.45	7,754.54	7,660.44	94.10	82.411		
16,400.00	7,875.00	7,700.00	7,446.72	218.86	42.48	58.55	-1,831.91	363.45	7,853.98	7,759.85	94.13	83.438		
16,500.00	7,875.00	7,700.00	7,446.72	221.51	42.48	58.55	-1,831.91	363.45	7,953.44	7,859.28	94.16	84.464		
16,600.00	7,875.00	7,700.00	7,446.72	224.16	42.48	58.55	-1,831.91	363.45	8,052.91	7,958.72	94.20	85.490		
16,700.00	7,875.00	7,700.00	7,446.72	226.82	42.48	58.55	-1,831.91	363.45	8,152.40	8,058.17	94.23	86.514		
16,800.00	7,875.00	7,700.00	7,446.72	229.47	42.48	58.55	-1,831.91	363.45	8,251.90	8,157.63	94.27	87.537		
16,900.00	7,875.00	7,700.00	7,446.72	232.13	42.48	58.55	-1,831.91	363.45	8,351.41	8,257.10	94.30	88.559		
17,000.00	7,875.00	7,700.00	7,446.72	234.79	42.48	58.55	-1,831.91	363.45	8,450.93	8,356.59	94.34	89.579		
17,100.00	7,875.00	7,700.00	7,446.72	237.44	42.48	58.55	-1,831.91	363.45	8,550.46	8,456.08	94.38	90.599		
17,200.00	7,875.00	7,700.00	7,446.72	240.10	42.48	58.55	-1,831.91	363.45	8,650.00	8,555.59	94.41	91.617		
17,300.00	7,875.00	7,690.34	7,437.44	242.76	42.42	58.09	-1,829.37	362.70	8,749.47	8,655.06	94.41	92.673		
17,400.00	7,875.00	7,689.92	7,437.03	245.42	42.42	58.07	-1,829.26	362.67	8,849.03	8,754.58	94.45	93.691		
17,500.00	7,875.00	7,689.50	7,436.63	248.08	42.42	58.05	-1,829.15	362.64	8,948.59	8,854.11	94.49	94.708		
17,600.00	7,875.00	7,679.74	7,427.23	250.74	42.36	57.60	-1,826.59	362.05	9,048.25	8,953.76	94.48	95.764		
17,700.00	7,875.00	7,679.74	7,427.23	253.41	42.36	57.60	-1,826.59	362.05	9,147.83	9,053.30	94.53	96.777		
17,800.00	7,875.00	7,679.74	7,427.23	256.07	42.36	57.60	-1,826.59	362.05	9,247.41	9,152.85	94.57	97.788		
17,900.00	7,875.00	7,679.74	7,427.23	258.73	42.36	57.60	-1,826.59	362.05	9,347.01	9,252.40	94.61	98.798		
18,000.00	7,875.00	7,679.74	7,427.23	261.39	42.36	57.60	-1,826.59	362.05	9,446.61	9,351.96	94.65	99.806		
18,100.00	7,875.00	7,679.74	7,427.23	264.06	42.36	57.60	-1,826.59	362.05	9,546.22	9,451.53	94.69	100.813		
18,200.00	7,875.00	7,679.74	7,427.23	266.72	42.36	57.60	-1,826.59	362.05	9,645.84	9,551.11	94.73	101.819		
18,300.00	7,875.00	7,679.74	7,427.23	269.39	42.36	57.60	-1,826.59	362.05	9,745.47	9,650.69	94.78	102.824		
18,400.00	7,875.00	7,679.74	7,427.23	272.05	42.36	57.60	-1,826.59	362.05	9,845.11	9,750.28	94.82	103.827		
18,500.00	7,875.00	7,679.74	7,427.23	274.72	42.36	57.60	-1,826.59	362.05	9,944.75	9,849.88	94.87	104.828		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	179.36	-25.14	0.28	25.14					
100.00	100.00	100.00	100.00	0.13	0.13	179.36	-25.14	0.28	25.14	24.87	0.27	93.509		
200.00	200.00	200.00	200.00	0.49	0.49	179.36	-25.14	0.28	25.14	24.15	0.99	25.503		
250.00	250.00	250.00	250.00	0.67	0.67	179.36	-25.14	0.28	25.14	23.80	1.34	18.702		
300.00	300.00	299.57	299.57	0.84	0.84	19.53	-25.56	0.35	25.16	23.47	1.69	14.924		
400.00	399.93	398.70	398.64	1.19	1.18	21.02	-28.95	0.87	25.30	22.94	2.36	10.718		
500.00	499.68	497.83	497.52	1.54	1.53	23.94	-35.73	1.92	25.64	22.58	3.05	8.392		
600.00	599.13	596.94	596.10	1.92	1.90	28.16	-45.87	3.49	26.26	22.50	3.76	6.979		
700.00	698.15	696.04	694.24	2.32	2.30	33.43	-59.38	5.59	27.30	22.81	4.49	6.078		
800.00	796.63	795.10	791.82	2.74	2.72	39.40	-76.23	8.20	28.90	23.64	5.26	5.495		
900.00	894.44	894.14	888.73	3.21	3.18	45.66	-96.40	11.32	31.19	25.10	6.09	5.120		
1,000.00	991.46	993.14	984.84	3.71	3.67	51.80	-119.86	14.96	34.25	27.24	7.01	4.887		
1,100.00	1,087.58	1,092.10	1,080.03	4.25	4.20	57.50	-146.57	19.10	38.13	30.11	8.03	4.751		
1,200.00	1,182.68	1,191.02	1,174.19	4.83	4.77	62.60	-176.50	23.74	42.86	33.70	9.16	4.681		
1,288.87	1,266.25	1,279.28	1,257.40	5.39	5.31	66.91	-205.60	28.24	47.57	37.30	10.27	4.633		
1,300.00	1,276.66	1,309.62	1,267.84	5.46	5.51	67.55	-209.30	28.82	48.14	37.61	10.53	4.574		
1,400.00	1,370.15	1,409.86	1,361.75	6.12	6.15	72.66	-242.56	33.97	53.46	41.57	11.89	4.496		
1,500.00	1,463.65	1,489.90	1,455.66	6.80	6.66	76.81	-275.81	39.12	59.13	45.98	13.15	4.497		
1,600.00	1,557.15	1,589.65	1,549.57	7.48	7.31	80.23	-309.07	44.28	65.05	50.52	14.54	4.476		
1,700.00	1,650.64	1,689.41	1,643.48	8.16	7.97	83.06	-342.32	49.43	71.17	55.25	15.92	4.469		
1,800.00	1,744.14	1,789.16	1,737.38	8.85	8.63	85.45	-375.58	54.58	77.43	60.12	17.31	4.473		
1,900.00	1,837.64	1,888.92	1,831.29	9.55	9.29	87.47	-408.84	59.74	83.81	65.11	18.70	4.482		
2,000.00	1,931.13	1,988.68	1,925.20	10.24	9.95	89.21	-442.09	64.89	90.27	70.19	20.08	4.495		
2,100.00	2,024.63	2,088.43	2,019.11	10.94	10.62	90.71	-475.35	70.04	96.81	75.35	21.46	4.510		
2,200.00	2,118.12	2,188.19	2,113.02	11.64	11.29	92.03	-508.60	75.20	103.41	80.56	22.84	4.527		
2,300.00	2,211.62	2,287.94	2,206.93	12.35	11.96	93.18	-541.86	80.35	110.05	85.83	24.22	4.543		
2,400.00	2,305.12	2,387.70	2,300.83	13.05	12.63	94.20	-575.12	85.50	116.73	91.13	25.60	4.560		
2,500.00	2,398.61	2,487.46	2,394.74	13.75	13.30	95.11	-608.37	90.66	123.44	96.47	26.97	4.576		
2,600.00	2,492.11	2,587.21	2,488.65	14.46	13.97	95.93	-641.63	95.81	130.19	101.84	28.35	4.592		
2,700.00	2,585.61	2,686.97	2,582.56	15.17	14.65	96.67	-674.88	100.96	136.95	107.23	29.72	4.608		
2,800.00	2,679.10	2,786.72	2,676.47	15.87	15.32	97.34	-708.14	106.12	143.74	112.65	31.09	4.623		
2,900.00	2,772.60	2,886.48	2,770.37	16.58	16.00	97.94	-741.40	111.27	150.55	118.08	32.46	4.637		
3,000.00	2,866.10	2,986.24	2,864.28	17.29	16.67	98.50	-774.65	116.42	157.37	123.53	33.83	4.651		
3,100.00	2,959.59	3,085.99	2,958.19	18.00	17.35	99.01	-807.91	121.58	164.20	129.00	35.20	4.664		
3,200.00	3,053.09	3,185.75	3,052.10	18.71	18.02	99.48	-841.17	126.73	171.05	134.48	36.57	4.677		
3,300.00	3,146.59	3,285.51	3,146.01	19.42	18.70	99.91	-874.42	131.88	177.90	139.96	37.94	4.689		
3,400.00	3,240.08	3,385.26	3,239.92	20.13	19.37	100.31	-907.68	137.04	184.77	145.46	39.31	4.701		
3,500.00	3,333.58	3,485.02	3,333.82	20.84	20.05	100.68	-940.93	142.19	191.64	150.97	40.67	4.712		
3,600.00	3,427.08	3,584.77	3,427.73	21.55	20.73	101.02	-974.19	147.34	198.52	156.48	42.04	4.722		
3,700.00	3,520.57	3,684.53	3,521.64	22.26	21.41	101.35	-1,007.45	152.50	205.41	162.00	43.41	4.732		
3,800.00	3,614.07	3,784.29	3,615.55	22.97	22.08	101.65	-1,040.70	157.65	212.31	167.53	44.77	4.742		
3,900.00	3,707.57	3,884.04	3,709.46	23.69	22.76	101.93	-1,073.96	162.80	219.20	173.07	46.14	4.751		
4,000.00	3,801.06	3,983.80	3,803.36	24.40	23.44	102.20	-1,107.21	167.96	226.11	178.61	47.50	4.760		
4,100.00	3,894.56	4,083.55	3,897.27	25.11	24.12	102.45	-1,140.47	173.11	233.02	184.15	48.87	4.768		
4,200.00	3,988.05	4,183.31	3,991.18	25.82	24.79	102.68	-1,173.73	178.26	239.93	189.70	50.23	4.776		
4,300.00	4,081.55	4,283.07	4,085.09	26.53	25.47	102.90	-1,206.98	183.41	246.85	195.25	51.60	4.784		
4,400.00	4,175.05	4,382.82	4,179.00	27.25	26.15	103.11	-1,240.24	188.57	253.77	200.81	52.96	4.792		
4,500.00	4,268.54	4,482.58	4,272.91	27.96	26.83	103.31	-1,273.49	193.72	260.69	206.37	54.33	4.799		
4,600.00	4,362.04	4,582.33	4,366.81	28.67	27.51	103.50	-1,306.75	198.87	267.62	211.93	55.69	4.805		
4,700.00	4,455.54	4,682.09	4,460.72	29.38	28.19	103.68	-1,340.01	204.03	274.55	217.49	57.05	4.812		
4,800.00	4,549.03	4,781.85	4,554.63	30.10	28.87	103.85	-1,373.26	209.18	281.48	223.06	58.42	4.818		
4,900.00	4,642.53	4,881.60	4,648.54	30.81	29.54	104.01	-1,406.52	214.33	288.41	228.63	59.78	4.824		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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			
5,000.00	4,736.03	4,981.36	4,742.45	31.52	30.22	104.16	-1,439.78	219.49	295.35	234.20	61.15	4.830			
5,100.00	4,829.52	5,081.11	4,836.36	32.24	30.90	104.31	-1,473.03	224.64	302.29	239.78	62.51	4.836			
5,200.00	4,923.02	5,180.87	4,930.26	32.95	31.58	104.45	-1,506.29	229.79	309.23	245.36	63.87	4.841			
5,300.00	5,016.52	5,280.63	5,024.17	33.66	32.26	104.59	-1,539.54	234.95	316.17	250.94	65.24	4.847			
5,400.00	5,110.01	5,380.38	5,118.08	34.38	32.94	104.72	-1,572.80	240.10	323.11	256.52	66.60	4.852			
5,500.00	5,203.51	5,480.14	5,211.99	35.09	33.62	104.84	-1,606.06	245.25	330.06	262.10	67.96	4.857			
5,600.00	5,297.01	5,579.89	5,305.90	35.80	34.30	104.96	-1,639.31	250.41	337.01	267.68	69.32	4.861			
5,700.00	5,390.50	5,679.65	5,399.80	36.52	34.98	105.07	-1,672.57	255.56	343.95	273.27	70.69	4.866			
5,800.00	5,484.00	5,779.41	5,493.71	37.23	35.66	105.18	-1,705.82	260.71	350.90	278.85	72.05	4.870			
5,900.00	5,577.50	5,879.16	5,587.62	37.94	36.34	105.28	-1,739.08	265.87	357.85	284.44	73.41	4.875			
6,000.00	5,670.99	5,978.92	5,681.53	38.66	37.02	105.39	-1,772.34	271.02	364.81	290.03	74.78	4.879			
6,100.00	5,764.49	6,078.67	5,775.44	39.37	37.69	105.48	-1,805.59	276.17	371.76	295.62	76.14	4.883			
6,200.00	5,857.98	6,178.43	5,869.35	40.08	38.37	105.58	-1,838.85	281.33	378.71	301.21	77.50	4.887			
6,300.00	5,951.48	6,278.19	5,963.25	40.80	39.05	105.67	-1,872.10	286.48	385.67	306.80	78.86	4.890			
6,400.00	6,044.98	6,377.94	6,057.16	41.51	39.73	105.75	-1,905.36	291.63	392.62	312.40	80.23	4.894			
6,500.00	6,138.47	6,477.70	6,151.07	42.22	40.41	105.84	-1,938.62	296.79	399.58	317.99	81.59	4.897			
6,600.00	6,231.97	6,577.46	6,244.98	42.94	41.09	105.92	-1,971.87	301.94	406.54	323.59	82.95	4.901			
6,700.00	6,325.47	6,677.21	6,338.89	43.65	41.77	106.00	-2,005.13	307.09	413.50	329.18	84.31	4.904			
6,800.00	6,418.96	6,776.97	6,432.79	44.37	42.45	106.07	-2,038.38	312.25	420.45	334.78	85.68	4.907			
6,900.00	6,512.46	6,876.72	6,526.70	45.08	43.13	106.14	-2,071.64	317.40	427.41	340.38	87.04	4.911			
7,000.00	6,605.96	6,976.48	6,620.61	45.79	43.81	106.21	-2,104.90	322.55	434.37	345.97	88.40	4.914			
7,100.00	6,699.45	7,076.24	6,714.52	46.51	44.49	106.28	-2,138.15	327.71	441.34	351.57	89.76	4.917			
7,200.00	6,792.95	7,175.99	6,808.43	47.22	45.17	106.35	-2,171.41	332.86	448.30	357.17	91.13	4.920			
7,300.00	6,886.45	7,275.75	6,902.34	47.94	45.85	106.41	-2,204.67	338.01	455.26	362.77	92.49	4.922			
7,400.00	6,979.94	7,375.50	6,996.24	48.65	46.53	106.48	-2,237.92	343.16	462.22	368.37	93.85	4.925			
7,500.00	7,073.44	7,475.26	7,090.15	49.36	47.21	106.54	-2,271.18	348.32	469.18	373.97	95.21	4.928			
7,600.00	7,166.94	7,575.02	7,184.06	50.08	47.89	106.60	-2,304.43	353.47	476.15	379.57	96.57	4.930			
7,700.00	7,260.43	7,674.77	7,277.97	50.79	48.57	106.65	-2,337.69	358.62	483.11	385.18	97.94	4.933			
7,710.39	7,270.15	7,685.14	7,287.72	50.87	48.64	106.66	-2,341.14	359.16	483.84	385.76	98.08	4.933			
7,750.00	7,307.31	7,724.71	7,324.98	51.14	48.91	96.26	-2,354.34	361.20	485.23	386.61	98.62	4.920			
7,800.00	7,354.38	7,800.00	7,385.04	51.46	49.43	82.31	-2,375.61	365.12	482.66	383.15	99.51	4.851			
7,850.00	7,401.31	7,850.00	7,404.02	51.75	49.81	68.44	-2,453.86	438.30	460.81	368.60	92.20	4.998			
7,900.00	7,447.74	7,900.00	7,416.30	52.00	50.30	55.39	-2,494.59	529.03	422.19	341.93	80.26	5.260			
7,950.00	7,493.32	8,281.05	7,775.07	52.22	52.74	41.81	-2,516.20	601.79	376.93	305.69	71.24	5.291			
8,000.00	7,537.69	8,313.54	7,792.10	52.41	52.95	25.85	-2,522.52	628.71	328.59	260.92	67.67	4.856			
8,050.00	7,580.52	8,326.87	7,798.67	52.57	53.04	-5.72	-2,524.98	640.06	279.10	212.79	66.31	4.209			
8,100.00	7,621.49	8,329.12	7,799.75	52.70	53.05	-69.37	-2,525.38	641.99	229.28	162.96	66.31	3.457			
8,150.00	7,660.28	8,324.47	7,797.50	52.81	53.02	-102.09	-2,524.54	638.00	179.60	112.35	67.25	2.671			
8,200.00	7,696.59	8,315.27	7,792.96	52.89	52.97	-110.89	-2,522.85	630.17	130.45	61.50	68.95	1.892			
8,250.00	7,730.16	8,302.90	7,786.68	52.95	52.89	-108.63	-2,520.51	619.79	82.30	10.72	71.58	1.150	Level 2		
8,300.00	7,760.72	8,288.27	7,778.98	52.98	52.79	-91.86	-2,517.65	607.68	37.00	-39.31	76.31	0.485	Level 1		
8,333.65	7,779.48	8,277.45	7,773.09	53.00	52.72	-66.09	-2,515.46	598.87	18.66	-52.69	71.35	0.262	Level 1, CC, ES, SF		
8,350.00	7,788.05	8,271.96	7,770.04	53.00	52.68	-50.43	-2,514.34	594.44	24.18	-40.08	64.25	0.376	Level 1		
8,400.00	7,811.93	8,254.36	7,760.01	53.00	52.57	-14.54	-2,510.63	580.46	64.45	-5.28	69.73	0.924	Level 1		
8,450.00	7,832.18	8,235.77	7,748.98	52.99	52.45	0.42	-2,506.57	566.06	108.51	35.06	73.45	1.477	Level 3		
8,500.00	7,848.65	8,216.39	7,737.01	52.95	52.32	6.97	-2,502.17	551.47	152.03	75.78	76.25	1.994			
8,550.00	7,861.21	8,196.37	7,724.17	52.91	52.18	10.36	-2,497.46	536.85	194.44	115.74	78.70	2.471			
8,600.00	7,869.78	8,175.83	7,710.50	52.85	52.05	12.38	-2,492.46	522.36	235.54	154.56	80.98	2.909			
8,650.00	7,874.27	8,154.87	7,696.05	52.78	51.90	13.74	-2,487.19	508.12	275.20	192.07	83.13	3.311			
8,679.79	7,875.00	8,142.21	7,687.09	52.74	51.82	14.38	-2,483.93	499.80	298.10	213.75	84.36	3.534			
8,700.00	7,875.00	8,133.73	7,680.99	52.70	51.76	14.57	-2,481.71	494.34	313.55	228.39	85.15	3.682			
8,800.00	7,875.00	8,100.00	7,655.99	52.56	51.53	15.20	-2,472.64	473.60	392.61	303.58	89.03	4.410			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
8,900.00	7,875.00	8,063.84	7,627.96	52.44	51.28	15.75	-2,462.49	453.15	475.21	384.22	91.00	5.222		
9,000.00	7,875.00	8,036.58	7,606.05	52.34	51.09	16.10	-2,454.59	438.99	560.66	467.74	92.92	6.034		
9,100.00	7,875.00	8,013.19	7,586.75	52.27	50.93	16.35	-2,447.64	427.74	648.33	553.93	94.41	6.867		
9,200.00	7,875.00	8,000.00	7,575.69	52.22	50.84	16.48	-2,443.66	421.77	737.85	641.90	95.95	7.690		
9,300.00	7,875.00	7,975.33	7,554.66	52.20	50.66	16.70	-2,436.10	411.33	828.64	732.15	96.49	8.588		
9,400.00	7,875.00	7,950.00	7,532.63	52.24	50.48	16.90	-2,428.21	401.63	920.82	823.98	96.83	9.509		
9,500.00	7,875.00	7,950.00	7,532.63	52.35	50.48	16.90	-2,428.21	401.63	1,013.70	915.75	97.96	10.348		
9,600.00	7,875.00	7,934.06	7,518.57	52.62	50.37	17.01	-2,423.17	396.06	1,107.49	1,009.18	98.31	11.265		
9,700.00	7,875.00	7,923.21	7,508.92	53.16	50.29	17.09	-2,419.72	392.50	1,201.98	1,103.27	98.71	12.177		
9,800.00	7,875.00	7,900.00	7,488.07	54.13	50.13	17.23	-2,412.27	385.55	1,297.27	1,198.56	98.71	13.143		
9,900.00	7,875.00	7,900.00	7,488.07	55.55	50.13	17.23	-2,412.27	385.55	1,392.62	1,293.40	99.22	14.036		
10,000.00	7,875.00	7,900.00	7,488.07	57.28	50.13	17.23	-2,412.27	385.55	1,488.58	1,388.95	99.62	14.942		
10,100.00	7,875.00	7,900.00	7,488.07	59.21	50.13	17.23	-2,412.27	385.55	1,585.03	1,485.08	99.95	15.858		
10,200.00	7,875.00	7,900.00	7,488.07	61.26	50.13	17.23	-2,412.27	385.55	1,681.91	1,581.68	100.22	16.782		
10,300.00	7,875.00	7,876.62	7,466.81	63.38	49.96	17.36	-2,404.68	379.46	1,778.50	1,678.43	100.06	17.774		
10,400.00	7,875.00	7,871.00	7,461.66	65.57	49.92	17.38	-2,402.85	378.14	1,875.68	1,775.49	100.19	18.722		
10,500.00	7,875.00	7,850.00	7,442.34	67.80	49.78	17.49	-2,395.97	373.66	1,973.36	1,873.31	100.06	19.723		
10,600.00	7,875.00	7,850.00	7,442.34	70.07	49.78	17.49	-2,395.97	373.66	2,070.81	1,970.58	100.23	20.660		
10,700.00	7,875.00	7,850.00	7,442.34	72.37	49.78	17.49	-2,395.97	373.66	2,168.49	2,068.11	100.38	21.603		
10,800.00	7,875.00	7,850.00	7,442.34	74.70	49.78	17.49	-2,395.97	373.66	2,266.38	2,165.87	100.51	22.548		
10,900.00	7,875.00	7,850.00	7,442.34	77.06	49.78	17.49	-2,395.97	373.66	2,364.44	2,263.81	100.63	23.497		
11,000.00	7,875.00	7,850.00	7,442.34	79.44	49.78	17.49	-2,395.97	373.66	2,462.66	2,361.93	100.73	24.449		
11,100.00	7,875.00	7,850.00	7,442.34	81.84	49.78	17.49	-2,395.97	373.66	2,561.01	2,460.20	100.82	25.403		
11,200.00	7,875.00	7,850.00	7,442.34	84.26	49.78	17.49	-2,395.97	373.66	2,659.49	2,558.59	100.90	26.358		
11,300.00	7,875.00	7,850.00	7,442.34	86.69	49.78	17.49	-2,395.97	373.66	2,758.08	2,657.11	100.97	27.316		
11,400.00	7,875.00	7,850.00	7,442.34	89.14	49.78	17.49	-2,395.97	373.66	2,856.76	2,755.73	101.03	28.275		
11,500.00	7,875.00	7,829.74	7,423.55	91.60	49.63	17.57	-2,389.29	370.05	2,955.11	2,854.23	100.88	29.293		
11,600.00	7,875.00	7,827.21	7,421.20	94.07	49.62	17.58	-2,388.45	369.65	3,053.85	2,952.94	100.91	30.262		
11,700.00	7,875.00	7,824.81	7,418.97	96.56	49.60	17.59	-2,387.66	369.28	3,152.66	3,051.72	100.95	31.231		
11,800.00	7,875.00	7,822.54	7,416.85	99.05	49.58	17.60	-2,386.90	368.94	3,251.53	3,150.56	100.98	32.201		
11,900.00	7,875.00	7,800.00	7,395.79	101.56	49.43	17.69	-2,379.42	366.04	3,350.89	3,250.08	100.80	33.242		
12,000.00	7,875.00	7,800.00	7,395.79	104.07	49.43	17.69	-2,379.42	366.04	3,449.79	3,348.93	100.85	34.206		
12,100.00	7,875.00	7,800.00	7,395.79	106.60	49.43	17.69	-2,379.42	366.04	3,548.75	3,447.85	100.90	35.171		
12,200.00	7,875.00	7,800.00	7,395.79	109.13	49.43	17.69	-2,379.42	366.04	3,647.77	3,546.82	100.94	36.137		
12,300.00	7,875.00	7,800.00	7,395.79	111.66	49.43	17.69	-2,379.42	366.04	3,746.84	3,645.85	100.99	37.103		
12,400.00	7,875.00	7,800.00	7,395.79	114.21	49.43	17.69	-2,379.42	366.04	3,845.96	3,744.93	101.03	38.069		
12,500.00	7,875.00	7,800.00	7,395.79	116.76	49.43	17.69	-2,379.42	366.04	3,945.12	3,844.05	101.06	39.036		
12,600.00	7,875.00	7,800.00	7,395.79	119.32	49.43	17.69	-2,379.42	366.04	4,044.32	3,943.22	101.10	40.003		
12,700.00	7,875.00	7,800.00	7,395.79	121.88	49.43	17.69	-2,379.42	366.04	4,143.56	4,042.43	101.14	40.970		
12,800.00	7,875.00	7,800.00	7,395.79	124.45	49.43	17.69	-2,379.42	366.04	4,242.84	4,141.67	101.17	41.938		
12,900.00	7,875.00	7,800.00	7,395.79	127.02	49.43	17.69	-2,379.42	366.04	4,342.15	4,240.95	101.20	42.905		
13,000.00	7,875.00	7,800.00	7,395.79	129.60	49.43	17.69	-2,379.42	366.04	4,441.49	4,340.26	101.24	43.872		
13,100.00	7,875.00	7,800.00	7,395.79	132.18	49.43	17.69	-2,379.42	366.04	4,540.87	4,439.60	101.27	44.839		
13,200.00	7,875.00	7,800.00	7,395.79	134.77	49.43	17.69	-2,379.42	366.04	4,640.26	4,538.96	101.30	45.806		
13,300.00	7,875.00	7,800.00	7,395.79	137.36	49.43	17.69	-2,379.42	366.04	4,739.69	4,638.35	101.33	46.773		
13,400.00	7,875.00	7,800.00	7,395.79	139.96	49.43	17.69	-2,379.42	366.04	4,839.13	4,737.77	101.36	47.740		
13,500.00	7,875.00	7,800.00	7,395.79	142.55	49.43	17.69	-2,379.42	366.04	4,938.60	4,837.21	101.40	48.706		
13,600.00	7,875.00	7,800.00	7,395.79	145.15	49.43	17.69	-2,379.42	366.04	5,038.09	4,936.67	101.43	49.673		
13,700.00	7,875.00	7,800.00	7,395.79	147.76	49.43	17.69	-2,379.42	366.04	5,137.60	5,036.15	101.46	50.638		
13,800.00	7,875.00	7,800.00	7,395.79	150.37	49.43	17.69	-2,379.42	366.04	5,237.13	5,135.64	101.49	51.604		
13,900.00	7,875.00	7,800.00	7,395.79	152.98	49.43	17.69	-2,379.42	366.04	5,336.68	5,235.16	101.52	52.569		
14,000.00	7,875.00	7,800.00	7,395.79	155.59	49.43	17.69	-2,379.42	366.04	5,436.24	5,334.69	101.55	53.533		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
14,100.00	7,875.00	7,800.00	7,395.79	158.20	49.43	17.69	-2,379.42	366.04	5,535.82	5,434.24	101.58	54.497		
14,200.00	7,875.00	7,800.00	7,395.79	160.82	49.43	17.69	-2,379.42	366.04	5,635.41	5,533.80	101.61	55.461		
14,300.00	7,875.00	7,800.00	7,395.79	163.44	49.43	17.69	-2,379.42	366.04	5,735.02	5,633.38	101.64	56.424		
14,400.00	7,875.00	7,800.00	7,395.79	166.06	49.43	17.69	-2,379.42	366.04	5,834.64	5,732.97	101.67	57.386		
14,500.00	7,875.00	7,800.00	7,395.79	168.69	49.43	17.69	-2,379.42	366.04	5,934.28	5,832.57	101.70	58.348		
14,600.00	7,875.00	7,800.00	7,395.79	171.32	49.43	17.69	-2,379.42	366.04	6,033.92	5,932.19	101.74	59.310		
14,700.00	7,875.00	7,800.00	7,395.79	173.94	49.43	17.69	-2,379.42	366.04	6,133.58	6,031.81	101.77	60.270		
14,800.00	7,875.00	7,800.00	7,395.79	176.57	49.43	17.69	-2,379.42	366.04	6,233.25	6,131.45	101.80	61.230		
14,900.00	7,875.00	7,784.51	7,381.26	179.21	49.32	17.75	-2,374.27	364.56	6,332.70	6,230.99	101.71	62.261		
15,000.00	7,875.00	7,783.84	7,380.63	181.84	49.31	17.75	-2,374.05	364.51	6,432.37	6,330.63	101.74	63.223		
15,100.00	7,875.00	7,783.19	7,380.02	184.48	49.31	17.75	-2,373.83	364.45	6,532.05	6,430.28	101.77	64.185		
15,200.00	7,875.00	7,782.56	7,379.42	187.11	49.31	17.75	-2,373.62	364.40	6,631.73	6,529.94	101.80	65.146		
15,300.00	7,875.00	7,781.94	7,378.85	189.75	49.30	17.75	-2,373.42	364.36	6,731.43	6,629.60	101.83	66.106		
15,400.00	7,875.00	7,766.97	7,364.76	192.39	49.20	17.80	-2,368.43	363.39	6,831.33	6,729.58	101.75	67.140		
15,500.00	7,875.00	7,766.97	7,364.76	195.03	49.20	17.80	-2,368.43	363.39	6,931.03	6,829.24	101.78	68.097		
15,600.00	7,875.00	7,766.97	7,364.76	197.67	49.20	17.80	-2,368.43	363.39	7,030.73	6,928.91	101.82	69.052		
15,700.00	7,875.00	7,766.97	7,364.76	200.32	49.20	17.80	-2,368.43	363.39	7,130.44	7,028.59	101.85	70.007		
15,800.00	7,875.00	7,766.97	7,364.76	202.96	49.20	17.80	-2,368.43	363.39	7,230.17	7,128.28	101.89	70.961		
15,900.00	7,875.00	7,766.97	7,364.76	205.61	49.20	17.80	-2,368.43	363.39	7,329.89	7,227.97	101.93	71.914		
16,000.00	7,875.00	7,766.97	7,364.76	208.26	49.20	17.80	-2,368.43	363.39	7,429.63	7,327.67	101.96	72.866		
16,100.00	7,875.00	7,766.97	7,364.76	210.91	49.20	17.80	-2,368.43	363.39	7,529.37	7,427.37	102.00	73.818		
16,200.00	7,875.00	7,766.97	7,364.76	213.56	49.20	17.80	-2,368.43	363.39	7,629.12	7,527.09	102.04	74.768		
16,300.00	7,875.00	7,766.97	7,364.76	216.21	49.20	17.80	-2,368.43	363.39	7,728.88	7,626.80	102.08	75.718		
16,400.00	7,875.00	7,766.97	7,364.76	218.86	49.20	17.80	-2,368.43	363.39	7,828.64	7,726.53	102.11	76.666		
16,500.00	7,875.00	7,766.97	7,364.76	221.51	49.20	17.80	-2,368.43	363.39	7,928.41	7,826.26	102.15	77.614		
16,600.00	7,875.00	7,766.97	7,364.76	224.16	49.20	17.80	-2,368.43	363.39	8,028.18	7,925.99	102.19	78.560		
16,700.00	7,875.00	7,766.97	7,364.76	226.82	49.20	17.80	-2,368.43	363.39	8,127.96	8,025.73	102.23	79.506		
16,800.00	7,875.00	7,766.97	7,364.76	229.47	49.20	17.80	-2,368.43	363.39	8,227.75	8,125.48	102.27	80.451		
16,900.00	7,875.00	7,766.97	7,364.76	232.13	49.20	17.80	-2,368.43	363.39	8,327.54	8,225.23	102.31	81.394		
17,000.00	7,875.00	7,766.97	7,364.76	234.79	49.20	17.80	-2,368.43	363.39	8,427.33	8,324.98	102.35	82.337		
17,100.00	7,875.00	7,766.97	7,364.76	237.44	49.20	17.80	-2,368.43	363.39	8,527.13	8,424.74	102.39	83.278		
17,200.00	7,875.00	7,766.97	7,364.76	240.10	49.20	17.80	-2,368.43	363.39	8,626.94	8,524.50	102.44	84.219		
17,300.00	7,875.00	7,766.97	7,364.76	242.76	49.20	17.80	-2,368.43	363.39	8,726.75	8,624.27	102.48	85.158		
17,400.00	7,875.00	7,766.97	7,364.76	245.42	49.20	17.80	-2,368.43	363.39	8,826.56	8,724.04	102.52	86.096		
17,500.00	7,875.00	7,766.97	7,364.76	248.08	49.20	17.80	-2,368.43	363.39	8,926.38	8,823.82	102.56	87.033		
17,600.00	7,875.00	7,766.97	7,364.76	250.74	49.20	17.80	-2,368.43	363.39	9,026.20	8,923.59	102.61	87.969		
17,700.00	7,875.00	7,766.97	7,364.76	253.41	49.20	17.80	-2,368.43	363.39	9,126.03	9,023.38	102.65	88.904		
17,800.00	7,875.00	7,766.97	7,364.76	256.07	49.20	17.80	-2,368.43	363.39	9,225.86	9,123.16	102.69	89.838		
17,900.00	7,875.00	7,766.97	7,364.76	258.73	49.20	17.80	-2,368.43	363.39	9,325.69	9,222.95	102.74	90.771		
18,000.00	7,875.00	7,766.97	7,364.76	261.39	49.20	17.80	-2,368.43	363.39	9,425.52	9,322.74	102.78	91.702		
18,100.00	7,875.00	7,766.97	7,364.76	264.06	49.20	17.80	-2,368.43	363.39	9,525.36	9,422.53	102.83	92.632		
18,200.00	7,875.00	7,766.97	7,364.76	266.72	49.20	17.80	-2,368.43	363.39	9,625.21	9,522.33	102.88	93.561		
18,300.00	7,875.00	7,766.97	7,364.76	269.39	49.20	17.80	-2,368.43	363.39	9,725.05	9,622.13	102.92	94.489		
18,400.00	7,875.00	7,766.97	7,364.76	272.05	49.20	17.80	-2,368.43	363.39	9,824.90	9,721.93	102.97	95.416		
18,500.00	7,875.00	7,766.97	7,364.76	274.72	49.20	17.80	-2,368.43	363.39	9,924.76	9,821.74	103.02	96.341		

# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	179.79	-75.04	0.28	75.04						
100.00	100.00	100.00	100.00	0.13	0.13	179.79	-75.04	0.28	75.04	74.77	0.27	279.109			
200.00	200.00	200.00	200.00	0.49	0.49	179.79	-75.04	0.28	75.04	74.05	0.99	76.121			
250.00	250.00	250.00	250.00	0.67	0.67	179.79	-75.04	0.28	75.04	73.70	1.34	55.822 CC			
300.00	300.00	298.73	298.73	0.84	0.84	19.84	-75.45	0.33	75.05	73.37	1.68	44.600			
400.00	399.93	396.20	396.13	1.19	1.17	20.40	-78.74	0.76	75.15	72.79	2.35	31.950			
500.00	499.68	493.65	493.36	1.54	1.52	21.52	-85.31	1.60	75.36	72.32	3.04	24.793			
600.00	599.13	591.09	590.29	1.92	1.88	23.19	-95.16	2.86	75.74	72.00	3.74	20.261			
700.00	698.15	688.51	686.80	2.32	2.27	25.38	-108.26	4.54	76.34	71.89	4.45	17.158 ES			
800.00	796.63	785.91	782.79	2.74	2.68	28.06	-124.61	6.64	77.25	72.07	5.18	14.917			
900.00	894.44	883.28	878.14	3.21	3.13	31.18	-144.18	9.15	78.56	72.62	5.94	13.232			
1,000.00	991.46	980.61	972.72	3.71	3.60	34.66	-166.95	12.07	80.38	73.64	6.74	11.924			
1,100.00	1,087.58	1,077.91	1,066.43	4.25	4.12	38.42	-192.87	15.39	82.80	75.20	7.61	10.888			
1,200.00	1,182.68	1,175.16	1,159.16	4.83	4.68	42.35	-221.93	19.12	85.94	77.38	8.56	10.038			
1,288.87	1,266.25	1,261.55	1,240.66	5.39	5.21	45.91	-250.35	22.76	89.38	79.88	9.50	9.409			
1,300.00	1,276.66	1,272.37	1,250.80	5.46	5.28	46.36	-254.07	23.24	89.88	80.25	9.62	9.340			
1,400.00	1,370.15	1,369.51	1,341.23	6.12	5.92	49.45	-289.26	27.75	96.02	85.27	10.75	8.929			
1,500.00	1,463.65	1,467.68	1,431.50	6.80	6.61	51.14	-327.55	32.66	104.74	92.82	11.92	8.788			
1,600.00	1,557.15	1,567.23	1,522.84	7.48	7.33	52.44	-366.81	37.70	113.90	100.76	13.14	8.669			
1,700.00	1,650.64	1,666.78	1,614.18	8.16	8.06	53.54	-406.07	42.73	123.10	108.72	14.38	8.560			
1,800.00	1,744.14	1,766.33	1,705.53	8.85	8.79	54.49	-445.32	47.77	132.35	116.71	15.64	8.462			
1,900.00	1,837.64	1,865.88	1,796.87	9.55	9.53	55.32	-484.58	52.80	141.62	124.71	16.91	8.373			
2,000.00	1,931.13	1,965.43	1,888.21	10.24	10.28	56.04	-523.84	57.84	150.93	132.73	18.20	8.293			
2,100.00	2,024.63	2,064.98	1,979.55	10.94	11.03	56.68	-563.10	62.87	160.25	140.76	19.50	8.220			
2,200.00	2,118.12	2,164.53	2,070.89	11.64	11.78	57.25	-602.36	67.91	169.59	148.79	20.80	8.154			
2,300.00	2,211.62	2,264.08	2,162.24	12.35	12.53	57.76	-641.62	72.94	178.95	156.84	22.11	8.095			
2,400.00	2,305.12	2,363.63	2,253.58	13.05	13.29	58.21	-680.88	77.98	188.32	164.90	23.42	8.041			
2,500.00	2,398.61	2,463.18	2,344.92	13.75	14.04	58.63	-720.14	83.01	197.69	172.96	24.74	7.991			
2,600.00	2,492.11	2,562.73	2,436.26	14.46	14.80	59.01	-759.40	88.05	207.08	181.02	26.06	7.946			
2,700.00	2,585.61	2,662.28	2,527.61	15.17	15.56	59.35	-798.66	93.08	216.48	189.09	27.39	7.905			
2,800.00	2,679.10	2,761.83	2,618.95	15.87	16.32	59.67	-837.92	98.11	225.88	197.17	28.71	7.867			
2,900.00	2,772.60	2,861.38	2,710.29	16.58	17.08	59.96	-877.18	103.15	235.29	205.25	30.05	7.831			
3,000.00	2,866.10	2,960.93	2,801.63	17.29	17.84	60.23	-916.44	108.18	244.71	213.33	31.38	7.799			
3,100.00	2,959.59	3,060.48	2,892.98	18.00	18.61	60.48	-955.70	113.22	254.13	221.42	32.71	7.768			
3,200.00	3,053.09	3,160.02	2,984.32	18.71	19.37	60.71	-994.96	118.25	263.56	229.51	34.05	7.740			
3,300.00	3,146.59	3,259.57	3,075.66	19.42	20.13	60.92	-1,034.22	123.29	272.99	237.60	35.39	7.714			
3,400.00	3,240.08	3,359.12	3,167.00	20.13	20.89	61.12	-1,073.48	128.32	282.42	245.69	36.73	7.690			
3,500.00	3,333.58	3,458.67	3,258.35	20.84	21.66	61.31	-1,112.74	133.36	291.85	253.79	38.07	7.667			
3,600.00	3,427.08	3,558.22	3,349.69	21.55	22.42	61.49	-1,152.00	138.39	301.29	261.88	39.41	7.645			
3,700.00	3,520.57	3,657.77	3,441.03	22.26	23.19	61.65	-1,191.25	143.43	310.73	269.98	40.75	7.625			
3,800.00	3,614.07	3,757.32	3,532.37	22.97	23.95	61.81	-1,230.51	148.46	320.18	278.08	42.09	7.606			
3,900.00	3,707.57	3,856.87	3,623.72	23.69	24.72	61.95	-1,269.77	153.50	329.62	286.18	43.44	7.588			
4,000.00	3,801.06	3,956.42	3,715.06	24.40	25.48	62.09	-1,309.03	158.53	339.07	294.29	44.78	7.571			
4,100.00	3,894.56	4,055.97	3,806.40	25.11	26.25	62.22	-1,348.29	163.57	348.52	302.39	46.13	7.555			
4,200.00	3,988.05	4,155.52	3,897.74	25.82	27.02	62.35	-1,387.55	168.60	357.97	310.50	47.48	7.540			
4,300.00	4,081.55	4,255.07	3,989.09	26.53	27.78	62.46	-1,426.81	173.64	367.43	318.60	48.82	7.526			
4,400.00	4,175.05	4,354.62	4,080.43	27.25	28.55	62.57	-1,466.07	178.67	376.88	326.71	50.17	7.512			
4,500.00	4,268.54	4,454.17	4,171.77	27.96	29.31	62.68	-1,505.33	183.70	386.34	334.82	51.52	7.499			
4,600.00	4,362.04	4,553.72	4,263.11	28.67	30.08	62.78	-1,544.59	188.74	395.79	342.93	52.86	7.487			
4,700.00	4,455.54	4,653.27	4,354.45	29.38	30.85	62.88	-1,583.85	193.77	405.25	351.04	54.21	7.475			
4,800.00	4,549.03	4,752.82	4,445.80	30.10	31.61	62.97	-1,623.11	198.81	414.71	359.15	55.56	7.464			
4,900.00	4,642.53	4,852.36	4,537.14	30.81	32.38	63.06	-1,662.37	203.84	424.17	367.26	56.91	7.453			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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 15-T4S-R65W - PROSPER FARMS 4-65 14-13 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			
5,000.00	4,736.03	4,951.91	4,628.48	31.52	33.15	63.14	-1,701.63	208.88	433.63	375.37	58.26	7.443			
5,100.00	4,829.52	5,051.46	4,719.82	32.24	33.92	63.22	-1,740.89	213.91	443.10	383.49	59.61	7.433			
5,200.00	4,923.02	5,151.01	4,811.17	32.95	34.68	63.30	-1,780.15	218.95	452.56	391.60	60.96	7.424			
5,300.00	5,016.52	5,250.56	4,902.51	33.66	35.45	63.37	-1,819.41	223.98	462.02	399.71	62.31	7.415			
5,400.00	5,110.01	5,350.11	4,993.85	34.38	36.22	63.44	-1,858.67	229.02	471.49	407.83	63.66	7.406			
5,500.00	5,203.51	5,449.66	5,085.19	35.09	36.98	63.51	-1,897.93	234.05	480.95	415.94	65.01	7.398			
5,600.00	5,297.01	5,549.21	5,176.54	35.80	37.75	63.58	-1,937.19	239.09	490.42	424.06	66.36	7.390			
5,700.00	5,390.50	5,648.76	5,267.88	36.52	38.52	63.64	-1,976.44	244.12	499.89	432.17	67.71	7.382			
5,800.00	5,484.00	5,748.31	5,359.22	37.23	39.29	63.70	-2,015.70	249.16	509.35	440.29	69.07	7.375			
5,900.00	5,577.50	5,847.86	5,450.56	37.94	40.06	63.76	-2,054.96	254.19	518.82	448.40	70.42	7.368			
6,000.00	5,670.99	5,947.41	5,541.91	38.66	40.82	63.82	-2,094.22	259.23	528.29	456.52	71.77	7.361			
6,100.00	5,764.49	6,046.96	5,633.25	39.37	41.59	63.87	-2,133.48	264.26	537.76	464.64	73.12	7.354			
6,200.00	5,857.98	6,146.51	5,724.59	40.08	42.36	63.92	-2,172.74	269.29	547.23	472.75	74.47	7.348			
6,300.00	5,951.48	6,246.06	5,815.93	40.80	43.13	63.98	-2,212.00	274.33	556.70	480.87	75.83	7.342			
6,400.00	6,044.98	6,345.61	5,907.28	41.51	43.89	64.02	-2,251.26	279.36	566.17	488.99	77.18	7.336			
6,500.00	6,138.47	6,445.16	5,998.62	42.22	44.66	64.07	-2,290.52	284.40	575.64	497.11	78.53	7.330			
6,600.00	6,231.97	6,544.71	6,089.96	42.94	45.43	64.12	-2,329.78	289.43	585.11	505.22	79.88	7.324			
6,700.00	6,325.47	6,644.25	6,181.30	43.65	46.20	64.16	-2,369.04	294.47	594.58	513.34	81.24	7.319			
6,800.00	6,418.96	6,743.80	6,272.65	44.37	46.97	64.20	-2,408.30	299.50	604.05	521.46	82.59	7.314			
6,900.00	6,512.46	6,843.35	6,363.99	45.08	47.73	64.25	-2,447.56	304.54	613.52	529.58	83.94	7.309			
7,000.00	6,605.96	6,942.90	6,455.33	45.79	48.50	64.29	-2,486.82	309.57	622.99	537.70	85.30	7.304			
7,100.00	6,699.45	7,042.45	6,546.67	46.51	49.27	64.33	-2,526.08	314.61	632.47	545.82	86.65	7.299			
7,200.00	6,792.95	7,142.00	6,638.01	47.22	50.04	64.36	-2,565.34	319.64	641.94	553.94	88.00	7.295			
7,300.00	6,886.45	7,241.55	6,729.36	47.94	50.81	64.40	-2,604.60	324.68	651.41	562.06	89.36	7.290			
7,400.00	6,979.94	7,341.10	6,820.70	48.65	51.58	64.44	-2,643.86	329.71	660.89	570.18	90.71	7.286			
7,500.00	7,073.44	7,440.65	6,912.04	49.36	52.34	64.47	-2,683.12	334.75	670.36	578.30	92.06	7.282			
7,600.00	7,166.94	7,540.20	7,003.38	50.08	53.11	64.51	-2,722.37	339.78	679.83	586.42	93.42	7.277			
7,700.00	7,260.43	7,639.75	7,094.73	50.79	53.88	64.54	-2,761.63	344.82	689.31	594.54	94.77	7.273			
7,710.39	7,270.15	7,650.09	7,104.22	50.87	53.96	64.54	-2,765.71	345.34	690.29	595.38	94.91	7.273			
7,750.00	7,307.31	7,689.59	7,140.46	51.14	54.27	64.55	-2,781.29	347.34	693.06	597.67	95.39	7.266			
7,800.00	7,354.38	7,739.43	7,186.19	51.46	54.65	64.55	-2,800.95	349.86	693.77	597.93	95.83	7.239			
7,850.00	7,401.31	7,788.90	7,231.58	51.75	55.03	64.55	-2,820.45	352.36	691.39	595.31	96.08	7.196			
7,900.00	7,447.74	7,837.62	7,276.28	52.00	55.41	64.55	-2,839.67	354.82	686.05	589.92	96.13	7.137			
7,950.00	7,493.32	7,885.22	7,319.96	52.22	55.78	64.55	-2,858.44	357.23	677.91	581.96	95.95	7.065			
8,000.00	7,537.69	7,931.34	7,362.28	52.41	56.13	64.55	-2,876.63	359.56	667.20	571.68	95.52	6.985			
8,050.00	7,580.52	7,975.63	7,402.92	52.57	56.47	64.55	-2,894.10	361.80	654.25	559.42	94.83	6.899			
8,100.00	7,621.49	8,017.75	7,441.56	52.70	56.80	64.55	-2,910.71	363.93	639.42	545.58	93.84	6.814			
8,150.00	7,660.28	8,104.06	7,520.32	52.81	57.47	64.55	-2,944.61	373.12	622.13	529.44	92.68	6.712			
8,200.00	7,696.59	8,176.57	7,584.87	52.89	58.05	64.55	-2,972.51	390.61	601.59	511.34	90.25	6.666			
8,250.00	7,730.16	8,221.17	7,623.36	52.95	58.40	64.55	-2,989.19	405.74	580.64	493.32	87.32	6.650 SF			
8,300.00	7,760.72	8,247.14	7,645.22	52.98	58.61	64.55	-2,998.69	416.03	561.23	476.94	84.29	6.658			
8,350.00	7,788.05	8,260.64	7,656.41	53.00	58.71	64.55	-3,003.56	421.81	544.64	463.35	81.29	6.700			
8,400.00	7,811.93	8,265.60	7,660.49	53.00	58.75	64.55	-3,005.33	424.00	531.70	453.29	78.40	6.782			
8,450.00	7,832.18	8,264.55	7,659.62	52.99	58.74	64.55	-3,004.96	423.54	522.92	447.12	75.80	6.899			
8,500.00	7,848.65	8,259.13	7,655.16	52.95	58.70	64.55	-3,003.01	421.15	518.57	444.90	73.67	7.039			
8,523.69	7,855.10	8,255.37	7,652.06	52.93	58.67	64.55	-3,001.66	419.52	518.07	445.17	72.90	7.107			
8,550.00	7,861.21	8,250.46	7,647.98	52.91	58.63	64.55	-2,999.89	417.43	518.68	446.44	72.24	7.180			
8,600.00	7,869.78	8,239.32	7,638.68	52.85	58.54	64.55	-2,995.85	412.82	523.07	451.41	71.66	7.300			
8,650.00	7,874.27	8,226.27	7,627.68	52.78	58.44	64.55	-2,991.07	407.68	531.39	459.44	71.94	7.386			
8,679.79	7,875.00	8,217.75	7,620.44	52.74	58.37	64.55	-2,987.93	404.46	538.03	465.53	72.50	7.421			
8,700.00	7,875.00	8,211.95	7,615.49	52.70	58.33	64.55	-2,985.78	402.35	543.24	470.22	73.02	7.439			
8,800.00	7,875.00	8,187.15	7,594.10	52.56	58.13	64.55	-2,976.51	393.91	577.86	500.92	76.94	7.511			

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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: 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		
8,900.00	7,875.00	8,167.42	7,576.85	52.44	57.98	-55.68	-2,969.03	387.92	625.55	543.60	81.95	7.634		
9,000.00	7,875.00	8,150.00	7,561.46	52.34	57.84	-53.91	-2,962.38	383.17	683.87	597.01	86.87	7.873		
9,100.00	7,875.00	8,138.10	7,550.88	52.27	57.74	-52.71	-2,957.81	380.22	750.52	659.25	91.27	8.223		
9,200.00	7,875.00	8,126.94	7,540.91	52.22	57.66	-51.58	-2,953.50	377.68	823.59	728.69	94.90	8.678		
9,300.00	7,875.00	8,117.43	7,532.37	52.20	57.58	-50.63	-2,949.81	375.67	901.60	803.74	97.86	9.213		
9,400.00	7,875.00	8,100.00	7,516.65	52.24	57.44	-48.90	-2,943.03	372.40	983.52	883.48	100.04	9.831		
9,500.00	7,875.00	8,100.00	7,516.65	52.35	57.44	-48.90	-2,943.03	372.40	1,068.19	966.07	102.12	10.460		
9,600.00	7,875.00	8,100.00	7,516.65	52.62	57.44	-48.90	-2,943.03	372.40	1,155.32	1,051.52	103.80	11.130		
9,700.00	7,875.00	8,100.00	7,516.65	53.16	57.44	-48.90	-2,943.03	372.40	1,244.38	1,139.22	105.16	11.833		
9,800.00	7,875.00	8,100.00	7,516.65	54.13	57.44	-48.90	-2,943.03	372.40	1,335.00	1,228.71	106.28	12.561		
9,900.00	7,875.00	8,080.98	7,499.41	55.55	57.29	-47.04	-2,935.59	369.43	1,426.44	1,319.52	106.92	13.342		
10,000.00	7,875.00	8,077.00	7,495.78	57.28	57.26	-46.65	-2,934.03	368.89	1,519.15	1,411.50	107.65	14.112		
10,100.00	7,875.00	8,073.40	7,492.50	59.21	57.23	-46.31	-2,932.62	368.42	1,612.70	1,504.43	108.27	14.895		
10,200.00	7,875.00	8,070.11	7,489.51	61.26	57.21	-45.99	-2,931.33	368.01	1,706.95	1,598.16	108.80	15.689		
10,300.00	7,875.00	8,050.00	7,471.13	63.38	57.05	-44.08	-2,923.42	365.93	1,802.13	1,693.12	109.01	16.531		
10,400.00	7,875.00	8,050.00	7,471.13	65.57	57.05	-44.08	-2,923.42	365.93	1,897.40	1,787.95	109.45	17.336		
10,500.00	7,875.00	8,050.00	7,471.13	67.80	57.05	-44.08	-2,923.42	365.93	1,993.13	1,883.30	109.83	18.147		
10,600.00	7,875.00	8,050.00	7,471.13	70.07	57.05	-44.08	-2,923.42	365.93	2,089.26	1,979.09	110.16	18.965		
10,700.00	7,875.00	8,050.00	7,471.13	72.37	57.05	-44.08	-2,923.42	365.93	2,185.73	2,075.27	110.46	19.788		
10,800.00	7,875.00	8,050.00	7,471.13	74.70	57.05	-44.08	-2,923.42	365.93	2,282.51	2,171.79	110.72	20.615		
10,900.00	7,875.00	8,050.00	7,471.13	77.06	57.05	-44.08	-2,923.42	365.93	2,379.56	2,268.60	110.96	21.446		
11,000.00	7,875.00	8,050.00	7,471.13	79.44	57.05	-44.08	-2,923.42	365.93	2,476.84	2,365.67	111.17	22.281		
11,100.00	7,875.00	8,050.00	7,471.13	81.84	57.05	-44.08	-2,923.42	365.93	2,574.33	2,462.97	111.36	23.118		
11,200.00	7,875.00	8,050.00	7,471.13	84.26	57.05	-44.08	-2,923.42	365.93	2,672.00	2,560.48	111.53	23.958		
11,300.00	7,875.00	8,050.00	7,471.13	86.69	57.05	-44.08	-2,923.42	365.93	2,769.85	2,658.16	111.69	24.800		
11,400.00	7,875.00	8,050.00	7,471.13	89.14	57.05	-44.08	-2,923.42	365.93	2,867.84	2,756.01	111.83	25.645		
11,500.00	7,875.00	8,050.00	7,471.13	91.60	57.05	-44.08	-2,923.42	365.93	2,965.96	2,854.00	111.96	26.491		
11,600.00	7,875.00	8,050.00	7,471.13	94.07	57.05	-44.08	-2,923.42	365.93	3,064.21	2,952.12	112.09	27.338		
11,700.00	7,875.00	8,050.00	7,471.13	96.56	57.05	-44.08	-2,923.42	365.93	3,162.56	3,050.36	112.20	28.187		
11,800.00	7,875.00	8,040.99	7,462.88	99.05	56.98	-43.24	-2,919.87	365.22	3,260.93	3,148.73	112.20	29.063		
11,900.00	7,875.00	8,039.96	7,461.94	101.56	56.97	-43.15	-2,919.46	365.15	3,359.46	3,247.17	112.29	29.918		
12,000.00	7,875.00	8,038.98	7,461.04	104.07	56.96	-43.06	-2,919.08	365.08	3,458.07	3,345.70	112.37	30.773		
12,100.00	7,875.00	8,029.56	7,452.40	106.60	56.89	-42.19	-2,915.37	364.53	3,556.83	3,444.48	112.35	31.658		
12,200.00	7,875.00	8,029.56	7,452.40	109.13	56.89	-42.19	-2,915.37	364.53	3,655.57	3,543.13	112.44	32.512		
12,300.00	7,875.00	8,029.56	7,452.40	111.66	56.89	-42.19	-2,915.37	364.53	3,754.38	3,641.86	112.52	33.368		
12,400.00	7,875.00	8,029.56	7,452.40	114.21	56.89	-42.19	-2,915.37	364.53	3,853.25	3,740.66	112.59	34.223		
12,500.00	7,875.00	8,029.56	7,452.40	116.76	56.89	-42.19	-2,915.37	364.53	3,952.17	3,839.51	112.66	35.080		
12,600.00	7,875.00	8,029.56	7,452.40	119.32	56.89	-42.19	-2,915.37	364.53	4,051.15	3,938.42	112.73	35.936		
12,700.00	7,875.00	8,029.56	7,452.40	121.88	56.89	-42.19	-2,915.37	364.53	4,150.18	4,037.38	112.80	36.794		
12,800.00	7,875.00	8,029.56	7,452.40	124.45	56.89	-42.19	-2,915.37	364.53	4,249.25	4,136.39	112.86	37.651		
12,900.00	7,875.00	8,029.56	7,452.40	127.02	56.89	-42.19	-2,915.37	364.53	4,348.37	4,235.45	112.92	38.508		
13,000.00	7,875.00	8,029.56	7,452.40	129.60	56.89	-42.19	-2,915.37	364.53	4,447.52	4,334.54	112.98	39.366		
13,100.00	7,875.00	8,029.56	7,452.40	132.18	56.89	-42.19	-2,915.37	364.53	4,546.72	4,433.68	113.04	40.224		
13,200.00	7,875.00	8,029.56	7,452.40	134.77	56.89	-42.19	-2,915.37	364.53	4,645.94	4,532.85	113.09	41.081		
13,300.00	7,875.00	8,030.09	7,452.89	137.36	56.89	-42.24	-2,915.57	364.56	4,745.20	4,632.05	113.15	41.937		
13,400.00	7,875.00	8,025.08	7,448.29	139.96	56.86	-41.78	-2,913.60	364.30	4,844.49	4,731.34	113.15	42.816		
13,500.00	7,875.00	8,020.07	7,443.69	142.55	56.82	-41.33	-2,911.62	364.05	4,943.80	4,830.66	113.14	43.695		
13,600.00	7,875.00	8,015.05	7,439.09	145.15	56.78	-40.88	-2,909.64	363.80	5,043.14	4,930.00	113.14	44.575		
13,700.00	7,875.00	8,010.04	7,434.49	147.76	56.74	-40.44	-2,907.67	363.54	5,142.49	5,029.36	113.13	45.456		
13,800.00	7,875.00	8,005.03	7,429.89	150.37	56.70	-39.99	-2,905.69	363.29	5,241.86	5,128.74	113.12	46.337		
13,900.00	7,875.00	8,000.02	7,425.29	152.98	56.66	-39.56	-2,903.71	363.04	5,341.26	5,228.14	113.12	47.219		
14,000.00	7,875.00	7,995.00	7,420.69	155.59	56.62	-39.12	-2,901.74	362.78	5,440.67	5,327.56	113.11	48.102		

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 LONE TREE 4-65 15-16 4AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5718.30usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5718.30usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<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

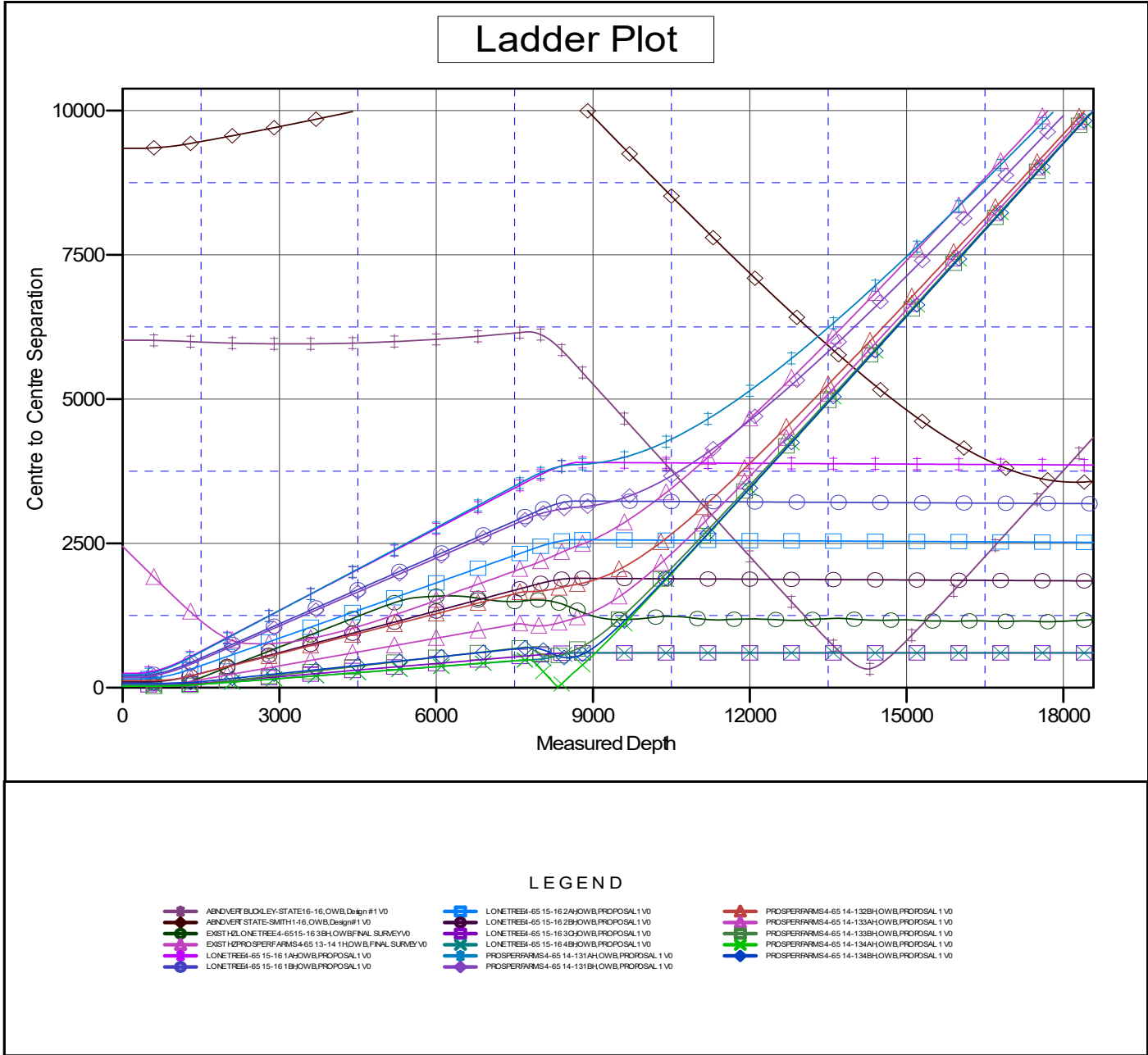
Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,875.00	7,989.99	7,416.09	158.20	56.58	-38.69	-2,899.76	362.53	5,540.10	5,427.00	113.10	48.985		
14,200.00	7,875.00	7,984.98	7,411.50	160.82	56.55	-38.26	-2,897.78	362.28	5,639.54	5,526.45	113.09	49.868		
14,300.00	7,875.00	7,979.97	7,406.90	163.44	56.51	-37.83	-2,895.81	362.02	5,739.00	5,625.92	113.08	50.752		
14,400.00	7,875.00	7,974.95	7,402.30	166.06	56.47	-37.41	-2,893.83	361.77	5,838.47	5,725.40	113.07	51.636		
14,500.00	7,875.00	7,969.94	7,397.70	168.69	56.43	-36.99	-2,891.85	361.52	5,937.95	5,824.90	113.06	52.521		
14,600.00	7,875.00	7,964.93	7,393.10	171.32	56.39	-36.58	-2,889.88	361.26	6,037.45	5,924.41	113.05	53.407		
14,700.00	7,875.00	7,959.92	7,388.50	173.94	56.35	-36.17	-2,887.90	361.01	6,136.96	6,023.93	113.04	54.292		
14,800.00	7,875.00	7,954.90	7,383.90	176.57	56.31	-35.76	-2,885.92	360.75	6,236.49	6,123.46	113.02	55.178		
14,900.00	7,875.00	7,949.89	7,379.30	179.21	56.28	-35.35	-2,883.95	360.50	6,336.02	6,223.01	113.01	56.065		
15,000.00	7,875.00	7,944.88	7,374.70	181.84	56.24	-34.95	-2,881.97	360.25	6,435.56	6,322.56	113.00	56.951		
15,100.00	7,875.00	7,939.87	7,370.10	184.48	56.20	-34.55	-2,879.99	359.99	6,535.12	6,422.13	112.99	57.838		
15,200.00	7,875.00	7,934.85	7,365.50	187.11	56.16	-34.16	-2,878.02	359.74	6,634.68	6,521.70	112.98	58.726		
15,300.00	7,875.00	7,929.84	7,360.90	189.75	56.12	-33.77	-2,876.04	359.49	6,734.25	6,621.29	112.97	59.613		
15,400.00	7,875.00	7,924.83	7,356.31	192.39	56.08	-33.38	-2,874.06	359.23	6,833.84	6,720.88	112.95	60.501		
15,500.00	7,875.00	7,919.82	7,351.71	195.03	56.04	-33.00	-2,872.09	358.98	6,933.43	6,820.48	112.94	61.389		
15,600.00	7,875.00	7,914.81	7,347.11	197.67	56.00	-32.62	-2,870.11	358.73	7,033.03	6,920.09	112.93	62.277		
15,700.00	7,875.00	7,909.79	7,342.51	200.32	55.97	-32.24	-2,868.13	358.47	7,132.63	7,019.71	112.92	63.166		
15,800.00	7,875.00	7,904.78	7,337.91	202.96	55.93	-31.87	-2,866.16	358.22	7,232.24	7,119.34	112.91	64.055		
15,900.00	7,875.00	7,900.23	7,333.31	205.61	55.89	-31.50	-2,864.18	357.97	7,331.86	7,218.97	112.90	64.941		
16,000.00	7,875.00	7,905.25	7,328.71	208.26	55.93	-31.13	-2,862.20	357.71	7,431.49	7,318.53	112.97	65.786		
16,100.00	7,875.00	7,889.74	7,324.11	210.91	55.81	-30.77	-2,860.22	357.46	7,531.13	7,418.25	112.87	66.722		
16,200.00	7,875.00	7,884.73	7,319.51	213.56	55.77	-30.40	-2,858.25	357.21	7,630.77	7,517.90	112.86	67.611		
16,300.00	7,875.00	7,879.72	7,314.91	216.21	55.73	-30.05	-2,856.27	356.95	7,730.41	7,617.56	112.85	68.500		
16,400.00	7,875.00	7,874.71	7,310.31	218.86	55.69	-29.69	-2,854.29	356.70	7,830.06	7,717.22	112.84	69.390		
16,500.00	7,875.00	7,869.69	7,305.71	221.51	55.66	-29.34	-2,852.32	356.45	7,929.72	7,816.89	112.83	70.279		
16,600.00	7,875.00	7,864.68	7,301.11	224.16	55.62	-29.00	-2,850.34	356.19	8,029.38	7,916.56	112.82	71.169		
16,700.00	7,875.00	7,859.67	7,296.52	226.82	55.58	-28.65	-2,848.36	355.94	8,129.05	8,016.24	112.81	72.058		
16,800.00	7,875.00	7,854.66	7,291.92	229.47	55.54	-28.31	-2,846.39	355.68	8,228.73	8,115.92	112.80	72.948		
16,900.00	7,875.00	7,849.64	7,287.32	232.13	55.50	-27.97	-2,844.41	355.43	8,328.40	8,215.61	112.79	73.838		
17,000.00	7,875.00	7,844.63	7,282.72	234.79	55.46	-27.64	-2,842.43	355.18	8,428.09	8,315.30	112.78	74.728		
17,100.00	7,875.00	7,839.62	7,278.12	237.44	55.42	-27.31	-2,840.46	354.92	8,527.77	8,415.00	112.78	75.617		
17,200.00	7,875.00	7,834.61	7,273.52	240.10	55.39	-26.98	-2,838.48	354.67	8,627.46	8,514.70	112.77	76.507		
17,300.00	7,875.00	7,829.59	7,268.92	242.76	55.35	-26.65	-2,836.50	354.42	8,727.16	8,614.40	112.76	77.397		
17,400.00	7,875.00	7,824.58	7,264.32	245.42	55.31	-26.33	-2,834.53	354.16	8,826.86	8,714.11	112.75	78.286		
17,500.00	7,875.00	7,819.57	7,259.72	248.08	55.27	-26.01	-2,832.55	353.91	8,926.56	8,813.82	112.74	79.176		
17,600.00	7,875.00	7,814.56	7,255.12	250.74	55.23	-25.70	-2,830.57	353.66	9,026.27	8,913.53	112.74	80.065		
17,700.00	7,875.00	7,809.54	7,250.52	253.41	55.19	-25.38	-2,828.60	353.40	9,125.98	9,013.25	112.73	80.954		
17,800.00	7,875.00	7,804.53	7,245.92	256.07	55.15	-25.07	-2,826.62	353.15	9,225.70	9,112.97	112.72	81.843		
17,900.00	7,875.00	7,800.48	7,241.32	258.73	55.12	-24.77	-2,824.64	352.90	9,325.41	9,212.69	112.72	82.727		
18,000.00	7,875.00	7,805.49	7,236.73	261.39	55.16	-24.46	-2,822.67	352.64	9,425.14	9,312.34	112.80	83.559		
18,100.00	7,875.00	7,789.49	7,232.13	264.06	55.04	-24.16	-2,820.69	352.39	9,524.86	9,412.15	112.71	84.510		
18,200.00	7,875.00	7,784.48	7,227.53	266.72	55.00	-23.86	-2,818.71	352.14	9,624.59	9,511.89	112.70	85.399		
18,300.00	7,875.00	7,779.47	7,222.93	269.39	54.96	-23.57	-2,816.74	351.88	9,724.32	9,611.62	112.70	86.287		
18,400.00	7,875.00	7,774.46	7,218.33	272.05	54.92	-23.28	-2,814.76	351.63	9,824.05	9,711.36	112.69	87.176		
18,500.00	7,875.00	7,769.44	7,213.73	274.72	54.88	-22.99	-2,812.78	351.38	9,923.79	9,811.10	112.69	88.064		
18,575.92	7,875.00	7,765.64	7,210.24	276.74	54.85	-22.77	-2,811.28	351.18	9,999.51	9,886.82	112.69	88.738		

# Anticollision Report

<b>Company:</b> CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b> Well LONE TREE 4-65 15-16 4AH
<b>Project:</b> ARAPAHOE COUNTY	<b>TVD Reference:</b> KB 25' @ 5718.30usft
<b>Reference Site:</b> SEC 15-T4S-R65W	<b>MD Reference:</b> KB 25' @ 5718.30usft
<b>Site Error:</b> 0.00 usft	<b>North Reference:</b> True
<b>Reference Well:</b> LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b> Minimum Curvature
<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 25' @ 5718.30usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 105.500000°W

Coordinates are relative to: LONE TREE 4-65 15-16 4AH  
 Coordinate System is US State Plane 1983, Colorado Central Zone  
 Grid Convergence at Surface is: 0.54°



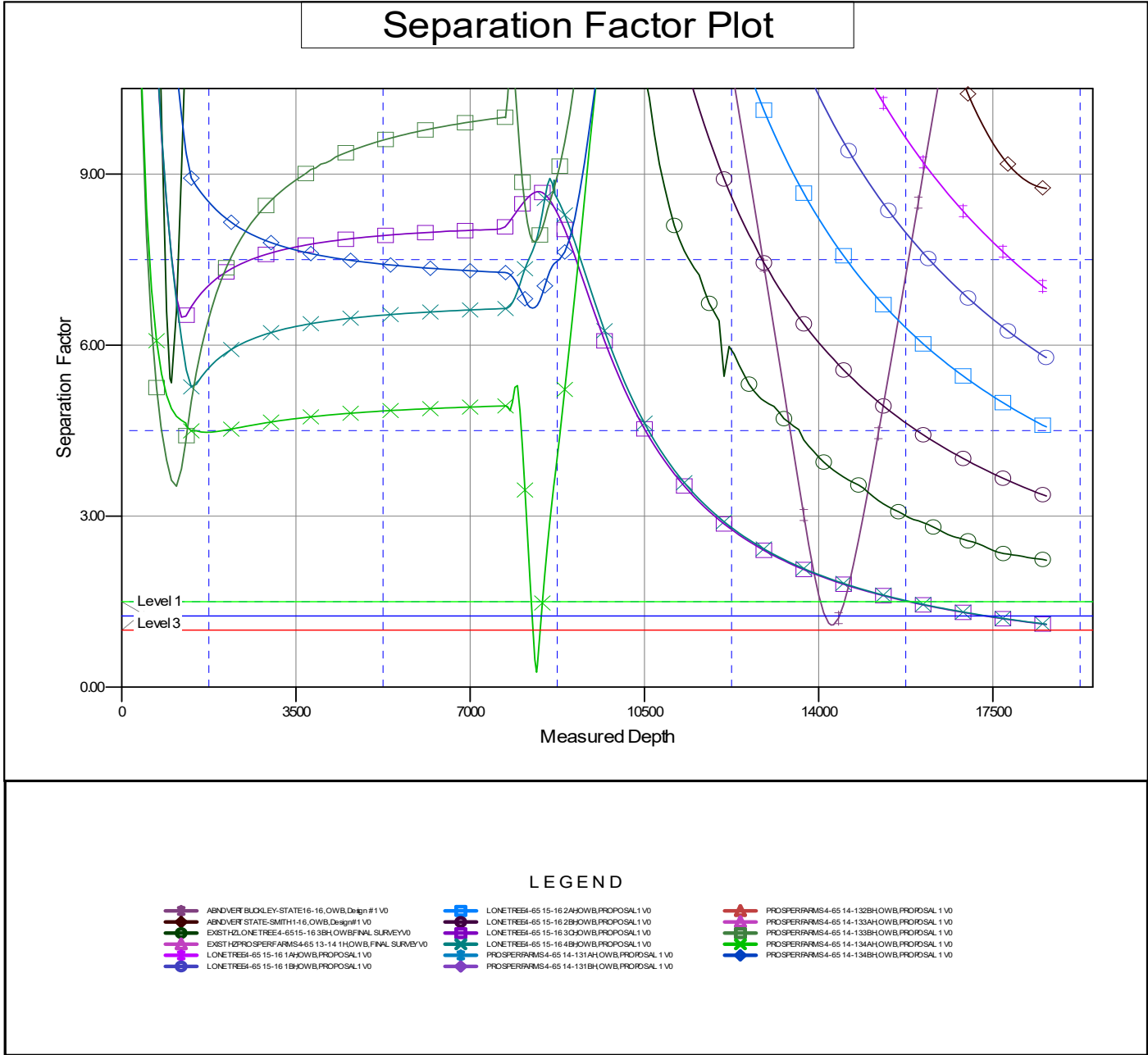
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b> CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b> Well LONE TREE 4-65 15-16 4AH
<b>Project:</b> ARAPAHOE COUNTY	<b>TVD Reference:</b> KB 25' @ 5718.30usft
<b>Reference Site:</b> SEC 15-T4S-R65W	<b>MD Reference:</b> KB 25' @ 5718.30usft
<b>Site Error:</b> 0.00 usft	<b>North Reference:</b> True
<b>Reference Well:</b> LONE TREE 4-65 15-16 4AH	<b>Survey Calculation Method:</b> Minimum Curvature
<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

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