



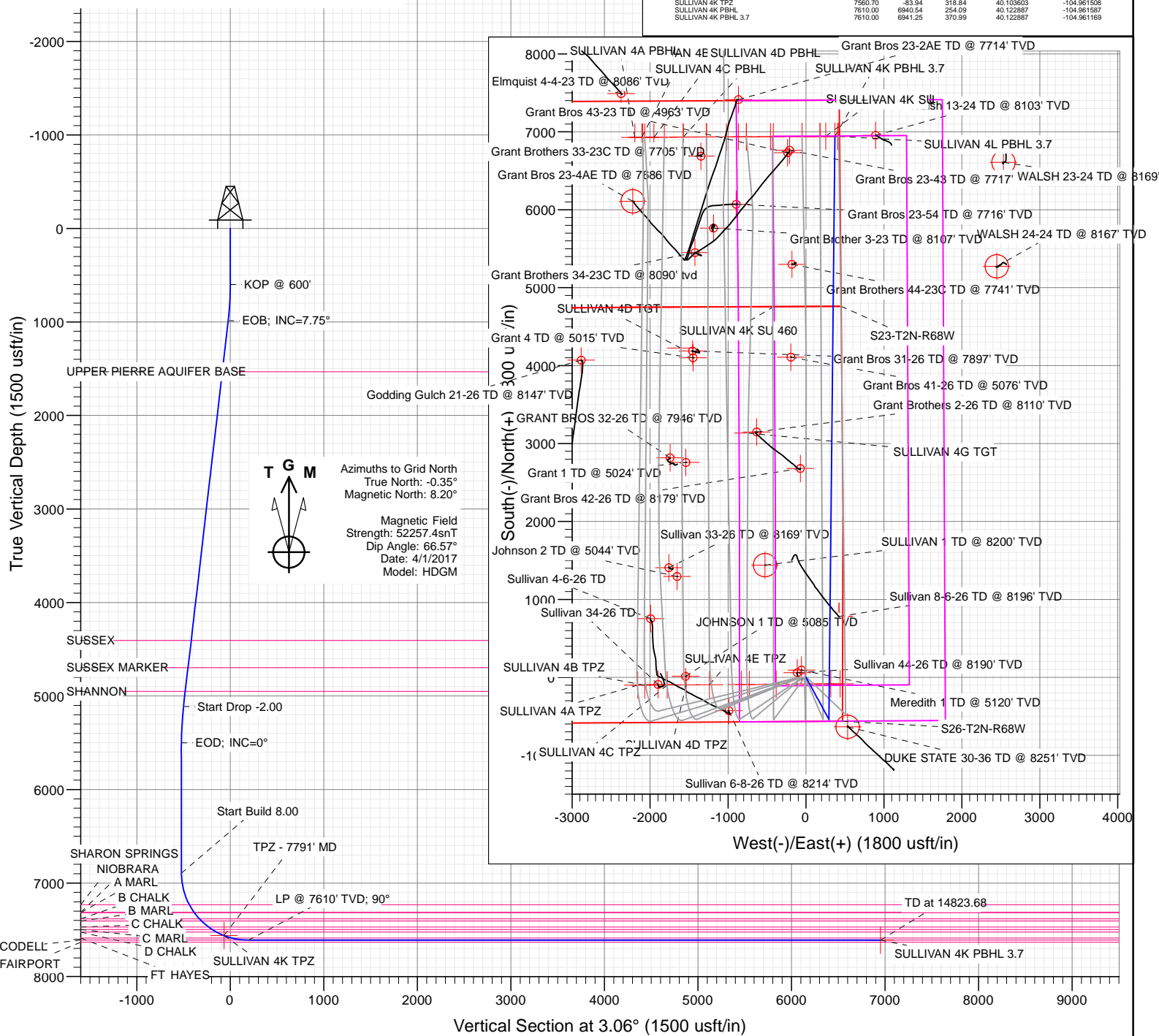
Project: DJ BASIN
Site: S26-T2N-R68W
Well: SULLIVAN 4K-26H-P268
Wellbore: OH
Design: PLAN #2

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	987.60	7.75	151.35	986.42	-22.98	12.55	2.00	151.35	-22.27	
4	5152.83	7.75	151.35	5113.58	-516.02	281.92	0.00	0.00	-500.24	
5	5540.43	0.00	0.00	5500.00	-539.00	294.47	2.00	180.00	-522.52	
6	6934.23	0.00	0.00	6893.80	-539.00	294.47	0.00	0.00	-522.52	
7	8059.23	90.00	0.59	7610.00	177.16	301.80	8.00	0.59	193.01	
8	14823.68	90.00	0.59	7610.00	6941.25	370.99	0.00	0.00	6951.16	SULLIVAN 4K PBHL 3.7

PLAN #2
SULLIVAN 4K-26H-P268
16XXX: LR
23' KB @ 4987.00usft
Ground Level @ 4964.00
North American Datum 1983
Well SULLIVAN 4K-26H-P268, Grid North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	3.06	Sit	0.00	0.00	0.00
Name		TVD	+N-S	+E-W	Latitude	Longitude
SULLIVAN 4K TPZ		7660.70	83.94	318.84	40.103603	-104.961508
SULLIVAN 4K PBHL		6940.09	60.54	254.009	40.128887	-104.961587
SULLIVAN 4K PBHL 3.7		7610.00	6941.25	370.99	40.122887	-104.961169



CATHEDRAL

WELL DETAILS: SULLIVAN 4K-26H-P268

		Ground Level:		4964.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1281128.21	3150311.51	40.103839	-104.962646



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 4987.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 4987.00usft
Site:	S26-T2N-R68W	North Reference:	Grid
Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Project	DJ BASIN		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		S26-T2N-R68W			
Site Position:		Northing:	1,281,128.07 usft	Latitude:	40.103840
From:	Lat/Long	Easting:	3,150,211.37 usft	Longitude:	-104.963004
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.35 °

Well	SULLIVAN 4K-26H-P268					
Well Position	+N/-S	0.00 usft	Northing:	1,281,128.21 usft	Latitude:	40.103839
	+E/-W	0.00 usft	Easting:	3,150,311.51 usft	Longitude:	-104.962646
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,964.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/1/2017	8.55	66.57	52,257

Design	PLAN #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	3.06

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
987.60	7.75	151.35	986.42	-22.98	12.55	2.00	2.00	0.00	151.35	
5,152.83	7.75	151.35	5,113.58	-516.02	281.92	0.00	0.00	0.00	0.00	
5,540.43	0.00	0.00	5,500.00	-539.00	294.47	2.00	-2.00	0.00	180.00	
6,934.23	0.00	0.00	6,893.80	-539.00	294.47	0.00	0.00	0.00	0.00	
8,059.23	90.00	0.59	7,610.00	177.16	301.80	8.00	8.00	0.00	0.59	
14,823.68	90.00	0.59	7,610.00	6,941.25	370.99	0.00	0.00	0.00	0.00	SULLIVAN 4K PBHL :

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 4987.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 4987.00usft
Site:	S26-T2N-R68W	North Reference:	Grid
Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	KOP @ 600'
700.00	2.00	151.35	699.98	-1.53	0.84	-1.48	2.00	2.00	
800.00	4.00	151.35	799.84	-6.12	3.35	-5.94	2.00	2.00	
900.00	6.00	151.35	899.45	-13.77	7.52	-13.35	2.00	2.00	
987.60	7.75	151.35	986.42	-22.98	12.55	-22.27	2.00	2.00	EOB; INC=7.75°
1,000.00	7.75	151.35	998.71	-24.44	13.35	-23.70	0.00	0.00	
1,100.00	7.75	151.35	1,097.79	-36.28	19.82	-35.17	0.00	0.00	
1,200.00	7.75	151.35	1,196.88	-48.12	26.29	-46.65	0.00	0.00	
1,300.00	7.75	151.35	1,295.96	-59.96	32.76	-58.12	0.00	0.00	
1,400.00	7.75	151.35	1,395.05	-71.79	39.22	-69.60	0.00	0.00	
1,500.00	7.75	151.35	1,494.14	-83.63	45.69	-81.07	0.00	0.00	
1,539.22	7.75	151.35	1,533.00	-88.27	48.23	-85.57	0.00	0.00	UPPER PIERRE AQUIFER BASE
1,600.00	7.75	151.35	1,593.22	-95.47	52.16	-92.55	0.00	0.00	
1,700.00	7.75	151.35	1,692.31	-107.30	58.62	-104.02	0.00	0.00	
1,800.00	7.75	151.35	1,791.39	-119.14	65.09	-115.50	0.00	0.00	
1,900.00	7.75	151.35	1,890.48	-130.98	71.56	-126.97	0.00	0.00	
2,000.00	7.75	151.35	1,989.57	-142.82	78.02	-138.45	0.00	0.00	
2,100.00	7.75	151.35	2,088.65	-154.65	84.49	-149.92	0.00	0.00	
2,200.00	7.75	151.35	2,187.74	-166.49	90.96	-161.40	0.00	0.00	
2,300.00	7.75	151.35	2,286.82	-178.33	97.43	-172.87	0.00	0.00	
2,400.00	7.75	151.35	2,385.91	-190.16	103.89	-184.35	0.00	0.00	
2,500.00	7.75	151.35	2,485.00	-202.00	110.36	-195.82	0.00	0.00	
2,600.00	7.75	151.35	2,584.08	-213.84	116.83	-207.30	0.00	0.00	
2,700.00	7.75	151.35	2,683.17	-225.68	123.29	-218.77	0.00	0.00	
2,800.00	7.75	151.35	2,782.26	-237.51	129.76	-230.25	0.00	0.00	
2,900.00	7.75	151.35	2,881.34	-249.35	136.23	-241.73	0.00	0.00	
3,000.00	7.75	151.35	2,980.43	-261.19	142.69	-253.20	0.00	0.00	
3,100.00	7.75	151.35	3,079.51	-273.03	149.16	-264.68	0.00	0.00	
3,200.00	7.75	151.35	3,178.60	-284.86	155.63	-276.15	0.00	0.00	
3,300.00	7.75	151.35	3,277.69	-296.70	162.10	-287.63	0.00	0.00	
3,400.00	7.75	151.35	3,376.77	-308.54	168.56	-299.10	0.00	0.00	
3,500.00	7.75	151.35	3,475.86	-320.37	175.03	-310.58	0.00	0.00	
3,600.00	7.75	151.35	3,574.94	-332.21	181.50	-322.05	0.00	0.00	
3,700.00	7.75	151.35	3,674.03	-344.05	187.96	-333.53	0.00	0.00	
3,800.00	7.75	151.35	3,773.12	-355.89	194.43	-345.00	0.00	0.00	
3,900.00	7.75	151.35	3,872.20	-367.72	200.90	-356.48	0.00	0.00	
4,000.00	7.75	151.35	3,971.29	-379.56	207.36	-367.95	0.00	0.00	
4,100.00	7.75	151.35	4,070.37	-391.40	213.83	-379.43	0.00	0.00	
4,200.00	7.75	151.35	4,169.46	-403.24	220.30	-390.90	0.00	0.00	
4,300.00	7.75	151.35	4,268.55	-415.07	226.77	-402.38	0.00	0.00	
4,400.00	7.75	151.35	4,367.63	-426.91	233.23	-413.85	0.00	0.00	
4,438.72	7.75	151.35	4,406.00	-431.49	235.74	-418.30	0.00	0.00	SUSSEX
4,500.00	7.75	151.35	4,466.72	-438.75	239.70	-425.33	0.00	0.00	
4,600.00	7.75	151.35	4,565.81	-450.58	246.17	-436.80	0.00	0.00	
4,700.00	7.75	151.35	4,664.89	-462.42	252.63	-448.28	0.00	0.00	
4,731.40	7.75	151.35	4,696.00	-466.14	254.66	-451.88	0.00	0.00	SUSSEX MARKER

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 4987.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 4987.00usft
Site:	S26-T2N-R68W	North Reference:	Grid
Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
4,800.00	7.75	151.35	4,763.98	-474.26	259.10	-459.76	0.00	0.00	
4,900.00	7.75	151.35	4,863.06	-486.10	265.57	-471.23	0.00	0.00	
4,987.74	7.75	151.35	4,950.00	-496.48	271.24	-481.30	0.00	0.00	SHANNON
5,000.00	7.75	151.35	4,962.15	-497.93	272.03	-482.71	0.00	0.00	
5,100.00	7.75	151.35	5,061.24	-509.77	278.50	-494.18	0.00	0.00	
5,152.83	7.75	151.35	5,113.58	-516.02	281.92	-500.24	0.00	0.00	Start Drop -2.00
5,200.00	6.81	151.35	5,160.37	-521.27	284.78	-505.33	2.00	-2.00	
5,300.00	4.81	151.35	5,259.85	-530.15	289.64	-513.94	2.00	-2.00	
5,400.00	2.81	151.35	5,359.63	-535.98	292.82	-519.59	2.00	-2.00	
5,500.00	0.81	151.35	5,459.57	-538.75	294.33	-522.27	2.00	-2.00	
5,540.43	0.00	0.00	5,500.00	-539.00	294.47	-522.52	2.00	-2.00	EOD; INC=0°
5,600.00	0.00	0.00	5,559.57	-539.00	294.47	-522.52	0.00	0.00	
5,700.00	0.00	0.00	5,659.57	-539.00	294.47	-522.52	0.00	0.00	
5,800.00	0.00	0.00	5,759.57	-539.00	294.47	-522.52	0.00	0.00	
5,900.00	0.00	0.00	5,859.57	-539.00	294.47	-522.52	0.00	0.00	
6,000.00	0.00	0.00	5,959.57	-539.00	294.47	-522.52	0.00	0.00	
6,100.00	0.00	0.00	6,059.57	-539.00	294.47	-522.52	0.00	0.00	
6,200.00	0.00	0.00	6,159.57	-539.00	294.47	-522.52	0.00	0.00	
6,300.00	0.00	0.00	6,259.57	-539.00	294.47	-522.52	0.00	0.00	
6,400.00	0.00	0.00	6,359.57	-539.00	294.47	-522.52	0.00	0.00	
6,500.00	0.00	0.00	6,459.57	-539.00	294.47	-522.52	0.00	0.00	
6,600.00	0.00	0.00	6,559.57	-539.00	294.47	-522.52	0.00	0.00	
6,700.00	0.00	0.00	6,659.57	-539.00	294.47	-522.52	0.00	0.00	
6,800.00	0.00	0.00	6,759.57	-539.00	294.47	-522.52	0.00	0.00	
6,900.00	0.00	0.00	6,859.57	-539.00	294.47	-522.52	0.00	0.00	
6,934.23	0.00	0.00	6,893.80	-539.00	294.47	-522.52	0.00	0.00	Start Build 8.00
7,000.00	5.26	0.59	6,959.48	-535.98	294.50	-519.50	8.00	8.00	
7,100.00	13.26	0.59	7,058.10	-519.90	294.67	-503.43	8.00	8.00	
7,200.00	21.26	0.59	7,153.51	-490.25	294.97	-473.81	8.00	8.00	
7,285.32	28.09	0.59	7,231.00	-454.66	295.33	-438.25	8.00	8.00	SHARON SPRINGS
7,300.00	29.26	0.59	7,243.88	-447.62	295.40	-431.21	8.00	8.00	
7,382.04	35.82	0.59	7,313.00	-403.51	295.86	-387.14	8.00	8.00	NIOBRARA
7,386.99	36.22	0.59	7,317.00	-400.60	295.89	-384.24	8.00	8.00	A MARL
7,400.00	37.26	0.59	7,327.43	-392.82	295.97	-376.46	8.00	8.00	
7,472.76	43.08	0.59	7,383.00	-345.90	296.45	-329.59	8.00	8.00	B CHALK
7,500.00	45.26	0.59	7,402.54	-326.93	296.64	-310.63	8.00	8.00	
7,504.94	45.66	0.59	7,406.00	-323.41	296.68	-307.11	8.00	8.00	B MARL
7,600.00	53.26	0.59	7,467.74	-251.22	297.41	-234.99	8.00	8.00	
7,603.78	53.56	0.59	7,470.00	-248.18	297.44	-231.95	8.00	8.00	C CHALK
7,651.43	57.38	0.59	7,497.00	-208.94	297.85	-192.75	8.00	8.00	C MARL
7,700.00	61.26	0.59	7,521.78	-167.18	298.27	-151.02	8.00	8.00	
7,702.54	61.46	0.59	7,523.00	-164.95	298.30	-148.79	8.00	8.00	D CHALK
7,791.96	68.62	0.59	7,560.71	-83.94	299.12	-67.85	8.00	8.00	TPZ - 7791' MD
7,800.00	69.26	0.59	7,563.59	-76.43	299.20	-60.36	8.00	8.00	
7,881.26	75.76	0.59	7,588.00	1.02	299.99	17.03	8.00	8.00	FT HAYES
7,900.00	77.26	0.59	7,592.37	19.25	300.18	35.24	8.00	8.00	
8,000.00	85.26	0.59	7,607.55	118.00	301.19	133.91	8.00	8.00	
8,059.23	90.00	0.59	7,610.00	177.16	301.80	193.01	8.00	8.00	LP @ 7610' TVD; 90°
8,100.00	90.00	0.59	7,610.00	217.93	302.21	233.74	0.00	0.00	
8,200.00	90.00	0.59	7,610.00	317.92	303.24	333.65	0.00	0.00	
8,300.00	90.00	0.59	7,610.00	417.92	304.26	433.56	0.00	0.00	
8,400.00	90.00	0.59	7,610.00	517.91	305.28	533.47	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 4987.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 4987.00usft
Site:	S26-T2N-R68W	North Reference:	Grid
Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
8,500.00	90.00	0.59	7,610.00	617.91	306.30	633.37	0.00	0.00	
8,600.00	90.00	0.59	7,610.00	717.90	307.33	733.28	0.00	0.00	
8,700.00	90.00	0.59	7,610.00	817.89	308.35	833.19	0.00	0.00	
8,800.00	90.00	0.59	7,610.00	917.89	309.37	933.09	0.00	0.00	
8,900.00	90.00	0.59	7,610.00	1,017.88	310.40	1,033.00	0.00	0.00	
9,000.00	90.00	0.59	7,610.00	1,117.88	311.42	1,132.91	0.00	0.00	
9,100.00	90.00	0.59	7,610.00	1,217.87	312.44	1,232.81	0.00	0.00	
9,200.00	90.00	0.59	7,610.00	1,317.87	313.46	1,332.72	0.00	0.00	
9,300.00	90.00	0.59	7,610.00	1,417.86	314.49	1,432.63	0.00	0.00	
9,400.00	90.00	0.59	7,610.00	1,517.86	315.51	1,532.53	0.00	0.00	
9,500.00	90.00	0.59	7,610.00	1,617.85	316.53	1,632.44	0.00	0.00	
9,600.00	90.00	0.59	7,610.00	1,717.85	317.56	1,732.35	0.00	0.00	
9,700.00	90.00	0.59	7,610.00	1,817.84	318.58	1,832.25	0.00	0.00	
9,800.00	90.00	0.59	7,610.00	1,917.84	319.60	1,932.16	0.00	0.00	
9,900.00	90.00	0.59	7,610.00	2,017.83	320.62	2,032.07	0.00	0.00	
10,000.00	90.00	0.59	7,610.00	2,117.83	321.65	2,131.97	0.00	0.00	
10,100.00	90.00	0.59	7,610.00	2,217.82	322.67	2,231.88	0.00	0.00	
10,200.00	90.00	0.59	7,610.00	2,317.82	323.69	2,331.79	0.00	0.00	
10,300.00	90.00	0.59	7,610.00	2,417.81	324.72	2,431.70	0.00	0.00	
10,400.00	90.00	0.59	7,610.00	2,517.81	325.74	2,531.60	0.00	0.00	
10,500.00	90.00	0.59	7,610.00	2,617.80	326.76	2,631.51	0.00	0.00	
10,600.00	90.00	0.59	7,610.00	2,717.80	327.78	2,731.42	0.00	0.00	
10,700.00	90.00	0.59	7,610.00	2,817.79	328.81	2,831.32	0.00	0.00	
10,800.00	90.00	0.59	7,610.00	2,917.79	329.83	2,931.23	0.00	0.00	
10,900.00	90.00	0.59	7,610.00	3,017.78	330.85	3,031.14	0.00	0.00	
11,000.00	90.00	0.59	7,610.00	3,117.77	331.88	3,131.04	0.00	0.00	
11,100.00	90.00	0.59	7,610.00	3,217.77	332.90	3,230.95	0.00	0.00	
11,200.00	90.00	0.59	7,610.00	3,317.76	333.92	3,330.86	0.00	0.00	
11,300.00	90.00	0.59	7,610.00	3,417.76	334.94	3,430.76	0.00	0.00	
11,400.00	90.00	0.59	7,610.00	3,517.75	335.97	3,530.67	0.00	0.00	
11,500.00	90.00	0.59	7,610.00	3,617.75	336.99	3,630.58	0.00	0.00	
11,600.00	90.00	0.59	7,610.00	3,717.74	338.01	3,730.48	0.00	0.00	
11,700.00	90.00	0.59	7,610.00	3,817.74	339.04	3,830.39	0.00	0.00	
11,800.00	90.00	0.59	7,610.00	3,917.73	340.06	3,930.30	0.00	0.00	
11,900.00	90.00	0.59	7,610.00	4,017.73	341.08	4,030.21	0.00	0.00	
12,000.00	90.00	0.59	7,610.00	4,117.72	342.10	4,130.11	0.00	0.00	
12,100.00	90.00	0.59	7,610.00	4,217.72	343.13	4,230.02	0.00	0.00	
12,200.00	90.00	0.59	7,610.00	4,317.71	344.15	4,329.93	0.00	0.00	
12,300.00	90.00	0.59	7,610.00	4,417.71	345.17	4,429.83	0.00	0.00	
12,400.00	90.00	0.59	7,610.00	4,517.70	346.20	4,529.74	0.00	0.00	
12,500.00	90.00	0.59	7,610.00	4,617.70	347.22	4,629.65	0.00	0.00	
12,600.00	90.00	0.59	7,610.00	4,717.69	348.24	4,729.55	0.00	0.00	
12,700.00	90.00	0.59	7,610.00	4,817.69	349.26	4,829.46	0.00	0.00	
12,800.00	90.00	0.59	7,610.00	4,917.68	350.29	4,929.37	0.00	0.00	
12,900.00	90.00	0.59	7,610.00	5,017.68	351.31	5,029.27	0.00	0.00	
13,000.00	90.00	0.59	7,610.00	5,117.67	352.33	5,129.18	0.00	0.00	
13,100.00	90.00	0.59	7,610.00	5,217.66	353.35	5,229.09	0.00	0.00	
13,200.00	90.00	0.59	7,610.00	5,317.66	354.38	5,328.99	0.00	0.00	
13,300.00	90.00	0.59	7,610.00	5,417.65	355.40	5,428.90	0.00	0.00	
13,400.00	90.00	0.59	7,610.00	5,517.65	356.42	5,528.81	0.00	0.00	
13,500.00	90.00	0.59	7,610.00	5,617.64	357.45	5,628.71	0.00	0.00	
13,600.00	90.00	0.59	7,610.00	5,717.64	358.47	5,728.62	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 4987.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 4987.00usft
Site:	S26-T2N-R68W	North Reference:	Grid
Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
13,700.00	90.00	0.59	7,610.00	5,817.63	359.49	5,828.53	0.00	0.00	
13,800.00	90.00	0.59	7,610.00	5,917.63	360.51	5,928.44	0.00	0.00	
13,900.00	90.00	0.59	7,610.00	6,017.62	361.54	6,028.34	0.00	0.00	
14,000.00	90.00	0.59	7,610.00	6,117.62	362.56	6,128.25	0.00	0.00	
14,100.00	90.00	0.59	7,610.00	6,217.61	363.58	6,228.16	0.00	0.00	
14,200.00	90.00	0.59	7,610.00	6,317.61	364.61	6,328.06	0.00	0.00	
14,300.00	90.00	0.59	7,610.00	6,417.60	365.63	6,427.97	0.00	0.00	
14,400.00	90.00	0.59	7,610.00	6,517.60	366.65	6,527.88	0.00	0.00	
14,500.00	90.00	0.59	7,610.00	6,617.59	367.67	6,627.78	0.00	0.00	
14,600.00	90.00	0.59	7,610.00	6,717.59	368.70	6,727.69	0.00	0.00	
14,700.00	90.00	0.59	7,610.00	6,817.58	369.72	6,827.60	0.00	0.00	
14,800.00	90.00	0.59	7,610.00	6,917.58	370.74	6,927.50	0.00	0.00	
14,823.68	90.00	0.59	7,610.00	6,941.25	370.99	6,951.16	0.00	0.00	TD at 14823.68

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SULLIVAN 4K PBHL - plan misses target center by 116.88usft at 14821.77usft MD (7610.00 TVD, 6939.35 N, 370.97 E) - Point	0.00	0.00	7,610.00	6,940.54	254.09	1,288,068.76	3,150,565.61	40.122887	-104.961587
SULLIVAN 4K TPZ - plan misses target center by 19.72usft at 7792.14usft MD (7560.77 TVD, -83.77 N, 299.13 E) - Point	0.00	0.00	7,560.70	-83.94	318.84	1,281,044.27	3,150,630.36	40.103603	-104.961508
SULLIVAN 4K PBHL 3.7 - plan hits target center - Point	0.00	0.00	7,610.00	6,941.25	370.99	1,288,069.46	3,150,682.50	40.122887	-104.961169

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,539.22	1,533.00	UPPER PIERRE AQUIFER BASE			
4,438.72	4,406.00	SUSSEX			
4,731.40	4,696.00	SUSSEX MARKER			
4,987.74	4,950.00	SHANNON			
7,285.32	7,231.00	SHARON SPRINGS			
7,382.04	7,313.00	NIOBRARA			
7,386.99	7,317.00	A MARL			
7,472.76	7,383.00	B CHALK			
7,504.94	7,406.00	B MARL			
7,603.78	7,470.00	C CHALK			
7,651.43	7,497.00	C MARL			
7,702.54	7,523.00	D CHALK			
7,881.26	7,588.00	FT HAYES			

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 4987.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 4987.00usft
Site:	S26-T2N-R68W	North Reference:	Grid
Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.00	600.00	0.00	0.00	KOP @ 600'
987.60	986.42	-22.98	12.55	EOB; INC=7.75°
5,152.83	5,113.58	-516.02	281.92	Start Drop -2.00
5,540.43	5,500.00	-539.00	294.47	EOD; INC=0°
6,934.23	6,893.80	-539.00	294.47	Start Build 8.00
7,791.96	7,560.71	-83.94	299.12	TPZ - 7791' MD
8,059.23	7,610.00	177.16	301.80	LP @ 7610' TVD; 90°
14,823.68	7,610.00	6,941.25	370.99	TD at 14823.68

Crestone Peak Resources

DJ BASIN

S26-T2N-R68W

SULLIVAN 4K-26H-P268

OH

PLAN #2

Anticollision Report

31 March, 2017

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Reference	PLAN #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,500.00usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	3/31/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	14,823.68	PLAN #2 (OH)	MWD+HDGM	OWSG MWD + HDGM

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
S26-T2N-R68W						
Billings 1 - CPR WELL - GYRO						Out of range
Billings 31-34 - CPR WELL - SURVEYS						Out of range
Billings 32-34 - CPR WELL - GYRO						Out of range
Billings 41-34 - CPR WELL - SURVEYS						Out of range
Billings 42-34 - Existing - SURVEYS						Out of range
Billings 8-4-34 - CPR WELL - SURVEYS						Out of range
Bybee 5 - Wellbore #1 - PLAN #1	14,823.68	12,639.47	1,480.11	1,281.27	7.444	CC, ES, SF
Duke State 30-36 - KMG WELL - SURVEYS	6,989.85	7,026.13	255.19	200.01	4.625	CC
Duke State 30-36 - KMG WELL - SURVEYS	7,000.00	7,035.92	255.22	200.00	4.622	ES, SF
Elmquist 0-0-23 - CPR WELL - SURVEYS						Out of range
Elmquist 1 - CPR WELL - GYRO						Out of range
Elmquist 12-23 - CPR WELL - GYRO						Out of range
Elmquist 21-23 - CPR WELL - SURVEYS						Out of range
Elmquist 2-4-23 - CPR WELL - SURVEYS						Out of range
Elmquist 4-2-23 - CPR WELL - SURVEYS						Out of range
Elmquist 4-4-23 - CPR WELL - SURVEYS						Out of range
Goddard Gulch 21-26 - CPR WELL - SURVEYS						Out of range
Grant 1 - KPK WELL - NO SURVEYS						Out of range
Grant 4 - KPK WELL - NO SURVEYS						Out of range
Grant Bros 23-2AE - EXTRACTION - SURVEYS	14,823.68	8,000.00	1,328.66	1,176.05	8.706	CC, ES, SF
Grant Bros 23-43 - EXTRACTION - SURVEYS	14,600.00	7,861.80	581.74	434.65	3.955	SF
Grant Bros 23-43 - EXTRACTION - SURVEYS	14,635.41	7,862.56	580.66	433.96	3.958	CC, ES
Grant Bros 23-4AE - EXTRACTION - SURVEYS						Out of range
Grant Bros 23-54 - EXTRACTION - SURVEYS	13,942.36	7,680.21	1,233.93	1,109.16	9.889	CC, ES
Grant Bros 23-54 - EXTRACTION - SURVEYS	14,000.00	7,680.14	1,235.28	1,110.11	9.869	SF
Grant Bros 31-26 - CPR WELL - GYRO						Out of range
Grant Bros 32-26 - CPR - GYRO						Out of range
Grant Bros 3-23 - CPR WELL - SURVEYS						Out of range
Grant Bros 41-26 - SUNDANCE WELL - NO SURVEYS						Out of range
Grant Bros 42-26 - CPR WELL - SURVEYS	10,554.11	7,637.70	402.15	330.73	5.631	CC, ES
Grant Bros 42-26 - CPR WELL - SURVEYS	10,600.00	7,637.86	404.76	332.64	5.612	SF
Grant Bros 43-23 - SUNDANCE WELL - NO SURVEYS						Out of range
Grant Brothers 2-26 - CPR - NO SURVEYS	11,021.49	7,567.99	964.60	891.10	13.123	CC, ES
Grant Brothers 2-26 - CPR - NO SURVEYS	11,100.00	7,567.99	967.79	893.46	13.019	SF
Grant Brothers 33-23C - EXTRACTION - NO SURVEYS						Out of range
Grant Brothers 34-23C - EXTRACTION - GYRO						Out of range
Grant Brothers 44-23C - EXTRACTION - GYRO	13,176.39	7,580.52	534.93	430.63	5.129	CC, ES
Grant Brothers 44-23C - EXTRACTION - GYRO	13,200.00	7,580.44	535.45	430.94	5.124	SF
Haley 31-22 - CPR WELL - SURVEYS						Out of range
Haley 41-22 - CPR WELL - SURVEYS						Out of range
Haley 4-2-22 - CPR WELL - SURVEYS						Out of range
Haley 8-2-22 - CPR WELL - SURVEYS						Out of range
Haley 8-4-22 - CPR WELL - SURVEYS						Out of range
Johnson 1 - KPK - NO SURVEYS						Out of range
Johnson 2 - KPK WELL - NO SURVEYS						Out of range
Meredith 1 - KPK WELL - NO SURVEYS	600.00	571.99	109.83	106.90	37.499	CC, ES
Meredith 1 - KPK WELL - NO SURVEYS	5,152.83	5,085.57	697.67	670.39	25.579	SF
Puritan 6-4-34 - CPR WELL - SURVEYS						Out of range
Sullivan 1 - CPR - NO SURVEYS	9,313.39	7,594.00	839.75	792.87	17.912	CC, ES
Sullivan 1 - CPR - NO SURVEYS	9,400.00	7,594.00	844.20	796.54	17.712	SF
Sullivan 33-26 - CPR WELL - SURVEYS						Out of range
Sullivan 34-26 - CPR WELL - SURVEYS						Out of range
Sullivan 44-26 - CPR WELL - GYRO	153.48	127.47	49.10	48.55	88.765	CC

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
S26-T2N-R68W						
Sullivan 44-26 - CPR WELL - GYRO	700.00	674.03	49.77	46.32	14.421	ES
Sullivan 44-26 - CPR WELL - GYRO	7,950.00	7,578.96	414.01	372.72	10.027	SF
Sullivan 4-6-26 - CPR WELL - SURVEYS						Out of range
SULLIVAN 4A-26H-P268 - OH - PLAN #4	200.00	200.00	100.14	99.15	100.853	CC, ES
SULLIVAN 4A-26H-P268 - OH - PLAN #4	800.00	772.36	161.49	156.02	29.495	SF
SULLIVAN 4B-26H-P268 - OH - PLAN #4	300.00	300.00	90.07	88.36	52.677	CC, ES
SULLIVAN 4B-26H-P268 - OH - PLAN #4	800.00	780.16	134.30	128.92	24.955	SF
SULLIVAN 4C-26H-P268 - OH - PLAN #3	400.00	400.00	80.00	77.58	32.966	CC, ES
SULLIVAN 4C-26H-P268 - OH - PLAN #3	800.00	787.11	108.79	103.49	20.511	SF
SULLIVAN 4D-26H-P268 - OH - PLAN #2	500.00	500.00	70.21	67.07	22.334	CC, ES
SULLIVAN 4D-26H-P268 - OH - PLAN #2	800.00	792.09	87.73	82.47	16.684	SF
SULLIVAN 4E-26H-P268 - OH - PLAN #2	600.00	600.00	60.14	56.28	15.578	CC, ES
SULLIVAN 4E-26H-P268 - OH - PLAN #2	800.00	795.63	69.96	64.72	13.350	SF
SULLIVAN 4F-26H-P268 - OH - PLAN #2	200.00	200.00	50.07	49.08	50.426	CC
SULLIVAN 4F-26H-P268 - OH - PLAN #2	300.00	299.36	50.70	49.00	29.831	ES
SULLIVAN 4F-26H-P268 - OH - PLAN #2	14,823.68	14,856.87	1,390.14	1,155.90	5.935	SF
SULLIVAN 4G-26H-P268 - OH - PLAN #2	600.00	600.00	40.00	36.14	10.361	CC, ES
SULLIVAN 4G-26H-P268 - OH - PLAN #2	14,823.68	14,519.68	1,153.85	925.39	5.051	SF
SULLIVAN 4H-26H-P268 - OH - PLAN #2	200.00	200.00	30.21	29.22	30.370	CC
SULLIVAN 4H-26H-P268 - OH - PLAN #2	300.00	299.95	30.27	28.57	17.839	ES
SULLIVAN 4H-26H-P268 - OH - PLAN #2	14,823.68	14,703.04	800.63	569.30	3.461	SF
SULLIVAN 4I-26H-P268 - OH - PLAN #2	352.10	352.11	20.13	18.06	9.704	CC
SULLIVAN 4I-26H-P268 - OH - PLAN #2	400.00	399.98	20.17	17.76	8.369	ES
SULLIVAN 4I-26H-P268 - OH - PLAN #2	14,823.68	14,589.89	475.86	261.90	2.224	SF
SULLIVAN 4J-26H-P268 - OH - PLAN #2	499.49	499.56	9.28	6.17	2.986	CC
SULLIVAN 4J-26H-P268 - OH - PLAN #2	500.00	500.07	9.28	6.17	2.983	ES
SULLIVAN 4J-26H-P268 - OH - PLAN #2	14,823.68	14,691.86	231.97	28.51	1.140	Level 2, SF
SULLIVAN 4L-26H-P268 - OH - PLAN #2	200.00	200.00	9.79	8.80	9.864	CC
SULLIVAN 4L-26H-P268 - OH - PLAN #2	14,823.68	14,647.70	134.12	5.77	1.045	Level 2, ES, SF
Sullivan 6-8-26 - CPR - SURVEYS	4,345.03	4,482.39	1,228.28	1,199.85	43.214	CC
Sullivan 6-8-26 - CPR - SURVEYS	4,400.00	4,528.21	1,228.48	1,199.81	42.848	ES
Sullivan 6-8-26 - CPR - SURVEYS	7,800.00	7,671.60	1,341.40	1,296.15	29.646	SF
Sullivan 8-6-26 - CPR WELL - SURVEYS	8,664.67	7,696.39	111.87	42.18	1.605	CC, ES, SF
Walsh 13-24 - CPR WELL - SURVEYS	14,805.97	7,674.10	592.31	462.00	4.546	CC, ES
Walsh 13-24 - CPR WELL - SURVEYS	14,823.68	7,675.45	592.57	462.04	4.540	SF
Walsh 23-24 - PDC - GYRO						Out of range
Walsh 24-24 - PDC - GYRO						Out of range

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design												S26-T2N-R68W - Bybee 5 - Wellbore #1 - PLAN #1												Offset Site Error:		0.00 usft	
Survey Program:												0-MWD+HDGM												Offset Well Error:		0.00 usft	
Reference				Offset				Semi Major Axis				Distance								Warning							
Measured		Vertical		Measured		Vertical		Reference		Offset		Highside		Offset Wellbore Centre		Between		Between						Total		Separation	
Depth		Depth		Depth		Depth		(usft)		(usft)		Toolface		+N/-S		+E/-W		(usft)						(usft)		Uncertainty	
(usft)		(usft)		(usft)		(usft)						(°)		(usft)		(usft)		(usft)		(usft)		Axis					
14,800.00		7,610.00		12,639.47		7,272.00		116.50		87.87		-79.83		7,256.03		-1,052.43		1,485.09		1,287.18		197.91		7.504			
14,823.68		7,610.00		12,639.47		7,272.00		116.86		87.87		-79.83		7,256.03		-1,052.43		1,480.11		1,281.27		198.84		7.444 CC, ES, SF			

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Duke State 30-36 - KMG WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 40-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
1,900.00	1,890.48	1,990.99	1,990.56	6.83	7.95	-16.68	-1,176.09	1,116.74	1,483.17	1,468.77	14.40	102.991	
2,000.00	1,989.57	2,151.47	2,150.18	7.23	8.57	-16.90	-1,165.06	1,104.45	1,460.22	1,444.93	15.29	95.491	
2,100.00	2,088.65	2,324.91	2,321.61	7.63	9.35	-17.19	-1,146.57	1,085.96	1,432.61	1,416.39	16.22	88.335	
2,200.00	2,187.74	2,487.95	2,481.31	8.04	10.19	-17.45	-1,123.91	1,062.32	1,400.15	1,383.06	17.09	81.938	
2,300.00	2,286.82	2,623.14	2,612.45	8.45	11.01	-17.70	-1,101.03	1,038.75	1,363.46	1,345.57	17.89	76.213	
2,400.00	2,385.91	2,723.88	2,709.72	8.85	11.67	-17.85	-1,083.37	1,019.38	1,325.22	1,306.59	18.63	71.116	
2,500.00	2,485.00	2,810.32	2,793.19	9.26	12.25	-17.97	-1,068.69	1,002.45	1,287.12	1,267.75	19.37	66.466	
2,600.00	2,584.08	2,903.26	2,882.97	9.67	12.91	-18.14	-1,052.30	984.84	1,249.03	1,228.91	20.12	62.094	
2,700.00	2,683.17	2,984.29	2,961.36	10.08	13.49	-18.31	-1,038.27	969.91	1,211.53	1,190.67	20.86	58.069	
2,800.00	2,782.26	3,079.10	3,053.20	10.49	14.18	-18.49	-1,022.36	952.49	1,174.43	1,152.80	21.63	54.303	
2,900.00	2,881.34	3,172.96	3,144.04	10.90	14.90	-18.69	-1,006.47	935.07	1,137.11	1,114.72	22.40	50.773	
3,000.00	2,980.43	3,259.31	3,227.68	11.30	15.55	-18.90	-991.76	919.43	1,100.04	1,076.87	23.17	47.480	
3,100.00	3,079.51	3,344.19	3,310.04	11.71	16.20	-19.12	-977.67	904.46	1,063.62	1,039.67	23.95	44.415	
3,200.00	3,178.60	3,424.98	3,388.60	12.12	16.80	-19.31	-965.26	890.31	1,028.10	1,003.37	24.73	41.576	
3,300.00	3,277.69	3,526.95	3,487.89	12.54	17.56	-19.55	-950.04	872.77	993.13	967.62	25.51	38.936	
3,400.00	3,376.77	3,622.76	3,580.94	12.95	18.31	-19.85	-934.35	856.19	957.13	930.83	26.30	36.398	
3,500.00	3,475.86	3,719.07	3,674.47	13.36	19.07	-20.22	-918.21	839.87	921.16	894.07	27.09	34.004	
3,600.00	3,574.94	3,810.81	3,763.52	13.77	19.80	-20.52	-903.52	823.41	885.00	857.11	27.89	31.736	
3,700.00	3,674.03	3,901.37	3,851.49	14.18	20.52	-20.78	-889.79	806.83	849.13	820.45	28.68	29.604	
3,800.00	3,773.12	4,001.60	3,948.81	14.59	21.32	-21.22	-873.35	789.41	813.18	783.71	29.47	27.594	
3,900.00	3,872.20	4,095.25	4,039.56	15.00	22.10	-21.76	-856.64	773.42	776.57	746.29	30.28	25.643	
4,000.00	3,971.29	4,187.41	4,128.90	15.41	22.86	-22.33	-840.38	757.69	740.16	709.06	31.11	23.794	
4,100.00	4,070.37	4,286.05	4,224.44	15.82	23.69	-23.03	-822.64	740.76	703.55	671.63	31.91	22.046	
4,200.00	4,169.46	4,378.52	4,313.84	16.24	24.48	-23.81	-805.18	724.83	666.43	633.67	32.76	20.344	
4,300.00	4,268.55	4,464.22	4,396.82	16.65	25.20	-24.61	-789.39	710.39	630.00	596.35	33.65	18.721	
4,400.00	4,367.63	4,565.98	4,495.52	17.06	26.05	-25.43	-772.65	692.12	594.04	559.60	34.44	17.251	
4,500.00	4,466.72	4,663.67	4,589.79	17.47	26.91	-26.28	-755.87	672.76	556.28	521.04	35.24	15.784	
4,600.00	4,565.81	4,756.03	4,678.88	17.88	27.72	-27.26	-739.52	654.69	518.55	482.43	36.12	14.358	
4,700.00	4,664.89	4,840.00	4,759.98	18.30	28.46	-28.23	-725.22	638.29	481.39	444.30	37.09	12.977	
4,800.00	4,763.98	4,930.31	4,847.55	18.71	29.21	-29.41	-710.65	621.76	445.83	407.79	38.04	11.720	
4,900.00	4,863.06	5,022.33	4,936.85	19.12	29.99	-30.92	-695.45	605.53	410.82	371.80	39.02	10.529	
5,000.00	4,962.15	5,110.94	5,022.93	19.53	30.72	-32.70	-680.66	590.56	376.65	336.54	40.11	9.390	
5,100.00	5,061.24	5,193.32	5,103.35	19.95	31.37	-34.51	-668.38	577.67	344.82	303.48	41.34	8.341	
5,152.83	5,113.58	5,234.25	5,143.59	20.16	31.65	-35.47	-663.14	572.33	329.84	287.81	42.03	7.847	
5,200.00	5,160.37	5,272.80	5,181.65	20.36	31.90	-36.21	-658.80	568.06	317.99	275.37	42.63	7.460	
5,300.00	5,259.85	5,361.06	5,269.17	20.75	32.42	-37.71	-650.77	559.84	297.67	253.88	43.79	6.798	
5,400.00	5,359.63	5,455.69	5,363.23	21.11	32.92	-38.98	-643.85	552.32	282.28	237.44	44.84	6.295	
5,500.00	5,459.57	5,548.15	5,455.34	21.46	33.37	-39.79	-638.49	546.24	271.58	225.78	45.80	5.929	
5,540.43	5,500.00	5,584.24	5,491.35	21.58	33.53	-111.39	-636.93	544.45	268.86	222.72	46.14	5.827	
5,600.00	5,559.57	5,636.90	5,543.96	21.76	33.74	-111.16	-635.15	542.85	266.45	219.85	46.60	5.718	
5,678.86	5,638.43	5,708.38	5,615.42	21.99	33.94	-110.94	-633.82	542.32	265.37	218.27	47.09	5.635	
5,700.00	5,659.57	5,728.07	5,635.11	22.05	33.97	-110.90	-633.70	542.43	265.44	218.24	47.20	5.624	
5,800.00	5,759.57	5,828.36	5,735.40	22.35	34.18	-110.91	-633.98	543.12	266.18	218.39	47.78	5.571	
5,900.00	5,859.57	5,932.70	5,839.73	22.65	34.34	-111.05	-634.43	542.39	265.68	217.38	48.29	5.501	
6,000.00	5,959.57	6,029.89	5,936.91	22.95	34.57	-111.04	-634.17	541.87	265.07	216.20	48.88	5.423	
6,100.00	6,059.57	6,131.46	6,038.49	23.26	34.81	-110.86	-633.25	541.86	264.75	215.23	49.52	5.346	
6,200.00	6,159.57	6,233.98	6,140.99	23.56	35.05	-110.92	-633.03	540.45	263.37	213.26	50.11	5.256	
6,300.00	6,259.57	6,334.18	6,241.18	23.87	35.31	-110.96	-632.63	538.90	261.79	211.06	50.72	5.161	
6,400.00	6,359.57	6,434.80	6,341.77	24.17	35.61	-111.00	-632.01	536.75	259.58	208.21	51.36	5.054	
6,500.00	6,459.57	6,531.37	6,438.33	24.48	35.92	-110.83	-630.86	535.86	258.28	206.22	52.06	4.961	
6,600.00	6,559.57	6,630.56	6,537.52	24.79	36.16	-110.65	-629.95	535.84	257.93	205.23	52.70	4.894	
6,700.00	6,659.57	6,729.90	6,636.84	25.10	36.41	-110.40	-628.72	535.78	257.45	204.09	53.36	4.825	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Duke State 30-36 - KMG WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 40-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
6,707.73	6,667.30	6,737.35	6,644.29	25.13	36.42	110.38	-628.66	535.80	257.44	204.05	53.40	4.821	
6,800.00	6,759.57	6,829.28	6,736.22	25.42	36.53	110.27	-628.27	536.24	257.72	203.87	53.85	4.786	
6,900.00	6,859.57	6,935.18	6,842.11	25.73	36.81	109.98	-626.79	535.92	256.97	202.41	54.56	4.709	
6,934.23	6,893.80	6,971.37	6,878.28	25.84	36.95	109.84	-625.86	535.23	256.06	201.21	54.85	4.669	
6,950.00	6,909.57	6,987.16	6,894.06	25.89	37.01	109.27	-625.49	534.87	255.65	200.69	54.97	4.651	
6,989.85	6,949.37	7,026.13	6,933.02	26.01	37.14	109.66	-624.87	533.92	255.19	200.01	55.18	4.625 CC	
7,000.00	6,959.48	7,035.92	6,942.80	26.04	37.17	109.83	-624.81	533.68	255.22	200.00	55.22	4.622 ES, SF	
7,050.00	7,009.07	7,083.88	6,990.75	26.18	37.27	111.14	-624.94	532.52	256.36	201.10	55.26	4.639	
7,100.00	7,058.10	7,131.31	7,038.16	26.31	37.33	113.01	-625.44	531.53	259.33	204.16	55.17	4.701	
7,150.00	7,106.32	7,177.89	7,084.74	26.44	37.39	115.29	-626.07	530.79	264.44	209.43	55.01	4.807	
7,200.00	7,153.51	7,223.47	7,130.30	26.55	37.45	117.81	-626.71	530.32	272.05	217.19	54.86	4.959	
7,250.00	7,199.44	7,267.78	7,174.62	26.66	37.52	120.42	-627.34	530.12	282.49	227.73	54.75	5.159	
7,300.00	7,243.88	7,310.50	7,217.33	26.76	37.61	123.00	-628.05	530.09	296.05	241.31	54.74	5.409	
7,350.00	7,286.61	7,351.52	7,258.33	26.85	37.70	125.43	-628.87	530.18	312.97	258.15	54.82	5.709	
7,400.00	7,327.43	7,391.68	7,298.49	26.94	37.80	127.71	-629.74	530.34	333.31	278.30	55.02	6.058	
7,450.00	7,366.13	7,430.03	7,336.83	27.02	37.90	129.67	-630.51	530.51	356.98	301.68	55.30	6.455	
7,500.00	7,402.54	7,466.01	7,372.80	27.10	37.99	131.21	-631.19	530.68	383.92	328.27	55.65	6.899	
7,550.00	7,436.46	7,499.48	7,406.27	27.18	38.08	132.29	-631.79	530.85	414.01	357.97	56.03	7.388	
7,600.00	7,467.74	7,530.37	7,437.15	27.26	38.16	132.87	-632.31	531.01	447.05	390.61	56.44	7.921	
7,650.00	7,496.23	7,558.55	7,465.33	27.34	38.24	132.87	-632.77	531.16	482.82	425.98	56.84	8.494	
7,700.00	7,521.78	7,584.16	7,490.93	27.43	38.31	132.26	-633.16	531.28	521.05	463.82	57.23	9.105	
7,750.00	7,544.27	7,606.72	7,513.49	27.53	38.37	130.86	-633.47	531.38	561.47	503.87	57.59	9.749	
7,800.00	7,563.59	7,626.09	7,532.86	27.64	38.43	128.50	-633.72	531.47	603.80	545.87	57.93	10.423	
7,850.00	7,579.65	7,642.16	7,548.93	27.76	38.47	124.91	-633.91	531.53	647.77	589.54	58.23	11.125	
7,900.00	7,592.37	7,654.84	7,561.61	27.89	38.51	119.73	-634.05	531.57	693.10	634.61	58.49	11.849	
7,950.00	7,601.69	7,664.03	7,570.80	28.04	38.54	112.49	-634.14	531.61	739.52	680.79	58.73	12.592	
8,000.00	7,607.55	7,669.66	7,576.43	28.20	38.55	102.74	-634.20	531.63	786.74	727.81	58.93	13.351	
8,050.00	7,609.94	7,671.67	7,578.44	28.37	38.56	90.44	-634.21	531.64	834.49	775.39	59.10	14.120	
8,059.23	7,610.00	7,671.64	7,578.41	28.41	38.56	87.94	-634.21	531.64	843.34	784.22	59.13	14.263	
8,100.00	7,610.00	7,671.23	7,578.00	28.56	38.56	87.84	-634.21	531.64	882.53	823.28	59.25	14.896	
8,200.00	7,610.00	7,670.23	7,577.00	29.01	38.56	87.60	-634.20	531.63	979.18	919.68	59.51	16.455	
8,300.00	7,610.00	7,669.21	7,575.98	29.54	38.55	87.35	-634.19	531.63	1,076.45	1,016.73	59.72	18.024	
8,400.00	7,610.00	7,668.17	7,574.94	30.15	38.55	87.10	-634.18	531.63	1,174.18	1,114.27	59.91	19.599	
8,500.00	7,610.00	7,667.13	7,573.90	30.83	38.55	86.85	-634.17	531.62	1,272.26	1,212.18	60.07	21.179	
8,600.00	7,610.00	7,666.07	7,572.84	31.57	38.54	86.60	-634.16	531.62	1,370.61	1,310.40	60.21	22.763	
8,700.00	7,610.00	7,664.99	7,571.76	32.37	38.54	86.34	-634.15	531.61	1,469.19	1,408.85	60.34	24.349	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Grant Bros 23-2AE - EXTRACTION - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 118-ISCWSA MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
14,500.00	7,610.00	8,000.49	7,601.37	111.91	41.31	-91.99	7,412.14	-870.67	1,471.97	1,334.26	137.71	10.689	
14,600.00	7,610.00	8,000.34	7,601.22	113.44	41.31	-91.99	7,412.14	-870.68	1,421.38	1,278.86	142.52	9.973	
14,700.00	7,610.00	8,000.19	7,601.07	114.97	41.31	-91.98	7,412.14	-870.68	1,376.21	1,229.01	147.21	9.349	
14,800.00	7,610.00	8,000.04	7,600.91	116.50	41.31	-91.97	7,412.14	-870.69	1,337.01	1,185.39	151.62	8.818	
14,823.68	7,610.00	8,000.00	7,600.88	116.86	41.31	-91.97	7,412.14	-870.69	1,328.66	1,176.05	152.61	8.706	CC, ES, SF

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Grant Bros 23-43 - EXTRACTION - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 177-ISCWSA MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
13,300.00	7,610.00	7,834.71	7,531.90	93.70	37.80	-87.43	6,758.36	-211.64	1,455.92	1,372.38	83.54	17.428	
13,400.00	7,610.00	7,836.74	7,533.92	95.21	37.80	-87.63	6,758.40	-211.63	1,364.82	1,278.46	86.37	15.803	
13,500.00	7,610.00	7,838.78	7,535.96	96.72	37.81	-87.83	6,758.44	-211.63	1,275.05	1,185.45	89.60	14.231	
13,600.00	7,610.00	7,840.83	7,538.01	98.23	37.81	-88.03	6,758.49	-211.62	1,186.92	1,093.62	93.30	12.722	
13,700.00	7,610.00	7,842.88	7,540.06	99.74	37.81	-88.23	6,758.53	-211.62	1,100.81	1,003.27	97.54	11.286	
13,800.00	7,610.00	7,844.95	7,542.13	101.26	37.81	-88.43	6,758.57	-211.61	1,017.24	914.85	102.39	9.935	
13,900.00	7,610.00	7,847.02	7,544.20	102.78	37.82	-88.64	6,758.61	-211.61	936.89	828.99	107.90	8.683	
14,000.00	7,610.00	7,849.10	7,546.28	104.30	37.82	-88.84	6,758.66	-211.60	860.66	746.57	114.09	7.544	
14,100.00	7,610.00	7,851.20	7,548.38	105.82	37.82	-89.05	6,758.70	-211.60	789.75	668.85	120.90	6.532	
14,200.00	7,610.00	7,853.30	7,550.48	107.34	37.82	-89.26	6,758.74	-211.59	725.72	597.61	128.11	5.665	
14,300.00	7,610.00	7,855.41	7,552.59	108.86	37.83	-89.47	6,758.79	-211.59	670.53	535.29	135.24	4.958	
14,400.00	7,610.00	7,857.53	7,554.71	110.39	37.83	-89.68	6,758.83	-211.58	626.54	485.04	141.50	4.428	
14,500.00	7,610.00	7,859.66	7,556.84	111.91	37.83	-89.89	6,758.88	-211.57	596.23	450.43	145.80	4.089	
14,600.00	7,610.00	7,861.80	7,558.98	113.44	37.83	-90.10	6,758.92	-211.57	581.74	434.65	147.08	3.955 SF	
14,635.41	7,610.00	7,862.56	7,559.74	113.98	37.83	-90.17	6,758.94	-211.56	580.66	433.96	146.69	3.958 CC, ES	
14,700.00	7,610.00	7,863.95	7,561.12	114.97	37.84	-90.31	6,758.97	-211.56	584.24	439.38	144.86	4.033	
14,800.00	7,610.00	7,866.10	7,563.28	116.50	37.84	-90.52	6,759.01	-211.55	603.52	463.97	139.55	4.325	
14,823.68	7,610.00	7,866.62	7,563.79	116.86	37.84	-90.57	6,759.02	-211.55	610.40	472.43	137.97	4.424	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Grant Bros 23-54 - EXTRACTION - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 118-ISCWSA MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,100.00	7,610.00	7,681.20	7,569.10	90.69	23.32	-90.47	6,072.60	-871.86	1,494.04	1,392.69	101.35	14.741	
13,200.00	7,610.00	7,681.08	7,568.98	92.20	23.32	-90.46	6,072.60	-871.86	1,440.03	1,335.08	104.95	13.721	
13,300.00	7,610.00	7,680.96	7,568.86	93.70	23.32	-90.46	6,072.60	-871.86	1,391.12	1,282.59	108.53	12.817	
13,400.00	7,610.00	7,680.85	7,568.74	95.21	23.32	-90.45	6,072.60	-871.86	1,347.87	1,235.85	112.02	12.033	
13,500.00	7,610.00	7,680.73	7,568.62	96.72	23.32	-90.45	6,072.60	-871.86	1,310.83	1,195.53	115.30	11.369	
13,600.00	7,610.00	7,680.61	7,568.51	98.23	23.32	-90.44	6,072.60	-871.86	1,280.55	1,162.27	118.28	10.826	
13,700.00	7,610.00	7,680.49	7,568.39	99.74	23.32	-90.44	6,072.60	-871.86	1,257.51	1,136.66	120.84	10.406	
13,800.00	7,610.00	7,680.38	7,568.27	101.26	23.32	-90.43	6,072.60	-871.86	1,242.12	1,119.22	122.89	10.107	
13,900.00	7,610.00	7,680.26	7,568.16	102.78	23.32	-90.43	6,072.60	-871.86	1,234.66	1,110.31	124.35	9.929	
13,942.36	7,610.00	7,680.21	7,568.11	103.42	23.32	-90.42	6,072.60	-871.86	1,233.93	1,109.16	124.78	9.889 CC, ES	
14,000.00	7,610.00	7,680.14	7,568.04	104.30	23.32	-90.42	6,072.60	-871.86	1,235.28	1,110.11	125.17	9.869 SF	
14,100.00	7,610.00	7,680.03	7,567.93	105.82	23.32	-90.41	6,072.60	-871.86	1,243.96	1,118.62	125.34	9.925	
14,200.00	7,610.00	7,679.92	7,567.81	107.34	23.32	-90.41	6,072.60	-871.87	1,260.54	1,135.64	124.90	10.092	
14,300.00	7,610.00	7,679.80	7,567.70	108.86	23.32	-90.40	6,072.60	-871.87	1,284.72	1,160.81	123.91	10.368	
14,400.00	7,610.00	7,679.69	7,567.59	110.39	23.31	-90.40	6,072.60	-871.87	1,316.06	1,193.61	122.45	10.747	
14,500.00	7,610.00	7,679.58	7,567.47	111.91	23.31	-90.39	6,072.60	-871.87	1,354.09	1,233.45	120.63	11.225	
14,600.00	7,610.00	7,679.46	7,567.36	113.44	23.31	-90.39	6,072.61	-871.87	1,398.24	1,279.69	118.55	11.795	
14,700.00	7,610.00	7,679.35	7,567.25	114.97	23.31	-90.38	6,072.61	-871.87	1,447.96	1,331.68	116.28	12.452	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Grant Bros 42-26 - CPR WELL - SURVEYS													Offset Site Error: 0.00 usft	
Survey Program: 951-ISCWSA MWD													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
9,200.00	7,610.00	7,633.08	7,567.95	37.15	20.00	-89.57	2,676.01	-74.83	1,412.56	1,367.08	45.48	31.059		
9,300.00	7,610.00	7,633.42	7,568.30	38.22	20.00	-89.62	2,676.01	-74.83	1,317.00	1,271.28	45.73	28.801		
9,400.00	7,610.00	7,633.77	7,568.64	39.33	20.01	-89.66	2,676.01	-74.83	1,222.16	1,176.11	46.05	26.540		
9,500.00	7,610.00	7,634.11	7,568.99	40.48	20.01	-89.71	2,676.01	-74.82	1,128.21	1,081.74	46.47	24.278		
9,600.00	7,610.00	7,634.45	7,569.33	41.65	20.01	-89.76	2,676.01	-74.82	1,035.39	988.37	47.03	22.017		
9,700.00	7,610.00	7,634.80	7,569.67	42.84	20.01	-89.81	2,676.01	-74.82	944.04	896.28	47.77	19.764		
9,800.00	7,610.00	7,635.14	7,570.01	44.06	20.01	-89.86	2,676.01	-74.82	854.63	805.87	48.76	17.528		
9,900.00	7,610.00	7,635.48	7,570.36	45.31	20.01	-89.91	2,676.01	-74.82	767.84	717.74	50.10	15.327		
10,000.00	7,610.00	7,635.82	7,570.70	46.57	20.01	-89.96	2,676.02	-74.82	684.66	632.75	51.91	13.190		
10,100.00	7,610.00	7,636.16	7,571.04	47.85	20.01	-90.01	2,676.02	-74.82	606.58	552.24	54.34	11.164		
10,200.00	7,610.00	7,636.50	7,571.38	49.15	20.01	-90.05	2,676.02	-74.81	535.83	478.30	57.53	9.314		
10,300.00	7,610.00	7,636.84	7,571.72	50.46	20.01	-90.10	2,676.02	-74.81	475.70	414.20	61.51	7.734		
10,400.00	7,610.00	7,637.18	7,572.06	51.79	20.01	-90.15	2,676.02	-74.81	430.67	364.74	65.93	6.532		
10,500.00	7,610.00	7,637.52	7,572.40	53.13	20.01	-90.20	2,676.02	-74.81	405.77	335.84	69.93	5.803		
10,554.11	7,610.00	7,637.70	7,572.58	53.86	20.01	-90.23	2,676.02	-74.81	402.15	330.73	71.42	5.631 CC, ES		
10,600.00	7,610.00	7,637.86	7,572.73	54.49	20.01	-90.25	2,676.02	-74.81	404.76	332.64	72.12	5.612 SF		
10,700.00	7,610.00	7,638.20	7,573.07	55.85	20.01	-90.30	2,676.02	-74.81	427.79	355.94	71.85	5.954		
10,800.00	7,610.00	7,638.53	7,573.41	57.23	20.01	-90.34	2,676.02	-74.81	471.36	401.62	69.75	6.758		
10,900.00	7,610.00	7,638.87	7,573.75	58.62	20.01	-90.39	2,676.03	-74.81	530.44	463.55	66.89	7.931		
11,000.00	7,610.00	7,639.21	7,574.08	60.01	20.01	-90.44	2,676.03	-74.80	600.45	536.43	64.02	9.379		
11,100.00	7,610.00	7,639.54	7,574.42	61.42	20.01	-90.49	2,676.03	-74.80	678.02	616.54	61.49	11.027		
11,200.00	7,610.00	7,639.88	7,574.75	62.83	20.01	-90.53	2,676.03	-74.80	760.85	701.49	59.36	12.819		
11,300.00	7,610.00	7,640.21	7,575.09	64.25	20.02	-90.58	2,676.03	-74.80	847.39	789.79	57.60	14.711		
11,400.00	7,610.00	7,640.55	7,575.42	65.68	20.02	-90.63	2,676.03	-74.80	936.61	880.44	56.17	16.675		
11,500.00	7,610.00	7,640.88	7,575.76	67.11	20.02	-90.68	2,676.03	-74.80	1,027.82	972.83	55.00	18.689		
11,600.00	7,610.00	7,641.22	7,576.09	68.55	20.02	-90.73	2,676.03	-74.80	1,120.53	1,066.50	54.03	20.739		
11,700.00	7,610.00	7,641.55	7,576.43	70.00	20.02	-90.77	2,676.03	-74.79	1,214.40	1,161.17	53.23	22.814		
11,800.00	7,610.00	7,641.88	7,576.76	71.45	20.02	-90.82	2,676.04	-74.79	1,309.18	1,256.61	52.56	24.907		
11,900.00	7,610.00	7,642.22	7,577.09	72.90	20.02	-90.87	2,676.04	-74.79	1,404.68	1,352.67	52.00	27.011		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Grant Brothers 2-26 - CPR - NO SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 8110-Geolink MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)				Offset +N/-S (usft)	Offset +E/-W (usft)	
9,900.00	7,610.00	7,567.99	7,567.99	45.31	13.21	-90.00	3,149.13	-632.46	1,479.26	1,429.69	49.57	29.842		
10,000.00	7,610.00	7,567.99	7,567.99	46.57	13.21	-90.00	3,149.13	-632.46	1,404.96	1,353.76	51.19	27.444		
10,100.00	7,610.00	7,567.99	7,567.99	47.85	13.21	-90.00	3,149.13	-632.46	1,334.02	1,281.00	53.02	25.161		
10,200.00	7,610.00	7,567.99	7,567.99	49.15	13.21	-90.00	3,149.13	-632.46	1,267.01	1,211.96	55.05	23.017		
10,300.00	7,610.00	7,567.99	7,567.99	50.46	13.21	-90.00	3,149.13	-632.46	1,204.58	1,147.31	57.27	21.035		
10,400.00	7,610.00	7,567.99	7,567.99	51.79	13.21	-90.00	3,149.13	-632.46	1,147.48	1,087.82	59.66	19.235		
10,500.00	7,610.00	7,567.99	7,567.99	53.13	13.21	-90.00	3,149.13	-632.46	1,096.54	1,034.38	62.17	17.639		
10,600.00	7,610.00	7,567.99	7,567.99	54.49	13.21	-90.00	3,149.13	-632.46	1,052.67	987.94	64.73	16.264		
10,700.00	7,610.00	7,567.99	7,567.99	55.85	13.21	-90.00	3,149.13	-632.46	1,016.77	949.53	67.23	15.123		
10,800.00	7,610.00	7,567.99	7,567.99	57.23	13.21	-90.00	3,149.13	-632.46	989.71	920.14	69.57	14.226		
10,900.00	7,610.00	7,567.99	7,567.99	58.62	13.21	-90.00	3,149.13	-632.46	972.22	900.62	71.60	13.578		
11,000.00	7,610.00	7,567.99	7,567.99	60.01	13.21	-90.00	3,149.13	-632.46	964.84	891.62	73.22	13.177		
11,021.49	7,610.00	7,567.99	7,567.99	60.31	13.21	-90.00	3,149.13	-632.46	964.60	891.10	73.50	13.123 CC, ES		
11,100.00	7,610.00	7,567.99	7,567.99	61.42	13.21	-90.00	3,149.13	-632.46	967.79	893.46	74.34	13.019 SF		
11,200.00	7,610.00	7,567.99	7,567.99	62.83	13.21	-90.00	3,149.13	-632.46	980.98	906.06	74.92	13.093		
11,300.00	7,610.00	7,567.99	7,567.99	64.25	13.21	-90.00	3,149.13	-632.46	1,004.01	929.00	75.00	13.387		
11,400.00	7,610.00	7,567.99	7,567.99	65.68	13.21	-90.00	3,149.13	-632.46	1,036.21	961.58	74.63	13.885		
11,500.00	7,610.00	7,567.99	7,567.99	67.11	13.21	-90.00	3,149.13	-632.46	1,076.77	1,002.87	73.90	14.570		
11,600.00	7,610.00	7,567.99	7,567.99	68.55	13.21	-90.00	3,149.13	-632.46	1,124.78	1,051.87	72.91	15.426		
11,700.00	7,610.00	7,567.99	7,567.99	70.00	13.21	-90.00	3,149.13	-632.46	1,179.34	1,107.58	71.75	16.436		
11,800.00	7,610.00	7,567.99	7,567.99	71.45	13.21	-90.00	3,149.13	-632.46	1,239.57	1,169.07	70.50	17.583		
11,900.00	7,610.00	7,567.99	7,567.99	72.90	13.21	-90.00	3,149.13	-632.46	1,304.70	1,235.49	69.21	18.852		
12,000.00	7,610.00	7,567.99	7,567.99	74.37	13.21	-90.00	3,149.13	-632.46	1,374.02	1,306.10	67.93	20.229		
12,100.00	7,610.00	7,567.99	7,567.99	75.83	13.21	-90.00	3,149.13	-632.46	1,446.94	1,380.27	66.68	21.700		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Grant Brothers 44-23C - EXTRACTION - GYRO												Offset Site Error:	0.00 usft
Survey Program: 100-VESSI_GYROFLEX, 7741-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
11,800.00	7,610.00	7,585.32	7,584.73	71.45	12.49	-90.51	5,299.51	-180.76	1,476.68	1,427.11	49.57	29.789	
11,900.00	7,610.00	7,584.97	7,584.38	72.90	12.49	-90.47	5,299.51	-180.76	1,383.95	1,332.81	51.13	27.065	
12,000.00	7,610.00	7,584.62	7,584.03	74.37	12.49	-90.43	5,299.51	-180.76	1,292.30	1,239.33	52.97	24.397	
12,100.00	7,610.00	7,584.28	7,583.68	75.83	12.49	-90.39	5,299.51	-180.76	1,201.98	1,146.84	55.14	21.801	
12,200.00	7,610.00	7,583.93	7,583.33	77.30	12.49	-90.36	5,299.51	-180.76	1,113.32	1,055.62	57.70	19.296	
12,300.00	7,610.00	7,583.58	7,582.98	78.78	12.49	-90.32	5,299.51	-180.76	1,026.74	966.01	60.73	16.906	
12,400.00	7,610.00	7,583.23	7,582.63	80.26	12.49	-90.28	5,299.52	-180.76	942.83	878.50	64.33	14.656	
12,500.00	7,610.00	7,582.88	7,582.29	81.74	12.49	-90.24	5,299.52	-180.76	862.35	793.77	68.58	12.575	
12,600.00	7,610.00	7,582.53	7,581.94	83.22	12.49	-90.21	5,299.52	-180.76	786.37	712.82	73.55	10.692	
12,700.00	7,610.00	7,582.18	7,581.59	84.71	12.49	-90.17	5,299.52	-180.76	716.31	637.06	79.24	9.039	
12,800.00	7,610.00	7,581.83	7,581.24	86.20	12.49	-90.13	5,299.52	-180.76	654.08	568.53	85.54	7.646	
12,900.00	7,610.00	7,581.49	7,580.89	87.70	12.49	-90.10	5,299.52	-180.76	602.11	510.05	92.06	6.540	
13,000.00	7,610.00	7,581.14	7,580.54	89.19	12.49	-90.06	5,299.52	-180.76	563.26	465.19	98.07	5.743	
13,100.00	7,610.00	7,580.79	7,580.19	90.69	12.49	-90.02	5,299.52	-180.76	540.35	437.82	102.54	5.270	
13,176.39	7,610.00	7,580.52	7,579.93	91.84	12.49	-89.99	5,299.53	-180.76	534.93	430.63	104.30	5.129 CC, ES	
13,200.00	7,610.00	7,580.44	7,579.84	92.20	12.49	-89.98	5,299.53	-180.76	535.45	430.94	104.50	5.124 SF	
13,300.00	7,610.00	7,580.09	7,579.50	93.70	12.48	-89.95	5,299.53	-180.76	549.02	445.40	103.62	5.298	
13,400.00	7,610.00	7,579.74	7,579.15	95.21	12.48	-89.91	5,299.53	-180.76	579.78	479.42	100.36	5.777	
13,500.00	7,610.00	7,579.39	7,578.80	96.72	12.48	-89.87	5,299.53	-180.76	625.19	529.54	95.66	6.536	
13,600.00	7,610.00	7,579.04	7,578.45	98.23	12.48	-89.83	5,299.53	-180.76	682.34	591.91	90.43	7.545	
13,700.00	7,610.00	7,578.69	7,578.10	99.74	12.48	-89.80	5,299.53	-180.76	748.54	663.24	85.30	8.776	
13,800.00	7,610.00	7,578.35	7,577.75	101.26	12.48	-89.76	5,299.53	-180.76	821.60	741.03	80.57	10.197	
13,900.00	7,610.00	7,578.00	7,577.40	102.78	12.48	-89.72	5,299.53	-180.76	899.86	823.48	76.38	11.781	
14,000.00	7,610.00	7,577.65	7,577.05	104.30	12.48	-89.68	5,299.54	-180.76	982.07	909.35	72.72	13.504	
14,100.00	7,610.00	7,577.30	7,576.71	105.82	12.48	-89.65	5,299.54	-180.76	1,067.33	997.76	69.56	15.344	
14,200.00	7,610.00	7,576.95	7,576.36	107.34	12.48	-89.61	5,299.54	-180.76	1,154.95	1,088.11	66.84	17.279	
14,300.00	7,610.00	7,576.60	7,576.01	108.86	12.48	-89.57	5,299.54	-180.76	1,244.44	1,179.94	64.49	19.296	
14,400.00	7,610.00	7,576.25	7,575.66	110.39	12.48	-89.54	5,299.54	-180.76	1,335.42	1,272.95	62.47	21.378	
14,500.00	7,610.00	7,575.90	7,575.31	111.91	12.48	-89.50	5,299.54	-180.76	1,427.61	1,366.89	60.71	23.514	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Meredith 1 - KPK WELL - NO SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 5120-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-32.16	92.97	-58.47	113.35				
100.00	100.00	71.99	71.99	0.14	0.13	-32.16	92.97	-58.47	109.83	109.57	0.26	416.251	
200.00	200.00	171.99	171.99	0.50	0.30	-32.16	92.97	-58.47	109.83	109.03	0.80	137.829	
300.00	300.00	271.99	271.99	0.85	0.47	-32.16	92.97	-58.47	109.83	108.50	1.33	82.588	
400.00	400.00	371.99	371.99	1.21	0.65	-32.16	92.97	-58.47	109.83	107.97	1.86	58.958	
500.00	500.00	471.99	471.99	1.57	0.82	-32.16	92.97	-58.47	109.83	107.43	2.40	45.842	
600.00	600.00	571.99	571.99	1.93	1.00	-32.16	92.97	-58.47	109.83	106.90	2.93	37.499 CC, ES	
700.00	699.98	671.97	671.97	2.27	1.17	176.54	92.97	-58.47	111.57	108.13	3.45	32.375	
800.00	799.84	771.83	771.83	2.61	1.35	176.69	92.97	-58.47	116.80	112.84	3.96	29.523	
900.00	899.45	871.44	871.44	2.95	1.52	176.91	92.97	-58.47	125.50	121.02	4.47	28.057	
987.60	986.42	958.41	958.41	3.26	1.67	177.14	92.97	-58.47	135.97	131.04	4.93	27.580	
1,000.00	998.71	970.70	970.70	3.31	1.69	177.17	92.97	-58.47	137.64	132.64	5.00	27.543	
1,100.00	1,097.79	1,069.78	1,069.78	3.68	1.87	177.42	92.97	-58.47	151.12	145.60	5.52	27.398	
1,200.00	1,196.88	1,168.87	1,168.87	4.06	2.04	177.63	92.97	-58.47	164.59	158.55	6.04	27.260	
1,300.00	1,295.96	1,267.95	1,267.95	4.44	2.21	177.81	92.97	-58.47	178.07	171.51	6.56	27.131	
1,400.00	1,395.05	1,367.04	1,367.04	4.83	2.39	177.97	92.97	-58.47	191.55	184.46	7.09	27.012	
1,500.00	1,494.14	1,466.13	1,466.13	5.23	2.56	178.10	92.97	-58.47	205.03	197.41	7.62	26.904	
1,600.00	1,593.22	1,565.21	1,565.21	5.62	2.73	178.22	92.97	-58.47	218.51	210.36	8.15	26.804	
1,700.00	1,692.31	1,664.30	1,664.30	6.02	2.90	178.32	92.97	-58.47	231.99	223.31	8.68	26.713	
1,800.00	1,791.39	1,763.38	1,763.38	6.42	3.08	178.41	92.97	-58.47	245.48	236.26	9.22	26.630	
1,900.00	1,890.48	1,862.47	1,862.47	6.83	3.25	178.50	92.97	-58.47	258.96	249.21	9.75	26.554	
2,000.00	1,989.57	1,961.56	1,961.56	7.23	3.42	178.57	92.97	-58.47	272.45	262.16	10.29	26.484	
2,100.00	2,088.65	2,060.64	2,060.64	7.63	3.60	178.64	92.97	-58.47	285.93	275.11	10.82	26.419	
2,200.00	2,187.74	2,159.73	2,159.73	8.04	3.77	178.70	92.97	-58.47	299.42	288.06	11.36	26.359	
2,300.00	2,286.82	2,258.81	2,258.81	8.45	3.94	178.76	92.97	-58.47	312.90	301.01	11.90	26.304	
2,400.00	2,385.91	2,357.90	2,357.90	8.85	4.12	178.81	92.97	-58.47	326.39	313.95	12.43	26.253	
2,500.00	2,485.00	2,456.99	2,456.99	9.26	4.29	178.85	92.97	-58.47	339.87	326.90	12.97	26.205	
2,600.00	2,584.08	2,556.07	2,556.07	9.67	4.46	178.90	92.97	-58.47	353.36	339.85	13.51	26.161	
2,700.00	2,683.17	2,655.16	2,655.16	10.08	4.63	178.94	92.97	-58.47	366.85	352.80	14.05	26.119	
2,800.00	2,782.26	2,754.25	2,754.25	10.49	4.81	178.98	92.97	-58.47	380.33	365.75	14.58	26.080	
2,900.00	2,881.34	2,853.33	2,853.33	10.90	4.98	179.01	92.97	-58.47	393.82	378.70	15.12	26.044	
3,000.00	2,980.43	2,952.42	2,952.42	11.30	5.15	179.04	92.97	-58.47	407.30	391.65	15.66	26.010	
3,100.00	3,079.51	3,051.50	3,051.50	11.71	5.33	179.07	92.97	-58.47	420.79	404.59	16.20	25.977	
3,200.00	3,178.60	3,150.59	3,150.59	12.12	5.50	179.10	92.97	-58.47	434.28	417.54	16.74	25.947	
3,300.00	3,277.69	3,249.68	3,249.68	12.54	5.67	179.13	92.97	-58.47	447.77	430.49	17.28	25.918	
3,400.00	3,376.77	3,348.76	3,348.76	12.95	5.84	179.16	92.97	-58.47	461.25	443.44	17.81	25.891	
3,500.00	3,475.86	3,447.85	3,447.85	13.36	6.02	179.18	92.97	-58.47	474.74	456.39	18.35	25.866	
3,600.00	3,574.94	3,546.93	3,546.93	13.77	6.19	179.20	92.97	-58.47	488.23	469.33	18.89	25.841	
3,700.00	3,674.03	3,646.02	3,646.02	14.18	6.36	179.22	92.97	-58.47	501.71	482.28	19.43	25.818	
3,800.00	3,773.12	3,745.11	3,745.11	14.59	6.54	179.24	92.97	-58.47	515.20	495.23	19.97	25.796	
3,900.00	3,872.20	3,844.19	3,844.19	15.00	6.71	179.26	92.97	-58.47	528.69	508.18	20.51	25.775	
4,000.00	3,971.29	3,943.28	3,943.28	15.41	6.88	179.28	92.97	-58.47	542.18	521.13	21.05	25.755	
4,100.00	4,070.37	4,042.36	4,042.36	15.82	7.06	179.30	92.97	-58.47	555.66	534.07	21.59	25.736	
4,200.00	4,169.46	4,141.45	4,141.45	16.24	7.23	179.32	92.97	-58.47	569.15	547.02	22.13	25.718	
4,300.00	4,268.55	4,240.54	4,240.54	16.65	7.40	179.33	92.97	-58.47	582.64	559.97	22.67	25.701	
4,400.00	4,367.63	4,339.62	4,339.62	17.06	7.57	179.35	92.97	-58.47	596.13	572.92	23.21	25.684	
4,500.00	4,466.72	4,438.71	4,438.71	17.47	7.75	179.36	92.97	-58.47	609.62	585.87	23.75	25.668	
4,600.00	4,565.81	4,537.80	4,537.80	17.88	7.92	179.38	92.97	-58.47	623.10	598.81	24.29	25.653	
4,700.00	4,664.89	4,636.88	4,636.88	18.30	8.09	179.39	92.97	-58.47	636.59	611.76	24.83	25.638	
4,800.00	4,763.98	4,735.97	4,735.97	18.71	8.27	179.40	92.97	-58.47	650.08	624.71	25.37	25.624	
4,900.00	4,863.06	4,835.05	4,835.05	19.12	8.44	179.41	92.97	-58.47	663.57	637.66	25.91	25.611	
5,000.00	4,962.15	4,934.14	4,934.14	19.53	8.61	179.42	92.97	-58.47	677.05	650.61	26.45	25.598	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Meredith 1 - KPK WELL - NO SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 5120-Geolink MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.00	5,061.24	5,033.23	5,033.23	19.95	8.78	179.44	92.97	-58.47	690.54	663.55	26.99	25.585		
5,152.83	5,113.58	5,085.57	5,085.57	20.16	8.88	179.44	92.97	-58.47	697.67	670.39	27.28	25.579 SF		
5,200.00	5,160.37	5,119.99	5,119.99	20.36	8.94	179.45	92.97	-58.47	703.75	676.29	27.47	25.622		
5,300.00	5,259.85	5,119.99	5,119.99	20.75	8.94	179.45	92.97	-58.47	722.48	695.24	27.23	26.528		
5,400.00	5,359.63	5,119.99	5,119.99	21.11	8.94	179.46	92.97	-58.47	750.85	724.26	26.59	28.238		
5,500.00	5,459.57	5,119.99	5,119.99	21.46	8.94	179.46	92.97	-58.47	787.79	762.16	25.64	30.729		
5,540.43	5,500.00	5,119.99	5,119.99	21.58	8.94	-29.18	92.97	-58.47	804.90	779.72	25.18	31.963		
5,600.00	5,559.57	5,119.99	5,119.99	21.76	8.94	-29.18	92.97	-58.47	832.67	808.21	24.47	34.032		
5,700.00	5,659.57	5,119.99	5,119.99	22.05	8.94	-29.18	92.97	-58.47	886.38	863.15	23.22	38.170		
5,800.00	5,759.57	5,119.99	5,119.99	22.35	8.94	-29.18	92.97	-58.47	947.62	925.63	21.99	43.099		
5,900.00	5,859.57	5,119.99	5,119.99	22.65	8.94	-29.18	92.97	-58.47	1,015.03	994.22	20.81	48.767		
6,000.00	5,959.57	5,119.99	5,119.99	22.95	8.94	-29.18	92.97	-58.47	1,087.48	1,067.75	19.73	55.115		
6,100.00	6,059.57	5,119.99	5,119.99	23.26	8.94	-29.18	92.97	-58.47	1,164.01	1,145.26	18.75	62.081		
6,200.00	6,159.57	5,119.99	5,119.99	23.56	8.94	-29.18	92.97	-58.47	1,243.88	1,226.01	17.87	69.601		
6,300.00	6,259.57	5,119.99	5,119.99	23.87	8.94	-29.18	92.97	-58.47	1,326.48	1,309.39	17.09	77.610		
6,400.00	6,359.57	5,119.99	5,119.99	24.17	8.94	-29.18	92.97	-58.47	1,411.33	1,394.93	16.40	86.042		
6,500.00	6,459.57	5,119.99	5,119.99	24.48	8.94	-29.18	92.97	-58.47	1,498.06	1,482.26	15.80	94.829		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Sullivan 1 - CPR - NO SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 8200-ISCWSA MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
8,100.00	7,610.00	7,594.00	7,594.00	28.56	8.52	-90.00	1,439.84	-525.08	1,475.63	1,440.26	35.38	41.710	
8,200.00	7,610.00	7,594.00	7,594.00	29.01	8.52	-90.00	1,439.84	-525.08	1,394.57	1,358.87	35.69	39.070	
8,300.00	7,610.00	7,594.00	7,594.00	29.54	8.52	-90.00	1,439.84	-525.08	1,316.11	1,280.01	36.10	36.456	
8,400.00	7,610.00	7,594.00	7,594.00	30.15	8.52	-90.00	1,439.84	-525.08	1,240.75	1,204.13	36.62	33.881	
8,500.00	7,610.00	7,594.00	7,594.00	30.83	8.52	-90.00	1,439.84	-525.08	1,169.10	1,131.82	37.27	31.368	
8,600.00	7,610.00	7,594.00	7,594.00	31.57	8.52	-90.00	1,439.84	-525.08	1,101.86	1,063.79	38.07	28.942	
8,700.00	7,610.00	7,594.00	7,594.00	32.37	8.52	-90.00	1,439.84	-525.08	1,039.92	1,000.88	39.03	26.641	
8,800.00	7,610.00	7,594.00	7,594.00	33.23	8.52	-90.00	1,439.84	-525.08	984.25	944.09	40.16	24.506	
8,900.00	7,610.00	7,594.00	7,594.00	34.14	8.52	-90.00	1,439.84	-525.08	935.99	894.55	41.44	22.587	
9,000.00	7,610.00	7,594.00	7,594.00	35.10	8.52	-90.00	1,439.84	-525.08	896.32	853.50	42.82	20.934	
9,100.00	7,610.00	7,594.00	7,594.00	36.10	8.52	-90.00	1,439.84	-525.08	866.44	822.21	44.23	19.591	
9,200.00	7,610.00	7,594.00	7,594.00	37.15	8.52	-90.00	1,439.84	-525.08	847.37	801.80	45.57	18.596	
9,300.00	7,610.00	7,594.00	7,594.00	38.22	8.52	-90.00	1,439.84	-525.08	839.86	793.11	46.74	17.968	
9,313.39	7,610.00	7,594.00	7,594.00	38.37	8.52	-90.00	1,439.84	-525.08	839.75	792.87	46.88	17.912 CC, ES	
9,400.00	7,610.00	7,594.00	7,594.00	39.33	8.52	-90.00	1,439.84	-525.08	844.20	796.54	47.66	17.712 SF	
9,500.00	7,610.00	7,594.00	7,594.00	40.48	8.52	-90.00	1,439.84	-525.08	860.23	811.95	48.28	17.818	
9,600.00	7,610.00	7,594.00	7,594.00	41.65	8.52	-90.00	1,439.84	-525.08	887.31	838.72	48.59	18.259	
9,700.00	7,610.00	7,594.00	7,594.00	42.84	8.52	-90.00	1,439.84	-525.08	924.47	875.83	48.64	19.006	
9,800.00	7,610.00	7,594.00	7,594.00	44.06	8.52	-90.00	1,439.84	-525.08	970.55	922.07	48.47	20.022	
9,900.00	7,610.00	7,594.00	7,594.00	45.31	8.52	-90.00	1,439.84	-525.08	1,024.35	976.19	48.16	21.271	
10,000.00	7,610.00	7,594.00	7,594.00	46.57	8.52	-90.00	1,439.84	-525.08	1,084.72	1,036.97	47.75	22.719	
10,100.00	7,610.00	7,594.00	7,594.00	47.85	8.52	-90.00	1,439.84	-525.08	1,150.62	1,103.34	47.28	24.335	
10,200.00	7,610.00	7,594.00	7,594.00	49.15	8.52	-90.00	1,439.84	-525.08	1,221.17	1,174.37	46.80	26.094	
10,300.00	7,610.00	7,594.00	7,594.00	50.46	8.52	-90.00	1,439.84	-525.08	1,295.60	1,249.28	46.32	27.971	
10,400.00	7,610.00	7,594.00	7,594.00	51.79	8.52	-90.00	1,439.84	-525.08	1,373.28	1,327.42	45.86	29.948	
10,500.00	7,610.00	7,594.00	7,594.00	53.13	8.52	-90.00	1,439.84	-525.08	1,453.69	1,408.27	45.42	32.008	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Sullivan 44-26 - CPR WELL - GYRO												Offset Site Error:	0.00 usft
Survey Program: 100-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-107.49	-14.78	-46.91	55.63				
100.00	100.00	74.04	74.04	0.14	0.13	-107.79	-15.02	-46.79	49.14	48.88	0.27	183.403	
153.48	153.48	127.47	127.47	0.33	0.22	-108.33	-15.45	-46.61	49.10	48.55	0.55	88.765 CC	
200.00	200.00	173.89	173.89	0.50	0.30	-108.82	-15.85	-46.52	49.15	48.35	0.80	61.331	
300.00	300.00	273.92	273.92	0.85	0.48	-109.70	-16.65	-46.50	49.39	48.06	1.33	37.012	
400.00	400.00	373.95	373.94	1.21	0.65	-110.15	-17.05	-46.47	49.50	47.63	1.87	26.507	
500.00	500.00	473.98	473.97	1.57	0.83	-110.42	-17.30	-46.47	49.58	47.18	2.40	20.654	
600.00	600.00	574.01	574.00	1.93	1.00	-111.19	-17.92	-46.24	49.59	46.66	2.93	16.901	
606.77	606.77	580.78	580.77	1.95	1.02	97.42	-17.97	-46.22	49.59	46.62	2.97	16.702	
700.00	699.98	674.03	674.02	2.27	1.18	98.60	-18.59	-45.92	49.77	46.32	3.45	14.421 ES	
800.00	799.84	773.66	773.64	2.61	1.35	103.34	-19.51	-45.70	50.84	46.88	3.96	12.838	
900.00	899.45	873.09	873.06	2.95	1.53	110.99	-20.83	-45.99	53.98	49.50	4.48	12.054	
987.60	986.42	959.98	959.95	3.26	1.68	120.07	-21.22	-46.64	59.22	54.28	4.94	11.989	
1,000.00	998.71	972.26	972.23	3.31	1.70	121.42	-21.24	-46.74	60.18	55.18	5.01	12.020	
1,100.00	1,097.79	1,071.31	1,071.28	3.68	1.87	130.99	-21.18	-47.50	68.99	63.45	5.54	12.460	
1,200.00	1,196.88	1,170.48	1,170.44	4.06	2.05	138.26	-21.17	-48.16	79.18	73.11	6.07	13.048	
1,300.00	1,295.96	1,269.54	1,269.50	4.44	2.22	143.76	-21.29	-48.74	90.20	83.60	6.60	13.668	
1,400.00	1,395.05	1,368.50	1,368.45	4.83	2.39	147.96	-21.49	-49.44	101.94	94.80	7.13	14.295	
1,500.00	1,494.14	1,467.47	1,467.43	5.23	2.56	151.32	-21.57	-50.19	114.21	106.55	7.66	14.904	
1,600.00	1,593.22	1,566.62	1,566.57	5.62	2.74	153.97	-21.77	-51.01	126.79	118.59	8.20	15.469	
1,700.00	1,692.31	1,665.54	1,665.49	6.02	2.91	156.11	-22.03	-51.83	139.54	130.81	8.73	15.985	
1,800.00	1,791.39	1,764.28	1,764.22	6.42	3.08	157.83	-22.29	-52.88	152.64	143.38	9.26	16.478	
1,900.00	1,890.48	1,862.59	1,862.52	6.83	3.26	159.24	-22.44	-54.20	166.13	156.33	9.80	16.960	
2,000.00	1,989.57	1,960.69	1,960.61	7.23	3.43	160.44	-22.25	-55.89	180.22	169.89	10.33	17.452	
2,100.00	2,088.65	2,058.94	2,058.83	7.63	3.60	161.48	-21.74	-57.84	194.78	183.92	10.86	17.938	
2,200.00	2,187.74	2,157.49	2,157.36	8.04	3.77	162.52	-20.71	-59.65	209.65	198.26	11.39	18.404	
2,300.00	2,286.82	2,256.53	2,256.38	8.45	3.95	163.49	-19.45	-61.27	224.60	212.67	11.93	18.831	
2,400.00	2,385.91	2,355.76	2,355.60	8.85	4.12	164.39	-18.20	-62.66	239.43	226.97	12.46	19.209	
2,500.00	2,485.00	2,454.94	2,454.76	9.26	4.30	165.06	-17.43	-64.32	254.16	241.16	13.00	19.546	
2,600.00	2,584.08	2,553.90	2,553.70	9.67	4.47	165.57	-17.01	-66.24	268.83	255.29	13.54	19.852	
2,700.00	2,683.17	2,652.64	2,652.41	10.08	4.65	166.00	-16.63	-68.22	283.54	269.47	14.08	20.139	
2,800.00	2,782.26	2,751.32	2,751.08	10.49	4.82	166.40	-16.19	-70.23	298.34	283.72	14.62	20.410	
2,900.00	2,881.34	2,850.34	2,850.08	10.90	5.00	166.73	-15.81	-72.37	313.18	298.02	15.16	20.661	
3,000.00	2,980.43	2,949.25	2,948.96	11.30	5.17	167.00	-15.63	-74.60	327.94	312.25	15.70	20.891	
3,100.00	3,079.51	3,047.48	3,047.16	11.71	5.35	167.27	-15.26	-76.77	342.83	326.59	16.23	21.118	
3,200.00	3,178.60	3,146.65	3,146.31	12.12	5.52	167.55	-14.58	-78.92	357.94	341.17	16.77	21.344	
3,300.00	3,277.69	3,244.24	3,243.86	12.54	5.70	167.82	-13.80	-81.15	373.18	355.87	17.31	21.562	
3,400.00	3,376.77	3,342.61	3,342.22	12.95	5.87	168.15	-12.58	-82.93	388.47	370.63	17.84	21.773	
3,500.00	3,475.86	3,440.92	3,440.50	13.36	6.04	168.59	-10.67	-84.16	403.96	385.58	18.37	21.984	
3,600.00	3,574.94	3,539.86	3,539.42	13.77	6.22	169.01	-8.65	-85.27	419.46	400.54	18.91	22.180	
3,700.00	3,674.03	3,638.60	3,638.13	14.18	6.39	169.36	-6.89	-86.65	434.96	415.51	19.45	22.365	
3,800.00	3,773.12	3,737.29	3,736.79	14.59	6.57	169.66	-5.20	-88.14	450.48	430.50	19.99	22.541	
3,900.00	3,872.20	3,836.79	3,836.27	15.00	6.74	169.95	-3.51	-89.64	466.00	445.48	20.53	22.702	
4,000.00	3,971.29	3,936.88	3,936.34	15.41	6.92	170.24	-1.96	-90.80	481.21	460.14	21.07	22.837	
4,100.00	4,070.37	4,035.27	4,034.70	15.82	7.09	170.43	-0.87	-92.42	496.38	474.77	21.61	22.972	
4,200.00	4,169.46	4,133.34	4,132.76	16.24	7.27	170.66	0.54	-93.84	511.70	489.55	22.14	23.110	
4,300.00	4,268.55	4,231.50	4,230.89	16.65	7.44	170.87	2.09	-95.27	527.13	504.45	22.68	23.246	
4,400.00	4,367.63	4,329.98	4,329.35	17.06	7.62	171.08	3.79	-96.74	542.71	519.50	23.21	23.381	
4,500.00	4,466.72	4,428.41	4,427.76	17.47	7.79	171.32	5.61	-97.90	558.21	534.46	23.75	23.506	
4,600.00	4,565.81	4,523.82	4,523.13	17.88	7.96	171.54	7.83	-99.21	574.20	549.94	24.26	23.664	
4,700.00	4,664.89	4,622.13	4,621.40	18.30	8.14	171.77	10.32	-100.67	590.43	565.63	24.80	23.809	
4,800.00	4,763.98	4,719.31	4,718.53	18.71	8.31	171.99	12.97	-102.10	606.83	581.50	25.33	23.960	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Sullivan 44-26 - CPR WELL - GYRO												Offset Site Error:	0.00 usft
Survey Program: 100-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.00	4,863.06	4,815.52	4,814.69	19.12	8.48	172.21	15.90	-103.59	623.52	597.67	25.85	24.123	
5,000.00	4,962.15	4,909.97	4,909.06	19.53	8.65	172.45	19.43	-105.05	640.77	614.42	26.36	24.311	
5,100.00	5,061.24	5,007.15	5,006.13	19.95	8.83	172.69	23.44	-106.72	658.45	631.56	26.88	24.492	
5,152.83	5,113.58	5,061.01	5,059.95	20.16	8.93	172.82	25.64	-107.60	667.75	640.57	27.18	24.569	
5,200.00	5,160.37	5,109.02	5,107.92	20.36	9.02	172.96	27.55	-108.25	675.56	648.12	27.44	24.620	
5,300.00	5,259.85	5,209.88	5,208.69	20.75	9.20	173.19	31.30	-109.60	689.39	661.40	27.98	24.636	
5,400.00	5,359.63	5,314.15	5,312.91	21.11	9.39	173.31	34.28	-111.28	699.23	670.69	28.54	24.500	
5,500.00	5,459.57	5,414.12	5,412.84	21.46	9.57	173.38	36.87	-112.72	705.31	676.24	29.07	24.266	
5,540.43	5,500.00	5,454.51	5,453.20	21.58	9.64	-35.24	38.03	-113.14	706.78	677.51	29.27	24.147	
5,600.00	5,559.57	5,514.47	5,513.14	21.76	9.74	-35.18	39.87	-113.58	708.53	678.96	29.57	23.964	
5,700.00	5,659.57	5,617.01	5,615.64	22.05	9.93	-35.10	42.66	-114.38	711.20	681.12	30.08	23.647	
5,800.00	5,759.57	5,716.14	5,714.73	22.35	10.11	-35.09	44.82	-115.69	713.74	683.17	30.57	23.350	
5,900.00	5,859.57	5,813.09	5,811.64	22.65	10.28	-35.08	47.21	-117.19	716.65	685.60	31.05	23.083	
6,000.00	5,959.57	5,917.87	5,916.38	22.95	10.47	-35.04	49.87	-118.47	719.43	687.86	31.57	22.787	
6,100.00	6,059.57	6,027.02	6,025.51	23.26	10.66	-34.96	51.98	-118.70	721.13	689.01	32.12	22.451	
6,200.00	6,159.57	6,132.69	6,131.16	23.56	10.84	-34.82	53.58	-117.71	721.84	689.19	32.65	22.111	
6,300.00	6,259.57	6,233.92	6,232.38	23.87	11.01	-34.73	54.29	-116.84	721.92	688.77	33.15	21.775	
6,400.00	6,359.57	6,331.69	6,330.15	24.17	11.18	-34.68	55.03	-116.59	722.39	688.75	33.65	21.471	
6,500.00	6,459.57	6,435.36	6,433.82	24.48	11.36	-34.66	55.29	-116.49	722.54	688.38	34.17	21.148	
6,600.00	6,559.57	6,536.01	6,534.47	24.79	11.54	-34.66	55.28	-116.35	722.46	687.78	34.67	20.836	
6,700.00	6,659.57	6,636.43	6,634.89	25.10	11.71	-34.63	55.31	-116.03	722.30	687.12	35.18	20.531	
6,800.00	6,759.57	6,736.25	6,734.71	25.42	11.88	-34.61	55.29	-115.72	722.10	686.42	35.69	20.235	
6,900.00	6,859.57	6,835.64	6,834.10	25.73	12.05	-34.59	55.38	-115.43	722.01	685.82	36.19	19.951	
6,934.23	6,893.80	6,870.04	6,868.50	25.84	12.11	-34.58	55.44	-115.29	721.98	685.62	36.36	19.854	
6,950.00	6,909.57	6,885.88	6,884.34	25.89	12.14	-35.17	55.47	-115.21	721.83	685.38	36.44	19.806	
7,000.00	6,959.48	6,935.59	6,934.05	26.04	12.22	-35.39	55.60	-114.94	719.45	682.76	36.69	19.607	
7,050.00	7,009.07	6,984.83	6,983.28	26.18	12.31	-35.90	55.74	-114.69	714.27	677.34	36.94	19.338	
7,100.00	7,058.10	7,033.08	7,031.54	26.31	12.39	-36.72	55.89	-114.48	706.36	669.19	37.17	19.003	
7,150.00	7,106.32	7,080.37	7,078.82	26.44	12.48	-37.85	56.05	-114.39	695.82	658.42	37.40	18.606	
7,200.00	7,153.51	7,127.41	7,125.87	26.55	12.56	-39.36	56.19	-114.39	682.77	645.15	37.62	18.150	
7,250.00	7,199.44	7,173.71	7,172.16	26.66	12.64	-41.25	56.27	-114.44	667.30	629.46	37.84	17.637	
7,300.00	7,243.88	7,218.62	7,217.08	26.76	12.71	-43.57	56.30	-114.53	649.60	611.55	38.05	17.074	
7,350.00	7,286.61	7,262.07	7,260.53	26.85	12.79	-46.33	56.34	-114.52	629.89	591.64	38.25	16.467	
7,400.00	7,327.43	7,303.48	7,301.93	26.94	12.86	-49.54	56.42	-114.41	608.46	570.01	38.45	15.824	
7,450.00	7,366.13	7,341.36	7,339.81	27.02	12.93	-53.14	56.53	-114.28	585.71	547.06	38.64	15.157	
7,500.00	7,402.54	7,377.12	7,375.57	27.10	12.99	-57.15	56.71	-114.17	562.08	523.24	38.84	14.473	
7,550.00	7,436.46	7,411.05	7,409.50	27.18	13.05	-61.57	56.92	-114.07	538.04	499.00	39.04	13.781	
7,600.00	7,467.74	7,443.34	7,441.79	27.26	13.10	-66.31	57.12	-113.94	514.09	474.83	39.27	13.093	
7,650.00	7,496.23	7,472.73	7,471.18	27.34	13.15	-71.14	57.29	-113.79	490.87	451.37	39.51	12.425	
7,700.00	7,521.78	7,499.08	7,497.53	27.43	13.20	-75.85	57.42	-113.62	469.16	429.39	39.77	11.797	
7,750.00	7,544.27	7,521.49	7,519.94	27.53	13.24	-80.13	57.53	-113.48	449.82	409.77	40.06	11.230	
7,800.00	7,563.59	7,540.76	7,539.20	27.64	13.27	-83.87	57.62	-113.37	433.80	393.44	40.37	10.747	
7,850.00	7,579.65	7,556.80	7,555.25	27.76	13.30	-86.92	57.69	-113.28	421.99	381.30	40.69	10.371	
7,900.00	7,592.37	7,569.56	7,568.00	27.89	13.32	-89.18	57.75	-113.22	415.20	374.19	41.01	10.125	
7,935.29	7,599.30	7,576.54	7,574.99	28.00	13.33	-90.24	57.78	-113.19	413.75	372.54	41.21	10.040	
7,950.00	7,601.69	7,578.96	7,577.41	28.04	13.34	-90.55	57.79	-113.18	414.01	372.72	41.29	10.027 SF	
8,000.00	7,607.55	7,584.96	7,583.41	28.20	13.35	-90.99	57.82	-113.16	418.70	377.18	41.52	10.085	
8,050.00	7,609.94	7,587.54	7,585.99	28.37	13.35	-90.49	57.83	-113.15	429.22	387.54	41.68	10.299	
8,059.23	7,610.00	7,587.64	7,586.09	28.41	13.35	-90.29	57.83	-113.15	431.77	390.07	41.70	10.355	
8,100.00	7,610.00	7,587.82	7,586.27	28.56	13.35	-90.32	57.83	-113.15	445.15	403.39	41.76	10.659	
8,200.00	7,610.00	7,588.27	7,586.72	29.01	13.35	-90.38	57.83	-113.15	490.95	449.15	41.79	11.747	
8,300.00	7,610.00	7,588.72	7,587.17	29.54	13.36	-90.44	57.84	-113.15	551.27	509.57	41.70	13.221	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Sullivan 44-26 - CPR WELL - GYRO												Offset Site Error:	0.00 usft
Survey Program: 100-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,400.00	7,610.00	7,589.17	7,587.62	30.15	13.36	-90.50	57.84	-113.14	621.90	580.35	41.55	14.966	
8,500.00	7,610.00	7,589.62	7,588.07	30.83	13.36	-90.56	57.84	-113.14	699.73	658.32	41.41	16.899	
8,600.00	7,610.00	7,590.07	7,588.52	31.57	13.36	-90.63	57.84	-113.14	782.62	741.34	41.27	18.962	
8,700.00	7,610.00	7,590.52	7,588.97	32.37	13.36	-90.69	57.85	-113.14	869.11	827.95	41.16	21.117	
8,800.00	7,610.00	7,590.97	7,589.42	33.23	13.36	-90.75	57.85	-113.14	958.24	917.18	41.06	23.338	
8,900.00	7,610.00	7,591.42	7,589.86	34.14	13.36	-90.81	57.85	-113.14	1,049.32	1,008.35	40.98	25.607	
9,000.00	7,610.00	7,591.86	7,590.31	35.10	13.36	-90.88	57.85	-113.13	1,141.90	1,100.99	40.91	27.911	
9,100.00	7,610.00	7,592.31	7,590.76	36.10	13.36	-90.94	57.85	-113.13	1,235.64	1,194.78	40.86	30.243	
9,200.00	7,610.00	7,592.76	7,591.21	37.15	13.36	-91.00	57.86	-113.13	1,330.29	1,289.48	40.81	32.594	
9,300.00	7,610.00	7,593.21	7,591.65	38.22	13.36	-91.06	57.86	-113.13	1,425.67	1,384.89	40.78	34.962	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4A-26H-P268 - OH - PLAN #4												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.09	-0.15	-100.14	100.14				
100.00	100.00	100.00	100.00	0.14	0.14	-90.09	-0.15	-100.14	100.14	99.87	0.28	362.807	
200.00	200.00	200.00	200.00	0.50	0.50	-90.09	-0.15	-100.14	100.14	99.15	0.99	100.853 CC, ES	
300.00	300.00	296.72	296.70	0.85	0.84	-90.35	-0.62	-101.71	101.76	100.04	1.73	58.908	
400.00	400.00	393.22	393.07	1.21	1.18	-91.09	-2.02	-106.38	106.63	104.14	2.49	42.882	
500.00	500.00	489.28	488.79	1.57	1.53	-92.17	-4.33	-114.13	114.76	111.51	3.25	35.295	
600.00	600.00	584.70	583.55	1.93	1.89	-93.45	-7.53	-124.86	126.16	122.15	4.01	31.435	
700.00	699.98	679.19	676.96	2.27	2.27	114.21	-11.59	-138.46	141.54	136.79	4.75	29.776	
800.00	799.84	772.36	768.56	2.61	2.66	114.14	-16.45	-154.75	161.49	156.02	5.48	29.495 SF	
900.00	899.45	863.88	857.95	2.95	3.08	114.66	-22.05	-173.53	185.93	179.75	6.18	30.065	
987.60	986.42	942.44	934.16	3.26	3.46	115.38	-27.51	-191.82	211.00	204.19	6.81	30.988	
1,000.00	998.71	953.43	944.77	3.31	3.51	115.55	-28.32	-194.54	214.81	207.91	6.90	31.138	
1,100.00	1,097.79	1,041.12	1,029.09	3.68	3.97	116.68	-35.21	-217.62	247.18	239.59	7.60	32.543	
1,200.00	1,196.88	1,133.01	1,116.86	4.06	4.48	117.48	-42.99	-243.69	281.63	273.36	8.28	34.018	
1,300.00	1,295.96	1,226.79	1,206.41	4.44	5.01	118.10	-50.95	-270.38	316.22	307.24	8.98	35.221	
1,400.00	1,395.05	1,320.57	1,295.95	4.83	5.55	118.61	-58.91	-297.07	350.83	341.14	9.69	36.192	
1,500.00	1,494.14	1,414.35	1,385.50	5.23	6.10	119.02	-66.88	-323.77	385.46	375.04	10.42	36.984	
1,600.00	1,593.22	1,508.13	1,475.05	5.62	6.65	119.37	-74.84	-350.46	420.11	408.94	11.16	37.639	
1,700.00	1,692.31	1,601.91	1,564.59	6.02	7.20	119.66	-82.80	-377.15	454.76	442.85	11.91	38.186	
1,800.00	1,791.39	1,695.69	1,654.14	6.42	7.76	119.91	-90.77	-403.84	489.43	476.76	12.66	38.647	
1,900.00	1,890.48	1,789.47	1,743.69	6.83	8.32	120.13	-98.73	-430.53	524.10	510.68	13.42	39.040	
2,000.00	1,989.57	1,883.25	1,833.24	7.23	8.89	120.32	-106.70	-457.22	558.78	544.59	14.19	39.378	
2,100.00	2,088.65	1,977.02	1,922.78	7.63	9.45	120.49	-114.66	-483.92	593.46	578.50	14.96	39.670	
2,200.00	2,187.74	2,070.80	2,012.33	8.04	10.02	120.64	-122.62	-510.61	628.15	612.42	15.73	39.925	
2,300.00	2,286.82	2,164.58	2,101.88	8.45	10.58	120.78	-130.59	-537.30	662.84	646.33	16.51	40.149	
2,400.00	2,385.91	2,258.36	2,191.42	8.85	11.15	120.90	-138.55	-563.99	697.54	680.25	17.29	40.347	
2,500.00	2,485.00	2,352.14	2,280.97	9.26	11.72	121.01	-146.52	-590.68	732.23	714.16	18.07	40.523	
2,600.00	2,584.08	2,445.92	2,370.52	9.67	12.29	121.11	-154.48	-617.37	766.93	748.08	18.85	40.680	
2,700.00	2,683.17	2,539.70	2,460.06	10.08	12.86	121.20	-162.44	-644.06	801.63	781.99	19.64	40.821	
2,800.00	2,782.26	2,633.48	2,549.61	10.49	13.43	121.28	-170.41	-670.76	836.33	815.91	20.42	40.948	
2,900.00	2,881.34	2,727.26	2,639.16	10.90	14.00	121.36	-178.37	-697.45	871.04	849.82	21.21	41.063	
3,000.00	2,980.43	2,821.04	2,728.70	11.30	14.57	121.43	-186.34	-724.14	905.74	883.74	22.00	41.168	
3,100.00	3,079.51	2,914.82	2,818.25	11.71	15.14	121.49	-194.30	-750.83	940.45	917.66	22.79	41.263	
3,200.00	3,178.60	3,008.59	2,907.80	12.12	15.71	121.56	-202.26	-777.52	975.15	951.57	23.58	41.350	
3,300.00	3,277.69	3,102.37	2,997.35	12.54	16.28	121.61	-210.23	-804.21	1,009.86	985.49	24.37	41.431	
3,400.00	3,376.77	3,196.15	3,086.89	12.95	16.86	121.67	-218.19	-830.91	1,044.57	1,019.40	25.17	41.504	
3,500.00	3,475.86	3,289.93	3,176.44	13.36	17.43	121.72	-226.16	-857.60	1,079.28	1,053.32	25.96	41.573	
3,600.00	3,574.94	3,383.71	3,265.99	13.77	18.00	121.76	-234.12	-884.29	1,113.99	1,087.23	26.76	41.636	
3,700.00	3,674.03	3,477.49	3,355.53	14.18	18.57	121.81	-242.08	-910.98	1,148.70	1,121.15	27.55	41.694	
3,800.00	3,773.12	3,571.27	3,445.08	14.59	19.15	121.85	-250.05	-937.67	1,183.41	1,155.07	28.35	41.748	
3,900.00	3,872.20	3,665.05	3,534.63	15.00	19.72	121.89	-258.01	-964.36	1,218.12	1,188.98	29.14	41.799	
4,000.00	3,971.29	3,758.83	3,624.17	15.41	20.29	121.92	-265.98	-991.05	1,252.84	1,222.90	29.94	41.846	
4,100.00	4,070.37	3,852.61	3,713.72	15.82	20.87	121.96	-273.94	-1,017.75	1,287.55	1,256.81	30.74	41.891	
4,200.00	4,169.46	3,946.39	3,803.27	16.24	21.44	121.99	-281.90	-1,044.44	1,322.26	1,290.73	31.53	41.932	
4,300.00	4,268.55	4,040.16	3,892.81	16.65	22.01	122.02	-289.87	-1,071.13	1,356.97	1,324.64	32.33	41.971	
4,400.00	4,367.63	4,133.94	3,982.36	17.06	22.59	122.05	-297.83	-1,097.82	1,391.69	1,358.56	33.13	42.008	
4,500.00	4,466.72	4,227.72	4,071.91	17.47	23.16	122.08	-305.80	-1,124.51	1,426.40	1,392.47	33.93	42.042	
4,600.00	4,565.81	4,321.50	4,161.46	17.88	23.73	122.11	-313.76	-1,151.20	1,461.12	1,426.39	34.73	42.074	
4,700.00	4,664.89	4,415.28	4,251.00	18.30	24.31	122.13	-321.72	-1,177.90	1,495.83	1,460.31	35.53	42.105	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4B-26H-P268 - OH - PLAN #4												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.06	-0.10	-90.07	90.07				
100.00	100.00	100.00	100.00	0.14	0.14	-90.06	-0.10	-90.07	90.07	89.80	0.28	326.325	
200.00	200.00	200.00	200.00	0.50	0.50	-90.06	-0.10	-90.07	90.07	89.08	0.99	90.711	
300.00	300.00	300.00	300.00	0.85	0.85	-90.06	-0.10	-90.07	90.07	88.36	1.71	52.677 CC, ES	
400.00	400.00	397.00	396.98	1.21	1.19	-90.30	-0.48	-91.67	91.72	89.29	2.43	37.699	
500.00	500.00	493.77	493.62	1.57	1.53	-90.97	-1.63	-96.44	96.67	93.49	3.18	30.433	
600.00	600.00	590.10	589.61	1.93	1.88	-91.93	-3.52	-104.34	104.92	100.99	3.93	26.713	
700.00	699.98	685.70	684.54	2.27	2.24	116.12	-6.15	-115.28	117.23	112.57	4.66	25.144	
800.00	799.84	780.16	777.91	2.61	2.61	116.55	-9.47	-129.11	134.30	128.92	5.38	24.955 SF	
900.00	899.45	873.09	869.27	2.95	3.00	117.59	-13.44	-145.63	156.09	150.00	6.10	25.592	
987.60	986.42	952.97	947.33	3.26	3.35	118.73	-17.40	-162.12	179.08	172.36	6.72	26.665	
1,000.00	998.71	964.15	958.21	3.31	3.41	118.95	-17.99	-164.60	182.61	175.81	6.81	26.831	
1,100.00	1,097.79	1,053.43	1,044.78	3.68	3.83	120.36	-23.10	-185.86	212.81	205.30	7.51	28.351	
1,200.00	1,196.88	1,141.04	1,129.01	4.06	4.28	121.21	-28.71	-209.26	245.89	237.70	8.20	29.997	
1,300.00	1,295.96	1,233.55	1,217.44	4.44	4.78	121.79	-35.06	-235.68	280.79	271.90	8.89	31.599	
1,400.00	1,395.05	1,327.21	1,306.96	4.83	5.30	122.23	-41.49	-262.46	315.74	306.15	9.59	32.917	
1,500.00	1,494.14	1,420.88	1,396.49	5.23	5.83	122.59	-47.92	-289.25	350.71	340.40	10.31	34.011	
1,600.00	1,593.22	1,514.55	1,486.01	5.62	6.37	122.89	-54.35	-316.04	385.68	374.64	11.04	34.927	
1,700.00	1,692.31	1,608.22	1,575.54	6.02	6.91	123.14	-60.78	-342.82	420.66	408.88	11.78	35.703	
1,800.00	1,791.39	1,701.88	1,665.06	6.42	7.46	123.34	-67.22	-369.61	455.65	443.12	12.53	36.367	
1,900.00	1,890.48	1,795.55	1,754.59	6.83	8.01	123.52	-73.65	-396.40	490.65	477.36	13.28	36.939	
2,000.00	1,989.57	1,889.22	1,844.11	7.23	8.56	123.68	-80.08	-423.18	525.64	511.60	14.04	37.436	
2,100.00	2,088.65	1,982.89	1,933.64	7.63	9.12	123.81	-86.51	-449.97	560.64	545.84	14.80	37.871	
2,200.00	2,187.74	2,076.55	2,023.16	8.04	9.68	123.93	-92.94	-476.75	595.64	580.07	15.57	38.254	
2,300.00	2,286.82	2,170.22	2,112.69	8.45	10.24	124.04	-99.37	-503.54	630.65	614.31	16.34	38.594	
2,400.00	2,385.91	2,263.89	2,202.21	8.85	10.80	124.13	-105.81	-530.33	665.65	648.54	17.11	38.897	
2,500.00	2,485.00	2,357.56	2,291.74	9.26	11.36	124.22	-112.24	-557.11	700.66	682.77	17.89	39.169	
2,600.00	2,584.08	2,451.22	2,381.26	9.67	11.92	124.30	-118.67	-583.90	735.67	717.00	18.66	39.415	
2,700.00	2,683.17	2,544.89	2,470.79	10.08	12.48	124.37	-125.10	-610.68	770.68	751.23	19.44	39.636	
2,800.00	2,782.26	2,638.56	2,560.31	10.49	13.05	124.43	-131.53	-637.47	805.69	785.46	20.22	39.838	
2,900.00	2,881.34	2,732.23	2,649.84	10.90	13.61	124.49	-137.96	-664.26	840.70	819.69	21.01	40.022	
3,000.00	2,980.43	2,825.89	2,739.36	11.30	14.18	124.54	-144.39	-691.04	875.71	853.92	21.79	40.190	
3,100.00	3,079.51	2,919.56	2,828.89	11.71	14.75	124.59	-150.83	-717.83	910.72	888.15	22.57	40.345	
3,200.00	3,178.60	3,013.23	2,918.41	12.12	15.31	124.64	-157.26	-744.62	945.74	922.38	23.36	40.487	
3,300.00	3,277.69	3,106.90	3,007.94	12.54	15.88	124.68	-163.69	-771.40	980.75	956.61	24.15	40.618	
3,400.00	3,376.77	3,200.56	3,097.46	12.95	16.45	124.72	-170.12	-798.19	1,015.76	990.83	24.93	40.740	
3,500.00	3,475.86	3,294.23	3,186.99	13.36	17.01	124.76	-176.55	-824.97	1,050.78	1,025.06	25.72	40.854	
3,600.00	3,574.94	3,387.90	3,276.51	13.77	17.58	124.79	-182.98	-851.76	1,085.79	1,059.28	26.51	40.959	
3,700.00	3,674.03	3,481.57	3,366.04	14.18	18.15	124.83	-189.42	-878.55	1,120.81	1,093.51	27.30	41.057	
3,800.00	3,773.12	3,575.23	3,455.56	14.59	18.72	124.86	-195.85	-905.33	1,155.82	1,127.74	28.09	41.149	
3,900.00	3,872.20	3,668.90	3,545.09	15.00	19.29	124.89	-202.28	-932.12	1,190.84	1,161.96	28.88	41.235	
4,000.00	3,971.29	3,762.57	3,634.61	15.41	19.85	124.91	-208.71	-958.90	1,225.86	1,196.19	29.67	41.316	
4,100.00	4,070.37	3,856.24	3,724.14	15.82	20.42	124.94	-215.14	-985.69	1,260.87	1,230.41	30.46	41.392	
4,200.00	4,169.46	3,949.90	3,813.66	16.24	20.99	124.96	-221.57	-1,012.48	1,295.89	1,264.63	31.25	41.464	
4,300.00	4,268.55	4,043.57	3,903.19	16.65	21.56	124.99	-228.00	-1,039.26	1,330.91	1,298.86	32.05	41.531	
4,400.00	4,367.63	4,137.24	3,992.71	17.06	22.13	125.01	-234.44	-1,066.05	1,365.92	1,333.08	32.84	41.595	
4,500.00	4,466.72	4,230.91	4,082.24	17.47	22.70	125.03	-240.87	-1,092.83	1,400.94	1,367.31	33.63	41.655	
4,600.00	4,565.81	4,324.57	4,171.76	17.88	23.27	125.05	-247.30	-1,119.62	1,435.96	1,401.53	34.43	41.712	
4,700.00	4,664.89	4,418.24	4,261.29	18.30	23.84	125.07	-253.73	-1,146.41	1,470.97	1,435.75	35.22	41.766	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4C-26H-P268 - OH - PLAN #3													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.04	-0.05	-80.00	80.00					
100.00	100.00	100.00	100.00	0.14	0.14	-90.04	-0.05	-80.00	80.00	79.73	0.28	289.842		
200.00	200.00	200.00	200.00	0.50	0.50	-90.04	-0.05	-80.00	80.00	79.01	0.99	80.570		
300.00	300.00	300.00	300.00	0.85	0.85	-90.04	-0.05	-80.00	80.00	78.29	1.71	46.788		
400.00	400.00	400.00	400.00	1.21	1.21	-90.04	-0.05	-80.00	80.00	77.58	2.43	32.966 CC, ES		
500.00	500.00	497.41	497.39	1.57	1.55	-90.44	-0.62	-81.56	81.60	78.46	3.14	25.975		
600.00	600.00	594.59	594.44	1.93	1.89	-91.55	-2.33	-86.20	86.41	82.54	3.87	22.331		
700.00	699.98	691.28	690.78	2.27	2.23	116.27	-5.15	-93.89	95.24	90.65	4.59	20.744		
800.00	799.84	787.11	785.93	2.61	2.59	116.57	-9.06	-104.52	108.79	103.49	5.30	20.511 SF		
900.00	899.45	881.72	879.45	2.95	2.96	117.57	-13.99	-117.93	127.04	121.02	6.02	21.107		
987.60	986.42	963.31	959.69	3.26	3.29	118.71	-19.09	-131.82	146.88	140.24	6.64	22.104		
1,000.00	998.71	974.76	970.91	3.31	3.34	118.92	-19.87	-133.94	149.97	143.23	6.73	22.269		
1,100.00	1,097.79	1,066.28	1,060.29	3.68	3.74	120.16	-26.65	-152.40	176.52	169.08	7.44	23.726		
1,200.00	1,196.88	1,156.64	1,147.87	4.06	4.16	120.74	-34.30	-173.25	205.93	197.79	8.14	25.288		
1,300.00	1,295.96	1,251.82	1,239.80	4.44	4.62	121.06	-42.81	-196.41	236.57	227.72	8.85	26.736		
1,400.00	1,395.05	1,347.00	1,331.73	4.83	5.10	121.32	-51.32	-219.58	267.22	257.65	9.57	27.924		
1,500.00	1,494.14	1,442.19	1,423.66	5.23	5.59	121.52	-59.83	-242.74	297.87	287.57	10.30	28.912		
1,600.00	1,593.22	1,537.37	1,515.58	5.62	6.08	121.68	-68.34	-265.91	328.52	317.48	11.05	29.743		
1,700.00	1,692.31	1,632.55	1,607.51	6.02	6.58	121.81	-76.85	-289.07	359.18	347.38	11.80	30.449		
1,800.00	1,791.39	1,727.73	1,699.44	6.42	7.08	121.93	-85.36	-312.24	389.84	377.28	12.55	31.055		
1,900.00	1,890.48	1,822.91	1,791.37	6.83	7.58	122.02	-93.87	-335.40	420.49	407.18	13.32	31.579		
2,000.00	1,989.57	1,918.10	1,883.29	7.23	8.09	122.11	-102.38	-358.57	451.15	437.07	14.08	32.037		
2,100.00	2,088.65	2,013.28	1,975.22	7.63	8.60	122.18	-110.89	-381.73	481.81	466.96	14.85	32.439		
2,200.00	2,187.74	2,108.46	2,067.15	8.04	9.11	122.24	-119.40	-404.90	512.48	496.85	15.63	32.794		
2,300.00	2,286.82	2,203.64	2,159.08	8.45	9.63	122.30	-127.90	-428.06	543.14	526.73	16.40	33.111		
2,400.00	2,385.91	2,298.83	2,251.00	8.85	10.14	122.35	-136.41	-451.22	573.80	556.62	17.18	33.394		
2,500.00	2,485.00	2,394.01	2,342.93	9.26	10.66	122.40	-144.92	-474.39	604.46	586.50	17.96	33.649		
2,600.00	2,584.08	2,489.19	2,434.86	9.67	11.18	122.44	-153.43	-497.55	635.12	616.38	18.75	33.880		
2,700.00	2,683.17	2,584.37	2,526.78	10.08	11.69	122.48	-161.94	-520.72	665.79	646.25	19.53	34.089		
2,800.00	2,782.26	2,679.55	2,618.71	10.49	12.21	122.51	-170.45	-543.88	696.45	676.13	20.32	34.279		
2,900.00	2,881.34	2,774.74	2,710.64	10.90	12.73	122.54	-178.96	-567.05	727.11	706.01	21.10	34.454		
3,000.00	2,980.43	2,869.92	2,802.57	11.30	13.25	122.57	-187.47	-590.21	757.77	735.88	21.89	34.614		
3,100.00	3,079.51	2,965.10	2,894.49	11.71	13.77	122.60	-195.98	-613.38	788.44	765.76	22.68	34.761		
3,200.00	3,178.60	3,060.28	2,986.42	12.12	14.29	122.62	-204.49	-636.54	819.10	795.63	23.47	34.898		
3,300.00	3,277.69	3,155.46	3,078.35	12.54	14.81	122.64	-213.00	-659.71	849.77	825.50	24.26	35.024		
3,400.00	3,376.77	3,250.65	3,170.28	12.95	15.34	122.67	-221.50	-682.87	880.43	855.38	25.05	35.141		
3,500.00	3,475.86	3,345.83	3,262.20	13.36	15.86	122.69	-230.01	-706.04	911.09	885.25	25.85	35.250		
3,600.00	3,574.94	3,441.01	3,354.13	13.77	16.38	122.70	-238.52	-729.20	941.76	915.12	26.64	35.352		
3,700.00	3,674.03	3,536.19	3,446.06	14.18	16.90	122.72	-247.03	-752.37	972.42	944.99	27.43	35.447		
3,800.00	3,773.12	3,631.37	3,537.98	14.59	17.42	122.74	-255.54	-775.53	1,003.09	974.86	28.23	35.536		
3,900.00	3,872.20	3,726.56	3,629.91	15.00	17.95	122.75	-264.05	-798.70	1,033.75	1,004.73	29.02	35.620		
4,000.00	3,971.29	3,821.74	3,721.84	15.41	18.47	122.77	-272.56	-821.86	1,064.41	1,034.60	29.82	35.699		
4,100.00	4,070.37	3,916.92	3,813.77	15.82	18.99	122.78	-281.07	-845.03	1,095.08	1,064.47	30.61	35.773		
4,200.00	4,169.46	4,012.10	3,905.69	16.24	19.52	122.79	-289.58	-868.19	1,125.74	1,094.34	31.41	35.843		
4,300.00	4,268.55	4,107.29	3,997.62	16.65	20.04	122.81	-298.09	-891.35	1,156.41	1,124.20	32.20	35.909		
4,400.00	4,367.63	4,202.47	4,089.55	17.06	20.56	122.82	-306.59	-914.52	1,187.07	1,154.07	33.00	35.971		
4,500.00	4,466.72	4,297.65	4,181.48	17.47	21.09	122.83	-315.10	-937.68	1,217.74	1,183.94	33.80	36.031		
4,600.00	4,565.81	4,392.83	4,273.40	17.88	21.61	122.84	-323.61	-960.85	1,248.40	1,213.81	34.59	36.087		
4,700.00	4,664.89	4,488.01	4,365.33	18.30	22.14	122.85	-332.12	-984.01	1,279.07	1,243.67	35.39	36.140		
4,800.00	4,763.98	4,583.20	4,457.26	18.71	22.66	122.86	-340.63	-1,007.18	1,309.73	1,273.54	36.19	36.191		
4,900.00	4,863.06	4,678.38	4,549.18	19.12	23.18	122.87	-349.14	-1,030.34	1,340.40	1,303.41	36.99	36.240		
5,000.00	4,962.15	4,773.56	4,641.11	19.53	23.71	122.88	-357.65	-1,053.51	1,371.06	1,333.28	37.79	36.286		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design											S26-T2N-R68W - SULLIVAN 4C-26H-P268 - OH - PLAN #3			Offset Site Error:		0.00 usft
Survey Program:											0-MWD+HDGM			Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	Axis					
5,100.00	5,061.24	4,868.74	4,733.04	19.95	24.23	122.88	-366.16	-1,076.67	1,401.73	1,363.14	38.58	36.330				
5,152.83	5,113.58	4,919.02	4,781.60	20.16	24.51	122.89	-370.65	-1,088.91	1,417.92	1,378.92	39.01	36.352				
5,200.00	5,160.37	4,963.99	4,825.03	20.36	24.76	123.13	-374.67	-1,099.85	1,432.19	1,392.81	39.38	36.369				
5,300.00	5,259.85	5,059.68	4,917.45	20.75	25.28	123.53	-383.23	-1,123.14	1,461.08	1,420.93	40.16	36.385				
5,400.00	5,359.63	5,155.79	5,010.27	21.11	25.81	123.77	-391.82	-1,146.53	1,488.14	1,447.23	40.91	36.374				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4D-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.01	-0.01	-70.21	70.21				
100.00	100.00	100.00	100.00	0.14	0.14	-90.01	-0.01	-70.21	70.21	69.94	0.28	254.372	
200.00	200.00	200.00	200.00	0.50	0.50	-90.01	-0.01	-70.21	70.21	69.22	0.99	70.710	
300.00	300.00	300.00	300.00	0.85	0.85	-90.01	-0.01	-70.21	70.21	68.50	1.71	41.062	
400.00	400.00	400.00	400.00	1.21	1.21	-90.01	-0.01	-70.21	70.21	67.79	2.43	28.932	
500.00	500.00	500.00	500.00	1.57	1.57	-90.01	-0.01	-70.21	70.21	67.07	3.14	22.334	CC, ES
600.00	600.00	597.74	597.72	1.93	1.91	-90.51	-0.64	-71.76	71.80	67.94	3.85	18.628	
700.00	699.98	695.22	695.07	2.27	2.25	117.79	-2.52	-76.37	77.37	72.81	4.56	16.978	
800.00	799.84	792.09	791.58	2.61	2.59	118.59	-5.61	-83.99	87.73	82.47	5.26	16.684	SF
900.00	899.45	887.96	886.77	2.95	2.94	120.05	-9.89	-94.51	102.89	96.93	5.97	17.245	
987.60	986.42	970.85	968.74	3.26	3.26	121.49	-14.55	-105.98	120.14	113.55	6.59	18.228	
1,000.00	998.71	982.49	980.21	3.31	3.30	121.73	-15.28	-107.76	122.86	116.18	6.68	18.391	
1,100.00	1,097.79	1,075.71	1,071.84	3.68	3.68	123.03	-21.72	-123.62	146.49	139.11	7.39	19.834	
1,200.00	1,196.88	1,167.61	1,161.58	4.06	4.07	123.48	-29.18	-141.95	172.94	164.85	8.09	21.366	
1,300.00	1,295.96	1,262.14	1,253.39	4.44	4.50	123.51	-37.66	-162.81	201.38	192.58	8.80	22.879	
1,400.00	1,395.05	1,357.98	1,346.45	4.83	4.95	123.52	-46.29	-184.05	229.92	220.40	9.53	24.139	
1,500.00	1,494.14	1,453.82	1,439.50	5.23	5.41	123.53	-54.93	-205.29	258.46	248.20	10.26	25.193	
1,600.00	1,593.22	1,549.66	1,532.56	5.62	5.87	123.53	-63.57	-226.54	287.00	276.00	11.00	26.084	
1,700.00	1,692.31	1,645.50	1,625.62	6.02	6.34	123.54	-72.20	-247.78	315.54	303.78	11.75	26.845	
1,800.00	1,791.39	1,741.34	1,718.67	6.42	6.82	123.54	-80.84	-269.03	344.08	331.57	12.51	27.502	
1,900.00	1,890.48	1,837.18	1,811.73	6.83	7.30	123.55	-89.48	-290.27	372.62	359.34	13.27	28.073	
2,000.00	1,989.57	1,933.02	1,904.79	7.23	7.78	123.55	-98.12	-311.52	401.16	387.12	14.04	28.573	
2,100.00	2,088.65	2,028.86	1,997.84	7.63	8.26	123.55	-106.75	-332.76	429.70	414.89	14.81	29.014	
2,200.00	2,187.74	2,124.70	2,090.90	8.04	8.75	123.56	-115.39	-354.00	458.24	442.65	15.58	29.406	
2,300.00	2,286.82	2,220.55	2,183.96	8.45	9.24	123.56	-124.03	-375.25	486.77	470.42	16.36	29.756	
2,400.00	2,385.91	2,316.39	2,277.01	8.85	9.73	123.56	-132.66	-396.49	515.31	498.18	17.14	30.070	
2,500.00	2,485.00	2,412.23	2,370.07	9.26	10.22	123.56	-141.30	-417.74	543.85	525.94	17.92	30.353	
2,600.00	2,584.08	2,508.07	2,463.13	9.67	10.71	123.56	-149.94	-438.98	572.39	553.69	18.70	30.611	
2,700.00	2,683.17	2,603.91	2,556.19	10.08	11.20	123.56	-158.58	-460.22	600.93	581.45	19.48	30.845	
2,800.00	2,782.26	2,699.75	2,649.24	10.49	11.70	123.57	-167.21	-481.47	629.47	609.20	20.27	31.059	
2,900.00	2,881.34	2,795.59	2,742.30	10.90	12.19	123.57	-175.85	-502.71	658.01	636.96	21.05	31.255	
3,000.00	2,980.43	2,891.43	2,835.36	11.30	12.69	123.57	-184.49	-523.96	686.55	664.71	21.84	31.435	
3,100.00	3,079.51	2,987.27	2,928.41	11.71	13.18	123.57	-193.12	-545.20	715.09	692.46	22.63	31.602	
3,200.00	3,178.60	3,083.11	3,021.47	12.12	13.68	123.57	-201.76	-566.44	743.63	720.21	23.42	31.756	
3,300.00	3,277.69	3,178.96	3,114.53	12.54	14.17	123.57	-210.40	-587.69	772.17	747.96	24.21	31.899	
3,400.00	3,376.77	3,274.80	3,207.58	12.95	14.67	123.57	-219.04	-608.93	800.71	775.71	25.00	32.032	
3,500.00	3,475.86	3,370.64	3,300.64	13.36	15.17	123.57	-227.67	-630.18	829.25	803.46	25.79	32.157	
3,600.00	3,574.94	3,466.48	3,393.70	13.77	15.67	123.57	-236.31	-651.42	857.79	831.21	26.58	32.273	
3,700.00	3,674.03	3,562.32	3,486.75	14.18	16.16	123.57	-244.95	-672.66	886.33	858.96	27.37	32.382	
3,800.00	3,773.12	3,658.16	3,579.81	14.59	16.66	123.57	-253.58	-693.91	914.87	886.70	28.16	32.484	
3,900.00	3,872.20	3,754.00	3,672.87	15.00	17.16	123.58	-262.22	-715.15	943.41	914.45	28.96	32.580	
4,000.00	3,971.29	3,849.84	3,765.93	15.41	17.66	123.58	-270.86	-736.40	971.94	942.19	29.75	32.670	
4,100.00	4,070.37	3,945.68	3,858.98	15.82	18.16	123.58	-279.49	-757.64	1,000.48	969.94	30.54	32.755	
4,200.00	4,169.46	4,041.53	3,952.04	16.24	18.66	123.58	-288.13	-778.89	1,029.02	997.69	31.34	32.836	
4,300.00	4,268.55	4,137.37	4,045.10	16.65	19.16	123.58	-296.77	-800.13	1,057.56	1,025.43	32.13	32.912	
4,400.00	4,367.63	4,233.21	4,138.15	17.06	19.66	123.58	-305.41	-821.37	1,086.10	1,053.17	32.93	32.985	
4,500.00	4,466.72	4,329.05	4,231.21	17.47	20.16	123.58	-314.04	-842.62	1,114.64	1,080.92	33.72	33.053	
4,600.00	4,565.81	4,424.89	4,324.27	17.88	20.66	123.58	-322.68	-863.86	1,143.18	1,108.66	34.52	33.118	
4,700.00	4,664.89	4,520.73	4,417.32	18.30	21.16	123.58	-331.32	-885.11	1,171.72	1,136.41	35.31	33.180	
4,800.00	4,763.98	4,616.57	4,510.38	18.71	21.66	123.58	-339.95	-906.35	1,200.26	1,164.15	36.11	33.239	
4,900.00	4,863.06	4,712.41	4,603.44	19.12	22.16	123.58	-348.59	-927.59	1,228.80	1,191.89	36.91	33.296	
5,000.00	4,962.15	4,808.25	4,696.49	19.53	22.66	123.58	-357.23	-948.84	1,257.34	1,219.64	37.70	33.349	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4D-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.00	5,061.24	4,904.09	4,789.55	19.95	23.16	123.58	-365.87	-970.08	1,285.88	1,247.38	38.50	33.401		
5,152.83	5,113.58	4,954.72	4,838.71	20.16	23.42	123.58	-370.43	-981.30	1,300.95	1,262.03	38.92	33.427		
5,200.00	5,160.37	4,999.99	4,882.67	20.36	23.66	123.80	-374.51	-991.34	1,314.21	1,274.92	39.29	33.447		
5,300.00	5,259.85	5,096.31	4,976.18	20.75	24.16	124.13	-383.19	-1,012.69	1,340.94	1,300.87	40.07	33.466		
5,400.00	5,359.63	5,193.01	5,070.07	21.11	24.67	124.31	-391.90	-1,034.12	1,365.79	1,324.96	40.82	33.456		
5,500.00	5,459.57	5,289.96	5,164.21	21.46	25.17	124.34	-400.64	-1,055.61	1,388.77	1,347.21	41.56	33.419		
5,540.43	5,500.00	5,329.21	5,202.32	21.58	25.38	-84.33	-404.18	-1,064.31	1,397.53	1,355.69	41.84	33.402		
5,600.00	5,559.57	5,387.05	5,258.48	21.76	25.68	-84.60	-409.39	-1,077.13	1,410.23	1,367.99	42.25	33.381		
5,700.00	5,659.57	5,484.14	5,352.75	22.05	26.19	-85.04	-418.14	-1,098.66	1,431.62	1,388.69	42.93	33.348		
5,800.00	5,759.57	5,581.24	5,447.02	22.35	26.70	-85.47	-426.89	-1,120.18	1,453.09	1,409.48	43.61	33.318		
5,900.00	5,859.57	5,678.33	5,541.30	22.65	27.20	-85.88	-435.64	-1,141.70	1,474.64	1,430.34	44.30	33.289		
6,000.00	5,959.57	5,775.43	5,635.57	22.95	27.71	-86.29	-444.39	-1,163.22	1,496.26	1,451.28	44.98	33.263		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4E-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													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)	Total Uncertainty Axis	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-89.97	0.03	-60.14	60.14					
100.00	100.00	100.00	100.00	0.14	0.14	-89.97	0.03	-60.14	60.14	59.87	0.28	217.890		
200.00	200.00	200.00	200.00	0.50	0.50	-89.97	0.03	-60.14	60.14	59.15	0.99	60.569		
300.00	300.00	300.00	300.00	0.85	0.85	-89.97	0.03	-60.14	60.14	58.43	1.71	35.173		
400.00	400.00	400.00	400.00	1.21	1.21	-89.97	0.03	-60.14	60.14	57.72	2.43	24.782		
500.00	500.00	500.00	500.00	1.57	1.57	-89.97	0.03	-60.14	60.14	57.00	3.14	19.131		
600.00	600.00	600.00	600.00	1.93	1.93	-89.97	0.03	-60.14	60.14	56.28	3.86	15.578	CC, ES	
700.00	699.98	698.01	697.99	2.27	2.27	119.46	-0.57	-61.71	62.58	58.03	4.55	13.745		
800.00	799.84	795.63	795.48	2.61	2.61	121.47	-2.35	-66.38	69.96	64.72	5.24	13.350	SF	
900.00	899.45	892.46	891.95	2.95	2.95	123.98	-5.29	-74.08	82.38	76.44	5.94	13.868		
987.60	986.42	976.35	975.27	3.26	3.25	126.11	-8.78	-83.20	97.44	90.88	6.56	14.855		
1,000.00	998.71	988.14	986.96	3.31	3.29	126.42	-9.34	-84.67	99.87	93.22	6.65	15.021		
1,100.00	1,097.79	1,082.67	1,080.39	3.68	3.65	128.00	-14.45	-98.04	121.12	113.77	7.35	16.474		
1,200.00	1,196.88	1,177.65	1,173.79	4.06	4.03	128.50	-20.59	-114.12	144.93	136.88	8.05	17.998		
1,300.00	1,295.96	1,274.65	1,269.08	4.44	4.43	128.77	-27.06	-131.05	169.23	160.46	8.77	19.306		
1,400.00	1,395.05	1,371.65	1,364.38	4.83	4.84	128.97	-33.53	-147.99	193.53	184.04	9.49	20.394		
1,500.00	1,494.14	1,468.65	1,459.67	5.23	5.25	129.13	-40.00	-164.92	217.83	207.61	10.22	21.310		
1,600.00	1,593.22	1,565.65	1,554.96	5.62	5.67	129.25	-46.48	-181.86	242.13	231.17	10.96	22.089		
1,700.00	1,692.31	1,662.65	1,650.25	6.02	6.09	129.35	-52.95	-198.79	266.43	254.73	11.71	22.758		
1,800.00	1,791.39	1,759.65	1,745.54	6.42	6.52	129.44	-59.42	-215.73	290.74	278.28	12.46	23.337		
1,900.00	1,890.48	1,856.65	1,840.83	6.83	6.95	129.51	-65.89	-232.67	315.04	301.83	13.21	23.843		
2,000.00	1,989.57	1,953.65	1,936.12	7.23	7.38	129.57	-72.36	-249.60	339.35	325.38	13.97	24.289		
2,100.00	2,088.65	2,050.65	2,031.41	7.63	7.81	129.62	-78.83	-266.54	363.66	348.92	14.73	24.684		
2,200.00	2,187.74	2,147.66	2,126.71	8.04	8.25	129.67	-85.30	-283.47	387.96	372.47	15.50	25.037		
2,300.00	2,286.82	2,244.66	2,222.00	8.45	8.68	129.71	-91.78	-300.41	412.27	396.01	16.26	25.353		
2,400.00	2,385.91	2,341.66	2,317.29	8.85	9.12	129.75	-98.25	-317.34	436.58	419.55	17.03	25.637		
2,500.00	2,485.00	2,438.66	2,412.58	9.26	9.56	129.78	-104.72	-334.28	460.88	443.08	17.80	25.895		
2,600.00	2,584.08	2,535.66	2,507.87	9.67	10.00	129.81	-111.19	-351.22	485.19	466.62	18.57	26.130		
2,700.00	2,683.17	2,632.66	2,603.16	10.08	10.44	129.84	-117.66	-368.15	509.50	490.16	19.34	26.344		
2,800.00	2,782.26	2,729.66	2,698.45	10.49	10.88	129.86	-124.13	-385.09	533.80	513.69	20.11	26.541		
2,900.00	2,881.34	2,826.66	2,793.74	10.90	11.32	129.88	-130.60	-402.02	558.11	537.22	20.89	26.722		
3,000.00	2,980.43	2,923.66	2,889.04	11.30	11.76	129.90	-137.08	-418.96	582.42	560.76	21.66	26.888		
3,100.00	3,079.51	3,020.66	2,984.33	11.71	12.20	129.92	-143.55	-435.89	606.73	584.29	22.44	27.043		
3,200.00	3,178.60	3,117.66	3,079.62	12.12	12.64	129.94	-150.02	-452.83	631.03	607.82	23.21	27.186		
3,300.00	3,277.69	3,214.66	3,174.91	12.54	13.09	129.96	-156.49	-469.77	655.34	631.35	23.99	27.319		
3,400.00	3,376.77	3,311.66	3,270.20	12.95	13.53	129.97	-162.96	-486.70	679.65	654.88	24.77	27.443		
3,500.00	3,475.86	3,408.66	3,365.49	13.36	13.97	129.98	-169.43	-503.64	703.96	678.41	25.54	27.560		
3,600.00	3,574.94	3,505.66	3,460.78	13.77	14.42	130.00	-175.90	-520.57	728.26	701.94	26.32	27.668		
3,700.00	3,674.03	3,602.66	3,556.07	14.18	14.86	130.01	-182.38	-537.51	752.57	725.47	27.10	27.770		
3,800.00	3,773.12	3,699.66	3,651.37	14.59	15.31	130.02	-188.85	-554.44	776.88	749.00	27.88	27.866		
3,900.00	3,872.20	3,796.67	3,746.66	15.00	15.75	130.03	-195.32	-571.38	801.19	772.53	28.66	27.957		
4,000.00	3,971.29	3,893.67	3,841.95	15.41	16.19	130.04	-201.79	-588.32	825.49	796.06	29.44	28.042		
4,100.00	4,070.37	3,990.67	3,937.24	15.82	16.64	130.05	-208.26	-605.25	849.80	819.58	30.22	28.123		
4,200.00	4,169.46	4,087.67	4,032.53	16.24	17.08	130.06	-214.73	-622.19	874.11	843.11	31.00	28.199		
4,300.00	4,268.55	4,184.67	4,127.82	16.65	17.53	130.07	-221.20	-639.12	898.42	866.64	31.78	28.271		
4,400.00	4,367.63	4,281.67	4,223.11	17.06	17.98	130.07	-227.67	-656.06	922.72	890.16	32.56	28.340		
4,500.00	4,466.72	4,378.67	4,318.40	17.47	18.42	130.08	-234.15	-672.99	947.03	913.69	33.34	28.405		
4,600.00	4,565.81	4,475.67	4,413.70	17.88	18.87	130.09	-240.62	-689.93	971.34	937.22	34.12	28.467		
4,700.00	4,664.89	4,572.67	4,508.99	18.30	19.31	130.10	-247.09	-706.87	995.65	960.74	34.90	28.526		
4,800.00	4,763.98	4,669.67	4,604.28	18.71	19.76	130.10	-253.56	-723.80	1,019.95	984.27	35.68	28.583		
4,900.00	4,863.06	4,766.67	4,699.57	19.12	20.20	130.11	-260.03	-740.74	1,044.26	1,007.80	36.47	28.636		
5,000.00	4,962.15	4,863.67	4,794.86	19.53	20.65	130.11	-266.50	-757.67	1,068.57	1,031.32	37.25	28.688		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4E-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.00	5,061.24	4,960.67	4,890.15	19.95	21.10	130.12	-272.97	-774.61	1,092.88	1,054.85	38.03	28.737		
5,152.83	5,113.58	5,011.91	4,940.49	20.16	21.33	130.12	-276.39	-783.56	1,105.72	1,067.28	38.44	28.762		
5,200.00	5,160.37	5,057.73	4,985.50	20.36	21.54	130.29	-279.45	-791.55	1,116.94	1,078.13	38.81	28.779		
5,300.00	5,259.85	5,155.21	5,081.26	20.75	21.99	130.50	-285.95	-808.57	1,139.12	1,099.54	39.58	28.782		
5,400.00	5,359.63	5,253.06	5,177.38	21.11	22.44	130.56	-292.48	-825.66	1,159.09	1,118.77	40.33	28.742		
5,500.00	5,459.57	5,351.16	5,273.76	21.46	22.89	130.45	-299.03	-842.79	1,176.87	1,135.81	41.06	28.663		
5,540.43	5,500.00	5,390.87	5,312.77	21.58	23.07	-78.28	-301.67	-849.72	1,183.45	1,142.10	41.34	28.624		
5,600.00	5,559.57	5,449.39	5,370.26	21.76	23.34	-78.57	-305.58	-859.94	1,192.89	1,151.13	41.75	28.571		
5,700.00	5,659.57	5,547.63	5,466.76	22.05	23.80	-79.04	-312.13	-877.09	1,208.80	1,166.36	42.44	28.484		
5,800.00	5,759.57	5,645.86	5,563.27	22.35	24.25	-79.50	-318.69	-894.24	1,224.79	1,181.66	43.13	28.401		
5,900.00	5,859.57	5,744.10	5,659.78	22.65	24.70	-79.95	-325.24	-911.39	1,240.85	1,197.04	43.81	28.322		
6,000.00	5,959.57	5,842.34	5,756.28	22.95	25.15	-80.38	-331.79	-928.54	1,256.99	1,212.49	44.50	28.247		
6,100.00	6,059.57	5,940.58	5,852.79	23.26	25.61	-80.81	-338.35	-945.69	1,273.20	1,228.01	45.19	28.175		
6,200.00	6,159.57	6,038.82	5,949.30	23.56	26.06	-81.22	-344.90	-962.85	1,289.47	1,243.59	45.88	28.106		
6,300.00	6,259.57	6,137.05	6,045.80	23.87	26.51	-81.63	-351.46	-980.00	1,305.81	1,259.24	46.57	28.041		
6,400.00	6,359.57	6,235.29	6,142.31	24.17	26.96	-82.02	-358.01	-997.15	1,322.21	1,274.95	47.26	27.978		
6,500.00	6,459.57	6,333.53	6,238.82	24.48	27.41	-82.41	-364.56	-1,014.30	1,338.67	1,290.72	47.95	27.919		
6,600.00	6,559.57	6,431.77	6,335.32	24.79	27.87	-82.78	-371.12	-1,031.45	1,355.19	1,306.55	48.64	27.861		
6,700.00	6,659.57	6,530.00	6,431.83	25.10	28.32	-83.15	-377.67	-1,048.60	1,371.77	1,322.43	49.33	27.806		
6,800.00	6,759.57	6,628.24	6,528.34	25.42	28.77	-83.51	-384.23	-1,065.76	1,388.39	1,338.37	50.03	27.754		
6,900.00	6,859.57	6,726.48	6,624.84	25.73	29.23	-83.86	-390.78	-1,082.91	1,405.08	1,354.36	50.72	27.703		
6,934.23	6,893.80	6,760.11	6,657.88	25.84	29.38	-83.98	-393.02	-1,088.78	1,410.80	1,359.84	50.96	27.686		
6,950.00	6,909.57	6,775.59	6,673.08	25.89	29.45	-84.41	-394.06	-1,091.48	1,413.42	1,362.35	51.06	27.679		
7,000.00	6,959.48	6,824.42	6,721.06	26.04	29.68	-84.04	-397.31	-1,100.01	1,421.52	1,370.12	51.40	27.657		
7,050.00	7,009.07	6,866.14	6,762.08	26.18	29.86	-83.73	-399.29	-1,107.30	1,429.42	1,377.76	51.66	27.672		
7,100.00	7,058.10	6,906.90	6,802.20	26.31	30.04	-83.43	-398.91	-1,114.45	1,437.26	1,385.38	51.89	27.700		
7,150.00	7,106.32	6,950.00	6,844.53	26.44	30.22	-83.18	-395.98	-1,122.00	1,445.04	1,392.92	52.12	27.725		
7,200.00	7,153.51	6,989.56	6,883.16	26.55	30.36	-82.92	-391.03	-1,128.91	1,452.71	1,400.40	52.31	27.773		
7,250.00	7,199.44	7,031.55	6,923.80	26.66	30.51	-82.71	-383.41	-1,136.19	1,460.26	1,407.76	52.50	27.814		
7,300.00	7,243.88	7,074.05	6,964.41	26.76	30.65	-82.53	-373.24	-1,143.48	1,467.66	1,414.97	52.69	27.856		
7,350.00	7,286.61	7,117.12	7,004.88	26.85	30.78	-82.39	-360.47	-1,150.75	1,474.88	1,422.00	52.87	27.895		
7,400.00	7,327.43	7,160.80	7,045.08	26.94	30.90	-82.28	-345.01	-1,158.00	1,481.89	1,428.84	53.06	27.930		
7,450.00	7,366.13	7,205.15	7,084.87	27.02	31.01	-82.21	-326.80	-1,165.18	1,488.69	1,435.44	53.24	27.959		
7,500.00	7,402.54	7,250.00	7,123.90	27.10	31.11	-82.16	-305.87	-1,172.25	1,495.23	1,441.79	53.44	27.981		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.25	-0.22	-50.07	50.07	49.80	0.28	181.402	
100.00	100.00	100.00	100.00	0.14	0.14	-90.25	-0.22	-50.07	50.07	49.08	0.99	50.426 CC	
200.00	200.00	200.00	200.00	0.50	0.50	-90.25	-0.22	-50.07	50.07	49.00	1.70	29.831 ES	
300.00	300.00	299.36	299.34	0.85	0.84	-92.07	-1.83	-50.66	50.70	50.65	2.43	21.834	
400.00	400.00	398.01	397.87	1.21	1.19	-96.91	-6.39	-52.66	53.09	55.81	3.21	18.408	
500.00	500.00	495.82	495.37	1.57	1.54	-101.94	-12.18	-57.56	59.02	64.74	3.98	17.247	
600.00	600.00	593.08	592.06	1.93	1.90	-106.08	-18.91	-65.59	68.73	77.57	4.72	17.440	
700.00	699.98	690.16	688.20	2.27	2.28	100.45	-26.57	-76.66	82.29	92.18	5.38	18.134	
800.00	799.84	788.98	785.92	2.61	2.68	100.86	-34.66	-88.90	97.56	107.51	6.06	18.742	
900.00	899.45	887.60	883.45	2.95	3.08	102.81	-42.74	-101.12	113.57	121.76	6.68	19.238	
987.60	986.42	973.73	968.63	3.26	3.44	105.29	-49.80	-111.78	128.44				
1,000.00	998.71	985.90	980.66	3.31	3.49	105.71	-50.80	-113.29	130.61	123.85	6.77	19.305	
1,100.00	1,097.79	1,084.06	1,077.73	3.68	3.89	108.65	-58.84	-125.45	148.37	140.89	7.49	19.819	
1,200.00	1,196.88	1,182.21	1,174.80	4.06	4.30	110.97	-66.88	-137.61	166.44	158.21	8.22	20.246	
1,300.00	1,295.96	1,280.37	1,271.86	4.44	4.71	112.83	-74.92	-149.76	184.71	175.74	8.96	20.603	
1,400.00	1,395.05	1,378.53	1,368.93	4.83	5.12	114.35	-82.96	-161.92	203.14	193.42	9.72	20.906	
1,500.00	1,494.14	1,476.68	1,466.00	5.23	5.54	115.62	-91.00	-174.08	221.68	211.21	10.47	21.164	
1,600.00	1,593.22	1,574.84	1,563.07	5.62	5.95	116.70	-99.05	-186.23	240.32	229.08	11.24	21.387	
1,700.00	1,692.31	1,673.00	1,660.14	6.02	6.36	117.62	-107.09	-198.39	259.02	247.02	12.00	21.582	
1,800.00	1,791.39	1,771.15	1,757.21	6.42	6.78	118.41	-115.13	-210.55	277.78	265.01	12.77	21.752	
1,900.00	1,890.48	1,869.31	1,854.27	6.83	7.19	119.11	-123.17	-222.70	296.58	283.04	13.54	21.903	
2,000.00	1,989.57	1,967.46	1,951.34	7.23	7.61	119.72	-131.21	-234.86	315.43	301.11	14.31	22.037	
2,100.00	2,088.65	2,065.62	2,048.41	7.63	8.02	120.26	-139.25	-247.02	334.30	319.21	15.09	22.157	
2,200.00	2,187.74	2,163.78	2,145.48	8.04	8.44	120.75	-147.29	-259.18	353.20	337.33	15.86	22.265	
2,300.00	2,286.82	2,261.93	2,242.55	8.45	8.85	121.19	-155.33	-271.33	372.12	355.48	16.64	22.363	
2,400.00	2,385.91	2,360.09	2,339.61	8.85	9.27	121.58	-163.38	-283.49	391.06	373.64	17.42	22.452	
2,500.00	2,485.00	2,458.25	2,436.68	9.26	9.68	121.94	-171.42	-295.65	410.01	391.82	18.20	22.534	
2,600.00	2,584.08	2,556.40	2,533.75	9.67	10.10	122.26	-179.46	-307.80	428.98	410.01	18.97	22.608	
2,700.00	2,683.17	2,654.56	2,630.82	10.08	10.51	122.56	-187.50	-319.96	447.96	428.21	19.75	22.677	
2,800.00	2,782.26	2,752.71	2,727.89	10.49	10.93	122.84	-195.54	-332.12	466.96	446.42	20.53	22.740	
2,900.00	2,881.34	2,850.87	2,824.95	10.90	11.34	123.09	-203.58	-344.27	485.96	464.64	21.32	22.799	
3,000.00	2,980.43	2,949.03	2,922.02	11.30	11.76	123.32	-211.62	-356.43	504.97	482.87	22.10	22.853	
3,100.00	3,079.51	3,047.18	3,019.09	11.71	12.18	123.54	-219.66	-368.59	523.99	501.11	22.88	22.904	
3,200.00	3,178.60	3,145.34	3,116.16	12.12	12.59	123.74	-227.71	-380.75	543.01	519.35	23.66	22.951	
3,300.00	3,277.69	3,243.50	3,213.23	12.54	13.01	123.93	-235.75	-392.90	562.04	537.60	24.44	22.995	
3,400.00	3,376.77	3,341.65	3,310.29	12.95	13.42	124.10	-243.79	-405.06	581.08	555.86	25.22	23.036	
3,500.00	3,475.86	3,439.81	3,407.36	13.36	13.84	124.27	-251.83	-417.22	600.12	574.11	26.01	23.075	
3,600.00	3,574.94	3,537.97	3,504.43	13.77	14.26	124.42	-259.87	-429.37	619.17	592.38	26.79	23.112	
3,700.00	3,674.03	3,636.12	3,601.50	14.18	14.67	124.57	-267.91	-441.53	638.22	610.64	27.57	23.146	
3,800.00	3,773.12	3,734.28	3,698.57	14.59	15.09	124.70	-275.95	-453.69	657.27	628.91	28.36	23.179	
3,900.00	3,872.20	3,832.43	3,795.63	15.00	15.51	124.83	-283.99	-465.84	676.33	647.19	29.14	23.209	
4,000.00	3,971.29	3,930.59	3,892.70	15.41	15.92	124.95	-292.04	-478.00	695.39	665.46	29.92	23.239	
4,100.00	4,070.37	4,028.75	3,989.77	15.82	16.34	125.07	-300.08	-490.16	714.45	683.74	30.71	23.266	
4,200.00	4,169.46	4,126.90	4,086.84	16.24	16.76	125.18	-308.12	-502.32	733.51	702.02	31.49	23.292	
4,300.00	4,268.55	4,225.06	4,183.91	16.65	17.17	125.28	-316.16	-514.47	752.58	720.31	32.28	23.317	
4,400.00	4,367.63	4,323.22	4,280.98	17.06	17.59	125.38	-324.20	-526.63	771.65	738.59	33.06	23.341	
4,500.00	4,466.72	4,421.37	4,378.04	17.47	18.00	125.48	-332.24	-538.79	790.73	756.88	33.84	23.364	
4,600.00	4,565.81	4,519.53	4,475.11	17.88	18.42	125.57	-340.28	-550.94	809.80	775.17	34.63	23.385	
4,700.00	4,664.89	4,617.69	4,572.18	18.30	18.84	125.65	-348.32	-563.10	828.88	793.46	35.41	23.406	
4,800.00	4,763.98	4,715.84	4,669.25	18.71	19.25	125.73	-356.37	-575.26	847.95	811.76	36.20	23.425	
4,900.00	4,863.06	4,814.00	4,766.32	19.12	19.67	125.81	-364.41	-587.41	867.03	830.05	36.98	23.444	
5,000.00	4,962.15	4,912.15	4,863.38	19.53	20.09	125.88	-372.45	-599.57	886.11	848.35	37.77	23.462	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference				Offset		Semi Major Axis					Distance			Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.00	5,061.24	5,010.31	4,960.45	19.95	20.50	125.96	-380.49	-611.73	905.20	866.64	38.55	23.479		
5,152.83	5,113.58	5,062.16	5,011.73	20.16	20.72	125.99	-384.74	-618.15	915.28	876.31	38.97	23.488		
5,200.00	5,160.37	5,108.51	5,057.56	20.36	20.92	126.15	-388.53	-623.89	924.05	884.72	39.34	23.492		
5,300.00	5,259.85	5,207.02	5,154.98	20.75	21.34	126.33	-396.60	-636.09	941.17	901.07	40.10	23.469		
5,400.00	5,359.63	5,305.77	5,252.63	21.11	21.76	126.30	-404.69	-648.32	956.26	915.41	40.85	23.407		
5,500.00	5,459.57	5,404.64	5,350.41	21.46	22.18	126.09	-412.80	-660.57	969.34	927.75	41.58	23.310		
5,540.43	5,500.00	5,444.63	5,389.95	21.58	22.35	-82.70	-416.07	-665.52	974.06	932.20	41.87	23.265		
5,600.00	5,559.57	5,503.54	5,448.21	21.76	22.60	-83.04	-420.90	-672.82	980.81	938.54	42.27	23.201		
5,700.00	5,659.57	5,602.43	5,546.01	22.05	23.02	-83.59	-429.00	-685.06	992.21	949.25	42.96	23.098		
5,800.00	5,759.57	5,701.32	5,643.80	22.35	23.44	-84.13	-437.10	-697.31	1,003.70	960.06	43.64	22.999		
5,900.00	5,859.57	5,800.21	5,741.60	22.65	23.86	-84.66	-445.20	-709.56	1,015.28	970.96	44.32	22.906		
6,000.00	5,959.57	5,899.10	5,839.39	22.95	24.28	-85.18	-453.30	-721.81	1,026.94	981.93	45.01	22.817		
6,100.00	6,059.57	5,997.99	5,937.19	23.26	24.70	-85.69	-461.40	-734.06	1,038.68	992.99	45.69	22.732		
6,200.00	6,159.57	6,096.89	6,034.98	23.56	25.12	-86.18	-469.51	-746.30	1,050.51	1,004.13	46.38	22.651		
6,300.00	6,259.57	6,195.78	6,132.77	23.87	25.54	-86.66	-477.61	-758.55	1,062.40	1,015.34	47.06	22.574		
6,400.00	6,359.57	6,294.67	6,230.57	24.17	25.96	-87.14	-485.71	-770.80	1,074.37	1,026.62	47.75	22.500		
6,500.00	6,459.57	6,393.56	6,328.36	24.48	26.38	-87.60	-493.81	-783.05	1,086.42	1,037.98	48.44	22.430		
6,600.00	6,559.57	6,492.45	6,426.16	24.79	26.80	-88.05	-501.91	-795.30	1,098.53	1,049.40	49.12	22.362		
6,700.00	6,659.57	6,591.34	6,523.95	25.10	27.22	-88.49	-510.01	-807.54	1,110.71	1,060.89	49.81	22.298		
6,800.00	6,759.57	6,690.23	6,621.75	25.42	27.63	-88.93	-518.11	-819.79	1,122.95	1,072.45	50.50	22.237		
6,900.00	6,859.57	6,789.12	6,719.54	25.73	28.05	-89.35	-526.22	-832.04	1,135.25	1,084.06	51.19	22.178		
6,934.23	6,893.80	6,822.98	6,753.02	25.84	28.20	-89.49	-528.99	-836.23	1,139.48	1,088.05	51.42	22.158		
6,950.00	6,909.57	6,838.55	6,768.43	25.89	28.26	-90.00	-530.27	-838.16	1,141.43	1,089.89	51.53	22.150		
7,000.00	6,959.48	6,887.67	6,817.00	26.04	28.47	-89.84	-534.29	-844.25	1,147.63	1,095.76	51.86	22.128		
7,050.00	7,009.07	6,935.83	6,864.65	26.18	28.67	-89.82	-537.90	-850.22	1,153.89	1,101.72	52.17	22.117		
7,100.00	7,058.10	6,983.85	6,912.27	26.31	28.86	-89.82	-538.75	-856.24	1,160.26	1,107.80	52.46	22.118		
7,150.00	7,106.32	7,032.55	6,960.51	26.44	29.03	-89.82	-536.32	-862.39	1,166.72	1,113.99	52.73	22.128		
7,200.00	7,153.51	7,081.99	7,009.19	26.55	29.19	-89.82	-530.49	-868.66	1,173.23	1,120.26	52.98	22.145		
7,250.00	7,199.44	7,132.19	7,058.09	26.66	29.33	-89.82	-521.12	-875.02	1,179.78	1,126.56	53.22	22.168		
7,300.00	7,243.88	7,183.21	7,106.98	26.76	29.46	-89.82	-508.08	-881.44	1,186.32	1,132.87	53.45	22.195		
7,350.00	7,286.61	7,235.08	7,155.61	26.85	29.58	-89.83	-491.25	-887.89	1,192.82	1,139.15	53.67	22.224		
7,400.00	7,327.43	7,287.84	7,203.70	26.94	29.68	-89.84	-470.55	-894.35	1,199.25	1,145.36	53.89	22.255		
7,450.00	7,366.13	7,341.53	7,250.93	27.02	29.77	-89.85	-445.87	-900.76	1,205.56	1,151.46	54.10	22.285		
7,500.00	7,402.54	7,396.18	7,296.98	27.10	29.85	-89.87	-417.17	-907.10	1,211.72	1,157.42	54.30	22.314		
7,550.00	7,436.46	7,451.79	7,341.47	27.18	29.91	-89.88	-384.40	-913.31	1,217.69	1,163.18	54.51	22.340		
7,600.00	7,467.74	7,508.40	7,384.01	27.26	29.95	-89.90	-347.57	-919.34	1,223.43	1,168.71	54.71	22.360		
7,650.00	7,496.23	7,565.99	7,424.19	27.34	29.98	-89.93	-306.74	-925.14	1,228.90	1,173.97	54.93	22.373		
7,700.00	7,521.78	7,624.56	7,461.57	27.43	30.00	-89.95	-262.01	-930.66	1,234.05	1,178.90	55.15	22.376		
7,750.00	7,544.27	7,684.09	7,495.71	27.53	30.00	-89.97	-213.54	-935.83	1,238.86	1,183.47	55.39	22.367		
7,800.00	7,563.59	7,744.53	7,526.17	27.64	29.98	-89.98	-161.57	-940.59	1,243.28	1,187.64	55.64	22.344		
7,850.00	7,579.65	7,805.83	7,552.49	27.76	29.96	-90.00	-106.40	-944.89	1,247.27	1,191.35	55.92	22.304		
7,900.00	7,592.37	7,867.91	7,574.28	27.89	29.92	-90.00	-48.42	-948.67	1,250.81	1,194.58	56.23	22.246		
7,950.00	7,601.69	7,930.68	7,591.16	28.04	29.87	-90.01	11.94	-951.86	1,253.85	1,197.29	56.56	22.169		
8,000.00	7,607.55	7,994.03	7,602.82	28.20	29.82	-90.00	74.13	-954.42	1,256.38	1,199.46	56.92	22.072		
8,050.00	7,609.94	8,057.84	7,608.99	28.37	29.76	-89.98	137.60	-956.31	1,258.38	1,201.06	57.31	21.956		
8,059.23	7,610.00	8,069.66	7,609.52	28.41	29.75	-89.98	149.40	-956.58	1,258.68	1,201.29	57.39	21.932		
8,100.00	7,610.00	8,116.22	7,610.00	28.56	29.72	-90.00	195.94	-957.46	1,259.86	1,202.13	57.73	21.825		
8,200.00	7,610.00	8,216.18	7,610.00	29.01	29.82	-90.00	295.89	-959.20	1,262.63	1,204.03	58.60	21.546		
8,300.00	7,610.00	8,316.14	7,610.00	29.54	30.33	-90.00	395.83	-960.94	1,265.40	1,205.76	59.63	21.220		
8,400.00	7,610.00	8,416.10	7,610.00	30.15	30.95	-90.00	495.78	-962.69	1,268.16	1,207.35	60.81	20.853		
8,500.00	7,610.00	8,516.06	7,610.00	30.83	31.64	-90.00	595.72	-964.43	1,270.93	1,208.80	62.13	20.455		
8,600.00	7,610.00	8,616.02	7,610.00	31.57	32.40	-90.00	695.67	-966.18	1,273.70	1,210.12	63.58	20.032		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: O-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference				Offset			Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
8,700.00	7,610.00	8,715.99	7,610.00	32.37	33.20	-90.00	795.62	-967.92	1,276.47	1,211.31	65.16	19.591		
8,800.00	7,610.00	8,815.95	7,610.00	33.23	34.06	-90.00	895.56	-969.67	1,279.23	1,212.39	66.84	19.138		
8,900.00	7,610.00	8,915.91	7,610.00	34.14	34.97	-90.00	995.51	-971.41	1,282.00	1,213.37	68.63	18.679		
9,000.00	7,610.00	9,015.87	7,610.00	35.10	35.92	-90.00	1,095.46	-973.16	1,284.77	1,214.25	70.52	18.218		
9,100.00	7,610.00	9,115.83	7,610.00	36.10	36.91	-90.00	1,195.40	-974.90	1,287.54	1,215.04	72.50	17.759		
9,200.00	7,610.00	9,215.79	7,610.00	37.15	37.94	-90.00	1,295.35	-976.65	1,290.31	1,215.75	74.56	17.306		
9,300.00	7,610.00	9,315.76	7,610.00	38.22	39.01	-90.00	1,395.30	-978.39	1,293.07	1,216.38	76.70	16.860		
9,400.00	7,610.00	9,415.72	7,610.00	39.33	40.12	-90.00	1,495.24	-980.13	1,295.84	1,216.94	78.90	16.424		
9,500.00	7,610.00	9,515.68	7,610.00	40.48	41.25	-90.00	1,595.19	-981.88	1,298.61	1,217.44	81.17	15.998		
9,600.00	7,610.00	9,615.64	7,610.00	41.65	42.41	-90.00	1,695.14	-983.62	1,301.38	1,217.88	83.50	15.585		
9,700.00	7,610.00	9,715.60	7,610.00	42.84	43.60	-90.00	1,795.08	-985.37	1,304.15	1,218.26	85.88	15.185		
9,800.00	7,610.00	9,815.56	7,610.00	44.06	44.81	-90.00	1,895.03	-987.11	1,306.91	1,218.60	88.31	14.798		
9,900.00	7,610.00	9,915.53	7,610.00	45.31	46.04	-90.00	1,994.98	-988.86	1,309.68	1,218.89	90.79	14.425		
10,000.00	7,610.00	10,015.49	7,610.00	46.57	47.30	-90.00	2,094.92	-990.60	1,312.45	1,219.14	93.31	14.065		
10,100.00	7,610.00	10,115.45	7,610.00	47.85	48.58	-90.00	2,194.87	-992.35	1,315.22	1,219.35	95.87	13.719		
10,200.00	7,610.00	10,215.41	7,610.00	49.15	49.87	-90.00	2,294.81	-994.09	1,317.98	1,219.52	98.47	13.385		
10,300.00	7,610.00	10,315.37	7,610.00	50.46	51.18	-90.00	2,394.76	-995.84	1,320.75	1,219.66	101.09	13.065		
10,400.00	7,610.00	10,415.33	7,610.00	51.79	52.50	-90.00	2,494.71	-997.58	1,323.52	1,219.77	103.75	12.757		
10,500.00	7,610.00	10,515.30	7,610.00	53.13	53.84	-90.00	2,594.65	-999.32	1,326.29	1,219.85	106.44	12.461		
10,600.00	7,610.00	10,615.26	7,610.00	54.49	55.20	-90.00	2,694.60	-1,001.07	1,329.06	1,219.91	109.15	12.177		
10,700.00	7,610.00	10,715.22	7,610.00	55.85	56.56	-90.00	2,794.55	-1,002.81	1,331.82	1,219.94	111.88	11.904		
10,800.00	7,610.00	10,815.18	7,610.00	57.23	57.94	-90.00	2,894.49	-1,004.56	1,334.59	1,219.95	114.64	11.641		
10,900.00	7,610.00	10,915.14	7,610.00	58.62	59.33	-90.00	2,994.44	-1,006.30	1,337.36	1,219.94	117.42	11.390		
11,000.00	7,610.00	11,015.10	7,610.00	60.01	60.72	-90.00	3,094.39	-1,008.05	1,340.13	1,219.91	120.22	11.147		
11,100.00	7,610.00	11,115.07	7,610.00	61.42	62.13	-90.00	3,194.33	-1,009.79	1,342.89	1,219.86	123.04	10.915		
11,200.00	7,610.00	11,215.03	7,610.00	62.83	63.55	-90.00	3,294.28	-1,011.54	1,345.66	1,219.79	125.87	10.691		
11,300.00	7,610.00	11,314.99	7,610.00	64.25	64.97	-90.00	3,394.23	-1,013.28	1,348.43	1,219.71	128.72	10.476		
11,400.00	7,610.00	11,414.95	7,610.00	65.68	66.40	-90.00	3,494.17	-1,015.03	1,351.20	1,219.62	131.58	10.269		
11,500.00	7,610.00	11,514.91	7,610.00	67.11	67.84	-90.00	3,594.12	-1,016.77	1,353.97	1,219.51	134.46	10.070		
11,600.00	7,610.00	11,614.87	7,610.00	68.55	69.29	-90.00	3,694.06	-1,018.52	1,356.73	1,219.38	137.35	9.878		
11,700.00	7,610.00	11,714.84	7,610.00	70.00	70.74	-90.00	3,794.01	-1,020.26	1,359.50	1,219.25	140.25	9.693		
11,800.00	7,610.00	11,814.80	7,610.00	71.45	72.20	-90.00	3,893.96	-1,022.00	1,362.27	1,219.10	143.17	9.515		
11,900.00	7,610.00	11,914.76	7,610.00	72.90	73.66	-90.00	3,993.90	-1,023.75	1,365.04	1,218.94	146.09	9.344		
12,000.00	7,610.00	12,014.72	7,610.00	74.37	75.13	-90.00	4,093.85	-1,025.49	1,367.81	1,218.78	149.03	9.178		
12,100.00	7,610.00	12,114.68	7,610.00	75.83	76.60	-90.00	4,193.80	-1,027.24	1,370.57	1,218.60	151.97	9.019		
12,200.00	7,610.00	12,214.64	7,610.00	77.30	78.08	-90.00	4,293.74	-1,028.98	1,373.34	1,218.42	154.93	8.865		
12,300.00	7,610.00	12,314.61	7,610.00	78.78	79.56	-90.00	4,393.69	-1,030.73	1,376.11	1,218.22	157.89	8.716		
12,400.00	7,610.00	12,414.57	7,610.00	80.26	81.05	-90.00	4,493.64	-1,032.47	1,378.88	1,218.02	160.86	8.572		
12,500.00	7,610.00	12,514.53	7,610.00	81.74	82.54	-90.00	4,593.58	-1,034.22	1,381.64	1,217.81	163.83	8.433		
12,600.00	7,610.00	12,614.49	7,610.00	83.22	84.04	-90.00	4,693.53	-1,035.96	1,384.41	1,217.59	166.82	8.299		
12,700.00	7,610.00	12,714.45	7,610.00	84.71	85.54	-90.00	4,793.48	-1,037.71	1,387.18	1,217.37	169.81	8.169		
12,800.00	7,610.00	12,814.41	7,610.00	86.20	87.04	-90.00	4,893.42	-1,039.45	1,389.95	1,217.14	172.81	8.043		
12,900.00	7,610.00	12,914.38	7,610.00	87.70	88.54	-90.00	4,993.37	-1,041.19	1,392.72	1,216.90	175.81	7.922		
13,000.00	7,610.00	13,014.34	7,610.00	89.19	90.05	-90.00	5,093.32	-1,042.94	1,395.48	1,216.66	178.82	7.804		
13,100.00	7,610.00	13,114.30	7,610.00	90.69	91.56	-90.00	5,193.26	-1,044.68	1,398.25	1,216.41	181.84	7.690		
13,200.00	7,610.00	13,214.26	7,610.00	92.20	93.08	-90.00	5,293.21	-1,046.43	1,401.02	1,216.16	184.86	7.579		
13,300.00	7,610.00	13,314.22	7,610.00	93.70	94.59	-90.00	5,393.15	-1,048.17	1,403.79	1,215.90	187.88	7.472		
13,400.00	7,610.00	13,414.18	7,610.00	95.21	96.11	-90.00	5,493.10	-1,049.92	1,406.56	1,215.64	190.91	7.368		
13,500.00	7,610.00	13,514.15	7,610.00	96.72	97.63	-90.00	5,593.05	-1,051.66	1,409.32	1,215.38	193.95	7.267		
13,600.00	7,610.00	13,614.11	7,610.00	98.23	99.16	-90.00	5,692.99	-1,053.41	1,412.09	1,215.10	196.99	7.168		
13,700.00	7,610.00	13,714.07	7,610.00	99.74	100.69	-90.00	5,792.94	-1,055.15	1,414.86	1,214.83	200.03	7.073		
13,800.00	7,610.00	13,814.03	7,610.00	101.26	102.21	-90.00	5,892.89	-1,056.90	1,417.63	1,214.55	203.08	6.981		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
13,900.00	7,610.00	13,913.99	7,610.00	102.78	103.74	-90.00	5,992.83	-1,058.64	1,420.39	1,214.27	206.13	6.891		
14,000.00	7,610.00	14,110.72	7,610.00	104.30	106.71	-90.00	6,189.47	-1,056.86	1,421.24	1,211.28	209.96	6.769		
14,100.00	7,610.00	14,210.64	7,610.00	105.82	108.18	-90.00	6,289.26	-1,051.81	1,417.20	1,204.24	212.96	6.655		
14,200.00	7,610.00	14,310.56	7,610.00	107.34	109.65	-90.00	6,389.05	-1,046.75	1,413.17	1,197.20	215.97	6.543		
14,300.00	7,610.00	14,410.47	7,610.00	108.86	111.12	-90.00	6,488.84	-1,041.70	1,409.13	1,190.16	218.98	6.435		
14,400.00	7,610.00	14,510.39	7,610.00	110.39	112.60	-90.00	6,588.64	-1,036.65	1,405.10	1,183.11	221.99	6.330		
14,500.00	7,610.00	14,610.31	7,610.00	111.91	114.08	-90.00	6,688.43	-1,031.60	1,401.07	1,176.06	225.00	6.227		
14,600.00	7,610.00	14,710.23	7,610.00	113.44	115.56	-90.00	6,788.22	-1,026.55	1,397.03	1,169.01	228.02	6.127		
14,700.00	7,610.00	14,810.15	7,610.00	114.97	117.04	-90.00	6,888.01	-1,021.50	1,393.00	1,161.96	231.04	6.029		
14,800.00	7,610.00	14,856.87	7,610.00	116.50	117.73	-90.00	6,934.67	-1,019.13	1,389.98	1,156.23	233.76	5.946		
14,802.87	7,610.00	14,856.87	7,610.00	116.54	117.73	-90.00	6,934.67	-1,019.13	1,389.98	1,156.16	233.82	5.945		
14,823.68	7,610.00	14,856.87	7,610.00	116.86	117.73	-90.00	6,934.67	-1,019.13	1,390.14	1,155.90	234.23	5.935 SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.25	-0.17	-40.00	40.00					
100.00	100.00	100.00	100.00	0.14	0.14	-90.25	-0.17	-40.00	40.00	39.73	0.28	144.919		
200.00	200.00	200.00	200.00	0.50	0.50	-90.25	-0.17	-40.00	40.00	39.01	0.99	40.284		
300.00	300.00	300.00	300.00	0.85	0.85	-90.25	-0.17	-40.00	40.00	38.29	1.71	23.394		
400.00	400.00	400.00	400.00	1.21	1.21	-90.25	-0.17	-40.00	40.00	37.57	2.43	16.483		
500.00	500.00	500.00	500.00	1.57	1.57	-90.25	-0.17	-40.00	40.00	36.86	3.14	12.724		
600.00	600.00	600.00	600.00	1.93	1.93	-90.25	-0.17	-40.00	40.00	36.14	3.86	10.361	CC, ES	
700.00	699.98	699.98	699.98	2.27	2.29	120.54	-0.17	-40.00	40.86	36.30	4.56	8.958		
800.00	799.84	799.84	799.84	2.61	2.65	126.40	-0.17	-40.00	43.75	38.50	5.25	8.329		
900.00	899.45	898.46	898.44	2.95	2.99	132.78	-1.25	-41.30	50.42	44.48	5.94	8.489		
987.60	986.42	984.50	984.37	3.26	3.28	136.61	-3.97	-44.57	60.23	53.69	6.54	9.211		
1,000.00	998.71	996.64	996.49	3.31	3.32	137.02	-4.48	-45.19	61.89	55.26	6.63	9.341		
1,100.00	1,097.79	1,094.39	1,093.87	3.68	3.65	138.44	-9.83	-51.62	76.28	68.96	7.32	10.426		
1,200.00	1,196.88	1,191.63	1,190.41	4.06	4.00	137.58	-17.26	-60.55	92.38	84.37	8.02	11.521		
1,300.00	1,295.96	1,289.56	1,287.32	4.44	4.36	135.85	-26.31	-71.44	109.83	101.09	8.74	12.573		
1,400.00	1,395.05	1,387.97	1,384.67	4.83	4.73	134.54	-35.50	-82.48	127.42	117.96	9.47	13.463		
1,500.00	1,494.14	1,486.37	1,482.02	5.23	5.11	133.54	-44.68	-93.53	145.07	134.86	10.20	14.217		
1,600.00	1,593.22	1,584.78	1,579.37	5.62	5.49	132.76	-53.87	-104.57	162.74	151.80	10.95	14.863		
1,700.00	1,692.31	1,683.18	1,676.72	6.02	5.88	132.14	-63.05	-115.62	180.45	168.74	11.70	15.421		
1,800.00	1,791.39	1,781.58	1,774.07	6.42	6.27	131.62	-72.24	-126.66	198.16	185.70	12.46	15.907		
1,900.00	1,890.48	1,879.99	1,871.42	6.83	6.66	131.19	-81.42	-137.70	215.89	202.67	13.22	16.332		
2,000.00	1,989.57	1,978.39	1,968.76	7.23	7.06	130.83	-90.60	-148.75	233.63	219.65	13.98	16.709		
2,100.00	2,088.65	2,076.79	2,066.11	7.63	7.46	130.52	-99.79	-159.79	251.38	236.63	14.75	17.043		
2,200.00	2,187.74	2,175.20	2,163.46	8.04	7.86	130.24	-108.97	-170.84	269.14	253.62	15.52	17.342		
2,300.00	2,286.82	2,273.60	2,260.81	8.45	8.26	130.01	-118.16	-181.88	286.90	270.60	16.29	17.611		
2,400.00	2,385.91	2,372.01	2,358.16	8.85	8.66	129.79	-127.34	-192.93	304.66	287.60	17.06	17.854		
2,500.00	2,485.00	2,470.41	2,455.51	9.26	9.07	129.61	-136.53	-203.97	322.43	304.59	17.84	18.074		
2,600.00	2,584.08	2,568.81	2,552.86	9.67	9.47	129.44	-145.71	-215.01	340.20	321.58	18.62	18.275		
2,700.00	2,683.17	2,667.22	2,650.21	10.08	9.88	129.29	-154.89	-226.06	357.97	338.58	19.39	18.459		
2,800.00	2,782.26	2,765.62	2,747.56	10.49	10.28	129.15	-164.08	-237.10	375.75	355.57	20.17	18.628		
2,900.00	2,881.34	2,864.02	2,844.91	10.90	10.69	129.03	-173.26	-248.15	393.52	372.57	20.95	18.783		
3,000.00	2,980.43	2,962.43	2,942.26	11.30	11.10	128.91	-182.45	-259.19	411.30	389.57	21.73	18.926		
3,100.00	3,079.51	3,060.83	3,039.61	11.71	11.51	128.81	-191.63	-270.24	429.08	406.57	22.51	19.059		
3,200.00	3,178.60	3,159.24	3,136.96	12.12	11.92	128.71	-200.82	-281.28	446.86	423.57	23.29	19.183		
3,300.00	3,277.69	3,257.64	3,234.31	12.54	12.33	128.62	-210.00	-292.32	464.65	440.57	24.08	19.298		
3,400.00	3,376.77	3,356.04	3,331.66	12.95	12.74	128.54	-219.18	-303.37	482.43	457.57	24.86	19.406		
3,500.00	3,475.86	3,454.45	3,429.01	13.36	13.15	128.47	-228.37	-314.41	500.21	474.57	25.64	19.506		
3,600.00	3,574.94	3,552.85	3,526.36	13.77	13.56	128.40	-237.55	-325.46	518.00	491.57	26.43	19.600		
3,700.00	3,674.03	3,651.25	3,623.71	14.18	13.97	128.33	-246.74	-336.50	535.78	508.57	27.21	19.689		
3,800.00	3,773.12	3,749.66	3,721.06	14.59	14.38	128.27	-255.92	-347.55	553.57	525.57	28.00	19.772		
3,900.00	3,872.20	3,848.06	3,818.41	15.00	14.79	128.21	-265.11	-358.59	571.36	542.58	28.78	19.851		
4,000.00	3,971.29	3,946.47	3,915.76	15.41	15.21	128.15	-274.29	-369.63	589.15	559.58	29.57	19.925		
4,100.00	4,070.37	4,044.87	4,013.11	15.82	15.62	128.10	-283.47	-380.68	606.93	576.58	30.35	19.995		
4,200.00	4,169.46	4,143.27	4,110.46	16.24	16.03	128.05	-292.66	-391.72	624.72	593.58	31.14	20.061		
4,300.00	4,268.55	4,241.68	4,207.81	16.65	16.44	128.01	-301.84	-402.77	642.51	610.59	31.93	20.124		
4,400.00	4,367.63	4,340.08	4,305.16	17.06	16.85	127.96	-311.03	-413.81	660.30	627.59	32.71	20.184		
4,500.00	4,466.72	4,438.49	4,402.51	17.47	17.27	127.92	-320.21	-424.86	678.09	644.59	33.50	20.241		
4,600.00	4,565.81	4,536.89	4,499.86	17.88	17.68	127.88	-329.40	-435.90	695.88	661.59	34.29	20.295		
4,700.00	4,664.89	4,635.29	4,597.21	18.30	18.09	127.85	-338.58	-446.94	713.67	678.60	35.08	20.347		
4,800.00	4,763.98	4,733.70	4,694.56	18.71	18.51	127.81	-347.76	-457.99	731.46	695.60	35.86	20.396		
4,900.00	4,863.06	4,832.10	4,791.91	19.12	18.92	127.78	-356.95	-469.03	749.25	712.60	36.65	20.443		
5,000.00	4,962.15	4,930.50	4,889.26	19.53	19.33	127.75	-366.13	-480.08	767.04	729.61	37.44	20.488		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft		
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft		
Reference				Offset		Semi Major Axis					Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
5,100.00	5,061.24	5,028.91	4,986.61	19.95	19.75	127.72	-375.32	-491.12	784.84	746.61	38.23	20.531			
5,152.83	5,113.58	5,080.89	5,038.03	20.16	19.96	127.70	-380.17	-496.96	794.24	755.59	38.64	20.553			
5,200.00	5,160.37	5,127.35	5,084.00	20.36	20.16	127.80	-384.50	-502.17	802.39	763.38	39.01	20.568			
5,300.00	5,259.85	5,226.05	5,181.64	20.75	20.57	127.83	-393.72	-513.25	818.14	778.36	39.79	20.564			
5,400.00	5,359.63	5,324.94	5,279.47	21.11	20.99	127.65	-402.95	-524.35	831.80	791.26	40.54	20.517			
5,500.00	5,459.57	5,423.91	5,377.37	21.46	21.41	127.26	-412.18	-535.45	843.40	802.12	41.28	20.431			
5,540.43	5,500.00	5,463.91	5,416.95	21.58	21.57	-81.61	-415.92	-539.94	847.52	805.96	41.57	20.389			
5,600.00	5,559.57	5,522.84	5,475.25	21.76	21.82	-82.04	-421.42	-546.56	853.38	811.41	41.98	20.329			
5,700.00	5,659.57	5,621.77	5,573.12	22.05	22.24	-82.75	-430.65	-557.66	863.33	820.66	42.67	20.233			
5,800.00	5,759.57	5,720.70	5,670.99	22.35	22.65	-83.45	-439.88	-568.77	873.41	830.05	43.36	20.143			
5,900.00	5,859.57	5,819.63	5,768.86	22.65	23.07	-84.13	-449.12	-579.87	883.62	839.57	44.05	20.059			
6,000.00	5,959.57	5,918.56	5,866.73	22.95	23.49	-84.80	-458.35	-590.97	893.94	849.20	44.74	19.981			
6,100.00	6,059.57	6,017.49	5,964.60	23.26	23.90	-85.45	-467.58	-602.08	904.39	858.96	45.43	19.907			
6,200.00	6,159.57	6,116.41	6,062.47	23.56	24.32	-86.08	-476.82	-613.18	914.94	868.82	46.12	19.838			
6,300.00	6,259.57	6,215.34	6,160.33	23.87	24.74	-86.70	-486.05	-624.28	925.61	878.80	46.81	19.773			
6,400.00	6,359.57	6,314.27	6,258.20	24.17	25.15	-87.31	-495.28	-635.38	936.38	888.88	47.50	19.712			
6,500.00	6,459.57	6,413.20	6,356.07	24.48	25.57	-87.90	-504.52	-646.49	947.26	899.07	48.19	19.655			
6,600.00	6,559.57	6,512.13	6,453.94	24.79	25.99	-88.48	-513.75	-657.59	958.24	909.35	48.88	19.602			
6,700.00	6,659.57	6,611.06	6,551.81	25.10	26.40	-89.05	-522.98	-668.69	969.31	919.73	49.58	19.552			
6,800.00	6,759.57	6,709.86	6,649.63	25.42	26.81	-89.54	-531.17	-679.79	980.47	930.21	50.26	19.508			
6,900.00	6,859.57	6,808.69	6,747.72	25.73	27.16	-89.38	-528.29	-690.85	991.71	940.81	50.90	19.483			
6,934.23	6,893.80	6,842.11	6,780.68	25.84	27.27	-89.14	-524.23	-694.55	995.58	944.47	51.11	19.481			
6,950.00	6,909.57	6,857.38	6,795.68	25.89	27.31	-89.46	-521.87	-696.23	997.38	946.18	51.20	19.481			
7,000.00	6,959.48	6,905.53	6,842.56	26.04	27.44	-88.61	-512.31	-701.48	1,003.10	951.63	51.47	19.490			
7,050.00	7,009.07	6,953.24	6,888.30	26.18	27.56	-87.78	-499.73	-706.58	1,008.85	957.14	51.71	19.509			
7,100.00	7,058.10	7,000.00	6,932.21	26.31	27.66	-86.97	-484.47	-711.46	1,014.59	962.66	51.93	19.538			
7,150.00	7,106.32	7,047.49	6,975.70	26.44	27.75	-86.17	-466.04	-716.28	1,020.29	968.16	52.13	19.572			
7,200.00	7,153.51	7,094.07	7,017.10	26.55	27.83	-85.40	-445.19	-720.84	1,025.92	973.61	52.31	19.613			
7,250.00	7,199.44	7,140.32	7,056.78	26.66	27.89	-84.66	-421.85	-725.20	1,031.45	978.98	52.47	19.659			
7,300.00	7,243.88	7,186.27	7,094.65	26.76	27.95	-83.95	-396.16	-729.35	1,036.84	984.22	52.61	19.707			
7,350.00	7,286.61	7,231.94	7,130.58	26.85	28.00	-83.27	-368.27	-733.26	1,042.06	989.31	52.75	19.755			
7,400.00	7,327.43	7,277.35	7,164.49	26.94	28.03	-82.63	-338.29	-736.93	1,047.09	994.22	52.88	19.803			
7,450.00	7,366.13	7,322.53	7,196.29	27.02	28.06	-82.03	-306.39	-740.36	1,051.90	998.90	53.00	19.847			
7,500.00	7,402.54	7,367.50	7,225.89	27.10	28.07	-81.47	-272.70	-743.53	1,056.45	1,003.32	53.13	19.886			
7,550.00	7,436.46	7,412.28	7,253.22	27.18	28.08	-80.95	-237.36	-746.43	1,060.73	1,007.47	53.26	19.918			
7,600.00	7,467.74	7,456.88	7,278.22	27.26	28.09	-80.47	-200.52	-749.06	1,064.70	1,011.31	53.39	19.940			
7,650.00	7,496.23	7,500.00	7,300.17	27.34	28.08	-80.04	-163.49	-751.34	1,068.36	1,014.82	53.54	19.955			
7,700.00	7,521.78	7,545.66	7,320.96	27.43	28.08	-79.65	-122.90	-753.48	1,071.67	1,017.95	53.72	19.951			
7,750.00	7,544.27	7,589.87	7,338.60	27.53	28.06	-79.31	-82.41	-755.26	1,074.62	1,020.71	53.91	19.935			
7,800.00	7,563.59	7,633.99	7,353.69	27.64	28.04	-79.01	-40.99	-756.75	1,077.19	1,023.08	54.12	19.904			
7,850.00	7,579.65	7,678.03	7,366.21	27.76	28.03	-78.77	1.21	-757.94	1,079.38	1,025.02	54.36	19.858			
7,900.00	7,592.37	7,722.01	7,376.11	27.89	28.01	-78.58	44.05	-758.83	1,081.16	1,026.54	54.62	19.794			
7,950.00	7,601.69	7,765.94	7,383.37	28.04	28.00	-78.43	87.37	-759.43	1,082.52	1,027.61	54.91	19.715			
8,000.00	7,607.55	7,809.85	7,387.99	28.20	28.01	-78.34	131.03	-759.72	1,083.47	1,028.24	55.23	19.618			
8,050.00	7,609.94	7,853.75	7,389.93	28.37	28.05	-78.29	174.88	-759.71	1,084.00	1,028.43	55.57	19.506			
8,059.23	7,610.00	7,861.86	7,390.00	28.41	28.06	-78.29	182.98	-759.68	1,084.05	1,028.41	55.64	19.484			
8,100.00	7,610.00	7,902.36	7,390.00	28.56	28.16	-78.29	223.49	-759.46	1,084.25	1,028.28	55.96	19.375			
8,200.00	7,610.00	8,002.36	7,390.00	29.01	28.60	-78.30	323.48	-758.94	1,084.73	1,027.87	56.87	19.074			
8,300.00	7,610.00	8,102.36	7,390.00	29.54	29.15	-78.30	423.48	-758.42	1,085.22	1,027.30	57.93	18.734			
8,400.00	7,610.00	8,202.36	7,390.00	30.15	29.79	-78.31	523.48	-757.89	1,085.71	1,026.58	59.13	18.361			
8,500.00	7,610.00	8,302.36	7,390.00	30.83	30.49	-78.31	623.47	-757.37	1,086.20	1,025.73	60.47	17.962			
8,600.00	7,610.00	8,402.36	7,390.00	31.57	31.26	-78.32	723.47	-756.85	1,086.69	1,024.75	61.94	17.545			

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Total Uncertainty Axis	Separation Factor
8,700.00	7,610.00	8,502.36	7,390.00	32.37	32.08	-78.32	823.47	-756.32	1,087.18	1,023.66		63.52	17.115
8,800.00	7,610.00	8,602.35	7,390.00	33.23	32.95	-78.33	923.47	-755.80	1,087.67	1,022.45		65.22	16.678
8,900.00	7,610.00	8,702.35	7,390.00	34.14	33.87	-78.34	1,023.46	-755.28	1,088.16	1,021.15		67.01	16.239
9,000.00	7,610.00	8,802.35	7,390.00	35.10	34.84	-78.34	1,123.46	-754.75	1,088.65	1,019.75		68.90	15.801
9,100.00	7,610.00	8,902.35	7,390.00	36.10	35.85	-78.35	1,223.46	-754.23	1,089.14	1,018.26		70.87	15.367
9,200.00	7,610.00	9,002.35	7,390.00	37.15	36.89	-78.35	1,323.46	-753.71	1,089.62	1,016.70		72.93	14.941
9,300.00	7,610.00	9,102.35	7,390.00	38.22	37.98	-78.36	1,423.45	-753.18	1,090.11	1,015.06		75.05	14.525
9,400.00	7,610.00	9,202.35	7,390.00	39.33	39.09	-78.36	1,523.45	-752.66	1,090.60	1,013.36		77.25	14.119
9,500.00	7,610.00	9,302.35	7,390.00	40.48	40.23	-78.37	1,623.45	-752.13	1,091.09	1,011.59		79.50	13.725
9,600.00	7,610.00	9,402.34	7,390.00	41.65	41.41	-78.37	1,723.45	-751.61	1,091.58	1,009.77		81.81	13.343
9,700.00	7,610.00	9,502.34	7,390.00	42.84	42.61	-78.38	1,823.44	-751.09	1,092.07	1,007.90		84.17	12.975
9,800.00	7,610.00	9,602.34	7,390.00	44.06	43.83	-78.38	1,923.44	-750.56	1,092.56	1,005.98		86.58	12.620
9,900.00	7,610.00	9,702.34	7,390.00	45.31	45.07	-78.39	2,023.44	-750.04	1,093.05	1,004.02		89.03	12.278
10,000.00	7,610.00	9,802.34	7,390.00	46.57	46.33	-78.39	2,123.44	-749.52	1,093.54	1,002.02		91.52	11.949
10,100.00	7,610.00	9,902.34	7,390.00	47.85	47.61	-78.40	2,223.43	-748.99	1,094.03	999.98		94.05	11.633
10,200.00	7,610.00	10,002.34	7,390.00	49.15	48.91	-78.40	2,323.43	-748.47	1,094.51	997.91		96.61	11.329
10,300.00	7,610.00	10,102.34	7,390.00	50.46	50.23	-78.41	2,423.43	-747.95	1,095.00	995.80		99.20	11.038
10,400.00	7,610.00	10,202.33	7,390.00	51.79	51.56	-78.41	2,523.43	-747.42	1,095.49	993.67		101.82	10.759
10,500.00	7,610.00	10,302.33	7,390.00	53.13	52.90	-78.42	2,623.42	-746.90	1,095.98	991.51		104.47	10.491
10,600.00	7,610.00	10,402.33	7,390.00	54.49	54.25	-78.43	2,723.42	-746.37	1,096.47	989.33		107.15	10.233
10,700.00	7,610.00	10,502.33	7,390.00	55.85	55.62	-78.43	2,823.42	-745.85	1,096.96	987.12		109.84	9.987
10,800.00	7,610.00	10,602.33	7,390.00	57.23	57.00	-78.44	2,923.41	-745.33	1,097.45	984.89		112.56	9.750
10,900.00	7,610.00	10,702.33	7,390.00	58.62	58.38	-78.44	3,023.41	-744.80	1,097.94	982.64		115.30	9.523
11,000.00	7,610.00	10,802.33	7,390.00	60.01	59.78	-78.45	3,123.41	-744.28	1,098.43	980.37		118.05	9.305
11,100.00	7,610.00	10,922.46	7,390.00	61.42	61.46	-78.44	3,243.52	-742.12	1,097.60	976.59		121.01	9.071
11,200.00	7,610.00	11,022.45	7,390.00	62.83	62.86	-78.42	3,343.48	-739.72	1,096.25	972.48		123.78	8.857
11,300.00	7,610.00	11,122.44	7,390.00	64.25	64.27	-78.41	3,443.45	-737.33	1,094.91	968.35		126.56	8.651
11,400.00	7,610.00	11,222.43	7,390.00	65.68	65.68	-78.39	3,543.41	-734.93	1,093.57	964.20		129.36	8.453
11,500.00	7,610.00	11,322.42	7,390.00	67.11	67.10	-78.38	3,643.37	-732.54	1,092.22	960.05		132.18	8.263
11,600.00	7,610.00	11,422.42	7,390.00	68.55	68.53	-78.36	3,743.33	-730.15	1,090.88	955.88		135.00	8.081
11,700.00	7,610.00	11,522.41	7,390.00	70.00	69.96	-78.35	3,843.29	-727.75	1,089.53	951.70		137.84	7.905
11,800.00	7,610.00	11,622.40	7,390.00	71.45	71.40	-78.34	3,943.26	-725.36	1,088.19	947.51		140.68	7.735
11,900.00	7,610.00	11,722.39	7,390.00	72.90	72.85	-78.32	4,043.22	-722.96	1,086.85	943.31		143.54	7.572
12,000.00	7,610.00	11,822.38	7,390.00	74.37	74.29	-78.31	4,143.18	-720.57	1,085.50	939.10		146.40	7.415
12,100.00	7,610.00	11,922.37	7,390.00	75.83	75.75	-78.29	4,243.14	-718.17	1,084.16	934.88		149.28	7.263
12,200.00	7,610.00	12,022.36	7,390.00	77.30	77.21	-78.28	4,343.10	-715.78	1,082.82	930.66		152.16	7.116
12,300.00	7,610.00	12,122.35	7,390.00	78.78	78.67	-78.26	4,443.07	-713.38	1,081.47	926.43		155.05	6.975
12,400.00	7,610.00	12,222.34	7,390.00	80.26	80.13	-78.25	4,543.03	-710.99	1,080.13	922.19		157.94	6.839
12,500.00	7,610.00	12,322.33	7,390.00	81.74	81.60	-78.23	4,642.99	-708.59	1,078.78	917.94		160.85	6.707
12,600.00	7,610.00	12,422.32	7,390.00	83.22	83.08	-78.22	4,742.95	-706.20	1,077.44	913.69		163.76	6.580
12,700.00	7,610.00	12,522.31	7,390.00	84.71	84.55	-78.20	4,842.91	-703.80	1,076.10	909.43		166.67	6.456
12,800.00	7,610.00	12,622.30	7,390.00	86.20	86.03	-78.19	4,942.87	-701.41	1,074.75	905.16		169.59	6.337
12,900.00	7,610.00	12,722.29	7,390.00	87.70	87.52	-78.17	5,042.84	-699.01	1,073.41	900.89		172.52	6.222
13,000.00	7,610.00	12,822.28	7,390.00	89.19	89.00	-78.16	5,142.80	-696.62	1,072.07	896.62		175.45	6.110
13,100.00	7,610.00	12,922.27	7,390.00	90.69	90.49	-78.14	5,242.76	-694.23	1,070.73	892.34		178.39	6.002
13,200.00	7,610.00	13,022.26	7,390.00	92.20	91.98	-78.13	5,342.72	-691.83	1,069.38	888.05		181.33	5.897
13,300.00	7,610.00	13,122.26	7,390.00	93.70	93.47	-78.11	5,442.68	-689.44	1,068.04	883.76		184.28	5.796
13,400.00	7,610.00	13,222.25	7,390.00	95.21	94.97	-78.10	5,542.65	-687.04	1,066.70	879.47		187.23	5.697
13,500.00	7,610.00	13,322.24	7,390.00	96.72	96.47	-78.08	5,642.61	-684.65	1,065.35	875.17		190.18	5.602
13,600.00	7,610.00	13,422.23	7,390.00	98.23	97.97	-78.07	5,742.57	-682.25	1,064.01	870.87		193.14	5.509
13,700.00	7,610.00	13,500.00	7,390.00	99.74	99.13	-78.05	5,820.32	-680.42	1,062.94	867.06		195.88	5.427
13,717.06	7,610.00	13,525.00	7,390.00	100.00	99.51	-78.05	5,845.32	-680.06	1,062.80	866.32		196.48	5.409

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2											Offset Site Error: 0.00 usft		
Survey Program: 0-MWD+HDGM											Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
13,800.00	7,610.00	13,585.85	7,390.00	101.26	100.44	-78.06	5,906.17	-680.08	1,063.66	864.99	198.68	5.354	
13,900.00	7,610.00	13,659.13	7,390.00	102.78	101.57	-78.09	5,979.43	-681.83	1,066.99	865.74	201.25	5.302	
14,000.00	7,610.00	13,732.24	7,390.00	104.30	102.71	-78.14	6,052.44	-685.43	1,072.82	869.10	203.72	5.266	
14,100.00	7,610.00	13,805.08	7,390.00	105.82	103.85	-78.20	6,125.07	-690.88	1,081.14	875.05	206.09	5.246	
14,200.00	7,610.00	13,899.29	7,390.00	107.34	105.35	-78.31	6,218.89	-699.55	1,091.13	882.10	209.03	5.220	
14,300.00	7,610.00	13,998.76	7,390.00	108.86	106.93	-78.42	6,317.94	-708.73	1,101.18	889.04	212.14	5.191	
14,400.00	7,610.00	14,098.24	7,390.00	110.39	108.51	-78.52	6,416.98	-717.92	1,111.23	895.98	215.25	5.163	
14,500.00	7,610.00	14,197.71	7,390.00	111.91	110.10	-78.63	6,516.03	-727.11	1,121.28	902.92	218.36	5.135	
14,600.00	7,610.00	14,297.18	7,390.00	113.44	111.69	-78.73	6,615.08	-736.30	1,131.34	909.86	221.48	5.108	
14,700.00	7,610.00	14,396.65	7,390.00	114.97	113.28	-78.83	6,714.13	-745.49	1,141.40	916.80	224.60	5.082	
14,800.00	7,610.00	14,496.13	7,390.00	116.50	114.87	-78.93	6,813.17	-754.68	1,151.46	923.74	227.72	5.056	
14,823.68	7,610.00	14,519.68	7,390.00	116.86	115.25	-78.95	6,836.62	-756.85	1,153.85	925.39	228.46	5.051 SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4H-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.26	-0.14	-30.21	30.21	29.93	0.28	108.743	
100.00	100.00	100.00	100.00	0.14	0.14	-90.26	-0.14	-30.21	30.21	29.22	0.99	30.370 CC	
200.00	200.00	200.00	200.00	0.50	0.50	-90.26	-0.14	-30.21	30.21	29.20	1.01	29.856	
202.44	202.44	202.44	202.44	0.51	0.51	-90.26	-0.14	-30.21	30.21	28.57	1.70	17.839 ES	
300.00	300.00	299.95	299.93	0.85	0.84	-93.56	-1.88	-30.21	30.27	28.63	2.41	12.901	
400.00	400.00	399.67	399.50	1.21	1.19	-103.21	-7.09	-30.21	31.04	31.85	3.18	11.010	
500.00	500.00	498.25	497.76	1.57	1.54	-115.10	-14.83	-31.66	35.03	39.67	3.97	10.980	
600.00	600.00	596.35	595.32	1.93	1.91	-123.95	-24.23	-35.99	43.64	51.28	4.73	11.837	
700.00	699.98	693.85	691.92	2.27	2.29	80.89	-35.26	-43.15	56.01	64.42	5.40	12.940	
800.00	799.84	792.75	789.67	2.61	2.69	81.40	-47.39	-52.05	69.82	77.15	6.08	13.695	
900.00	899.45	891.76	887.53	2.95	3.09	84.05	-59.55	-60.96	83.23	88.25	6.70	14.180	
987.60	986.42	978.40	973.15	3.26	3.45	87.43	-70.18	-68.75	94.95	89.84	6.79	14.241	
1,000.00	998.71	990.65	985.26	3.31	3.50	87.98	-71.69	-69.86	96.63	102.92	7.52	14.691	
1,100.00	1,097.79	1,089.45	1,082.91	3.68	3.91	91.82	-83.82	-78.75	110.44	116.37	8.27	15.078	
1,200.00	1,196.88	1,188.25	1,180.56	4.06	4.32	94.80	-95.95	-87.64	124.63	130.06	9.03	15.409	
1,300.00	1,295.96	1,287.05	1,278.21	4.44	4.73	97.17	-108.08	-96.53	139.09	143.94	9.80	15.695	
1,400.00	1,395.05	1,385.86	1,375.87	4.83	5.15	99.09	-120.21	-105.42	153.73	157.95	10.57	15.942	
1,500.00	1,494.14	1,484.66	1,473.52	5.23	5.57	100.68	-132.34	-114.31	168.52	172.06	11.35	16.158	
1,600.00	1,593.22	1,583.46	1,571.17	5.62	5.98	102.01	-144.47	-123.21	183.41	186.25	12.14	16.347	
1,700.00	1,692.31	1,682.27	1,668.82	6.02	6.40	103.14	-156.60	-132.10	198.38	200.50	12.92	16.514	
1,800.00	1,791.39	1,781.07	1,766.47	6.42	6.82	104.11	-168.73	-140.99	213.42	214.80	13.71	16.663	
1,900.00	1,890.48	1,879.87	1,864.12	6.83	7.24	104.95	-180.86	-149.88	228.51	229.14	14.51	16.796	
2,000.00	1,989.57	1,978.67	1,961.77	7.23	7.66	105.69	-192.99	-158.77	243.64	243.51	15.30	16.916	
2,100.00	2,088.65	2,077.48	2,059.42	7.63	8.08	106.34	-205.12	-167.66	258.81	257.91	16.10	17.024	
2,200.00	2,187.74	2,176.28	2,157.08	8.04	8.50	106.92	-217.25	-176.56	274.01	272.34	16.89	17.122	
2,300.00	2,286.82	2,275.08	2,254.73	8.45	8.92	107.44	-229.38	-185.45	289.23	286.78	17.69	17.212	
2,400.00	2,385.91	2,373.88	2,352.38	8.85	9.34	107.91	-241.51	-194.34	304.47	301.24	18.49	17.294	
2,500.00	2,485.00	2,472.69	2,450.03	9.26	9.76	108.33	-253.63	-203.23	319.73	315.72	19.29	17.369	
2,600.00	2,584.08	2,571.49	2,547.68	9.67	10.18	108.71	-265.76	-212.12	335.01	330.21	20.09	17.438	
2,700.00	2,683.17	2,670.29	2,645.33	10.08	10.60	109.06	-277.89	-221.01	350.29	344.71	20.89	17.503	
2,800.00	2,782.26	2,769.09	2,742.98	10.49	11.02	109.38	-290.02	-229.91	365.59	359.22	21.69	17.562	
2,900.00	2,881.34	2,867.90	2,840.63	10.90	11.44	109.68	-302.15	-238.80	380.91	373.73	22.49	17.617	
3,000.00	2,980.43	2,966.70	2,938.29	11.30	11.86	109.95	-314.28	-247.69	396.23	388.26	23.29	17.669	
3,100.00	3,079.51	3,065.50	3,035.94	11.71	12.28	110.20	-326.41	-256.58	411.55	402.79	24.09	17.717	
3,200.00	3,178.60	3,164.30	3,133.59	12.12	12.71	110.44	-338.54	-265.47	426.89	417.33	24.90	17.762	
3,300.00	3,277.69	3,263.11	3,231.24	12.54	13.13	110.66	-350.67	-274.36	442.23	431.88	25.70	17.804	
3,400.00	3,376.77	3,361.91	3,328.89	12.95	13.55	110.86	-362.80	-283.26	457.58	446.43	26.50	17.844	
3,500.00	3,475.86	3,460.71	3,426.54	13.36	13.97	111.05	-374.93	-292.15	472.93	460.98	27.31	17.882	
3,600.00	3,574.94	3,559.52	3,524.19	13.77	14.39	111.23	-387.06	-301.04	488.29	475.54	28.11	17.917	
3,700.00	3,674.03	3,658.32	3,621.84	14.18	14.81	111.39	-399.19	-309.93	503.65	490.10	28.91	17.950	
3,800.00	3,773.12	3,757.12	3,719.50	14.59	15.23	111.55	-411.32	-318.82	519.02	504.67	29.72	17.982	
3,900.00	3,872.20	3,855.92	3,817.15	15.00	15.65	111.70	-423.45	-327.71	534.39	519.24	30.52	18.012	
4,000.00	3,971.29	3,954.73	3,914.80	15.41	16.08	111.84	-435.58	-336.61	549.76	533.81	31.33	18.040	
4,100.00	4,070.37	4,053.53	4,012.45	15.82	16.50	111.97	-447.71	-345.50	565.13	548.38	32.13	18.067	
4,200.00	4,169.46	4,152.33	4,110.10	16.24	16.92	112.10	-459.84	-354.39	580.51	562.96	32.94	18.093	
4,300.00	4,268.55	4,251.13	4,207.75	16.65	17.34	112.22	-471.97	-363.28	595.89	577.54	33.74	18.117	
4,400.00	4,367.63	4,349.94	4,305.40	17.06	17.76	112.33	-484.10	-372.17	611.28	592.12	34.55	18.140	
4,500.00	4,466.72	4,448.74	4,403.05	17.47	18.18	112.44	-496.23	-381.07	626.66	606.70	35.35	18.163	
4,600.00	4,565.81	4,547.54	4,500.71	17.88	18.61	112.54	-508.36	-389.96	642.05	621.07	36.20	18.186	
4,700.00	4,664.89	4,645.61	4,604.60	18.30	19.05	112.66	-521.02	-399.24	657.27	633.27	37.12	18.061	
4,800.00	4,763.98	4,745.66	4,720.82	18.71	19.52	113.03	-532.14	-407.39	670.39				
4,900.00	4,863.06	4,844.74	4,837.90	19.12	19.95	113.69	-539.44	-412.74	680.86				

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4H-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.00	4,962.15	5,004.51	4,955.23	19.53	20.35	114.64	-542.85	-415.24	688.78	649.96	38.82	17.743		
5,100.00	5,061.24	5,110.52	5,061.24	19.95	20.66	115.69	-543.14	-415.45	694.75	655.20	39.55	17.566		
5,152.83	5,113.58	5,162.86	5,113.58	20.16	20.81	116.21	-543.14	-415.45	697.89	657.97	39.93	17.480		
5,200.00	5,160.37	5,209.66	5,160.37	20.36	20.94	116.70	-543.14	-415.45	700.58	660.32	40.26	17.403		
5,300.00	5,259.85	5,309.14	5,259.85	20.75	21.22	117.51	-543.14	-415.45	705.21	664.27	40.94	17.225		
5,400.00	5,359.63	5,408.91	5,359.63	21.11	21.51	118.04	-543.14	-415.45	708.31	666.70	41.60	17.025		
5,500.00	5,459.57	5,508.86	5,459.57	21.46	21.80	118.29	-543.14	-415.45	709.80	667.55	42.25	16.801		
5,540.43	5,500.00	5,549.28	5,500.00	21.58	21.91	-90.33	-543.14	-415.45	709.93	667.44	42.50	16.706		
5,600.00	5,559.57	5,608.85	5,559.57	21.76	22.09	-90.33	-543.14	-415.45	709.93	667.08	42.85	16.568		
5,700.00	5,659.57	5,708.85	5,659.57	22.05	22.38	-90.33	-543.14	-415.45	709.93	666.48	43.45	16.340		
5,800.00	5,759.57	5,808.85	5,759.57	22.35	22.67	-90.33	-543.14	-415.45	709.93	665.88	44.05	16.116		
5,900.00	5,859.57	5,908.85	5,859.57	22.65	22.97	-90.33	-543.14	-415.45	709.93	665.28	44.66	15.898		
6,000.00	5,959.57	6,008.85	5,959.57	22.95	23.27	-90.33	-543.14	-415.45	709.93	664.67	45.26	15.684		
6,100.00	6,059.57	6,108.85	6,059.57	23.26	23.57	-90.33	-543.14	-415.45	709.93	664.06	45.88	15.475		
6,200.00	6,159.57	6,208.85	6,159.57	23.56	23.87	-90.33	-543.14	-415.45	709.93	663.44	46.49	15.270		
6,300.00	6,259.57	6,308.85	6,259.57	23.87	24.17	-90.33	-543.14	-415.45	709.93	662.82	47.11	15.070		
6,400.00	6,359.57	6,408.85	6,359.57	24.17	24.48	-90.33	-543.14	-415.45	709.93	662.20	47.73	14.874		
6,500.00	6,459.57	6,508.85	6,459.57	24.48	24.78	-90.33	-543.14	-415.45	709.93	661.58	48.35	14.682		
6,600.00	6,559.57	6,608.85	6,559.57	24.79	25.09	-90.33	-543.14	-415.45	709.93	660.95	48.98	14.495		
6,700.00	6,659.57	6,708.85	6,659.57	25.10	25.40	-90.33	-543.14	-415.45	709.93	660.33	49.61	14.311		
6,800.00	6,759.57	6,808.85	6,759.57	25.42	25.71	-90.33	-543.14	-415.45	709.93	659.70	50.24	14.132		
6,866.64	6,826.21	6,875.57	6,826.21	25.63	25.91	-90.11	-540.41	-415.46	709.93	659.28	50.65	14.016		
6,900.00	6,859.57	6,908.65	6,859.08	25.73	26.00	-89.82	-536.77	-415.46	709.94	659.08	50.85	13.960		
6,934.23	6,893.80	6,942.16	6,892.18	25.84	26.09	-89.40	-531.54	-415.47	709.98	658.93	51.06	13.906		
6,950.00	6,909.57	6,957.45	6,907.19	25.89	26.13	-89.76	-528.64	-415.48	710.03	658.88	51.15	13.882		
7,000.00	6,959.48	7,005.57	6,953.97	26.04	26.25	-89.05	-517.43	-415.50	710.27	658.84	51.42	13.812		
7,050.00	7,009.07	7,053.13	6,999.38	26.18	26.36	-88.35	-503.28	-415.53	710.65	658.98	51.68	13.752		
7,100.00	7,058.10	7,100.00	7,043.10	26.31	26.46	-87.67	-486.43	-415.57	711.18	659.27	51.91	13.701		
7,150.00	7,106.32	7,146.74	7,085.52	26.44	26.54	-86.99	-466.81	-415.60	711.83	659.71	52.12	13.658		
7,200.00	7,153.51	7,192.85	7,126.02	26.55	26.62	-86.33	-444.79	-415.65	712.60	660.29	52.31	13.623		
7,250.00	7,199.44	7,238.52	7,164.66	26.66	26.69	-85.70	-420.45	-415.70	713.48	661.00	52.48	13.596		
7,300.00	7,243.88	7,283.79	7,201.35	26.76	26.76	-85.08	-393.94	-415.75	714.45	661.82	52.63	13.575		
7,350.00	7,286.61	7,328.69	7,236.01	26.85	26.82	-84.49	-365.42	-415.81	715.49	662.72	52.77	13.559		
7,400.00	7,327.43	7,373.25	7,268.57	26.94	26.87	-83.92	-335.02	-415.87	716.60	663.71	52.89	13.548		
7,450.00	7,366.13	7,417.48	7,298.97	27.02	26.92	-83.39	-302.89	-415.94	717.76	664.74	53.01	13.539		
7,500.00	7,402.54	7,461.42	7,327.15	27.10	26.97	-82.88	-269.18	-416.00	718.94	665.82	53.13	13.532		
7,550.00	7,436.46	7,505.10	7,353.05	27.18	27.02	-82.41	-234.03	-416.08	720.15	666.90	53.24	13.526		
7,600.00	7,467.74	7,550.00	7,377.40	27.26	27.07	-81.96	-196.31	-416.15	721.36	667.98	53.37	13.516		
7,650.00	7,496.23	7,591.75	7,397.88	27.34	27.12	-81.57	-159.94	-416.23	722.55	669.05	53.49	13.507		
7,700.00	7,521.78	7,634.77	7,416.73	27.43	27.17	-81.20	-121.27	-416.30	723.72	670.08	53.64	13.492		
7,750.00	7,544.27	7,677.63	7,433.16	27.53	27.23	-80.87	-81.70	-416.38	724.85	671.04	53.80	13.472		
7,800.00	7,563.59	7,720.34	7,447.15	27.64	27.30	-80.58	-41.35	-416.47	725.93	671.94	53.99	13.445		
7,850.00	7,579.65	7,762.93	7,458.69	27.76	27.38	-80.34	-0.36	-416.55	726.95	672.74	54.20	13.412		
7,900.00	7,592.37	7,805.42	7,467.75	27.89	27.48	-80.13	41.15	-416.63	727.90	673.45	54.44	13.370		
7,950.00	7,601.69	7,850.00	7,474.59	28.04	27.59	-79.96	85.19	-416.72	728.77	674.05	54.72	13.317		
8,000.00	7,607.55	7,890.19	7,478.40	28.20	27.70	-79.84	125.20	-416.80	729.55	674.54	55.02	13.261		
8,050.00	7,609.94	7,932.51	7,479.98	28.37	27.84	-79.76	167.49	-416.89	730.25	674.90	55.35	13.194		
8,059.23	7,610.00	7,940.73	7,480.00	28.41	27.86	-79.75	175.71	-416.91	730.36	674.95	55.41	13.180		
8,100.00	7,610.00	7,981.50	7,480.00	28.56	28.01	-79.75	216.47	-416.99	730.86	675.11	55.74	13.111		
8,200.00	7,610.00	8,081.49	7,480.00	29.01	28.44	-79.77	316.46	-417.19	732.06	675.41	56.66	12.921		
8,300.00	7,610.00	8,181.48	7,480.00	29.54	28.96	-79.79	416.46	-417.39	733.27	675.55	57.72	12.704		
8,400.00	7,610.00	8,281.48	7,480.00	30.15	29.57	-79.80	516.45	-417.59	734.47	675.54	58.93	12.463		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4H-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
8,500.00	7,610.00	8,381.47	7,480.00	30.83	30.24	-79.82	616.44	-417.80	735.68	675.40	60.28	12.204	
8,600.00	7,610.00	8,481.46	7,480.00	31.57	30.99	-79.84	716.43	-418.00	736.89	675.12	61.76	11.931	
8,700.00	7,610.00	8,581.45	7,480.00	32.37	31.80	-79.85	816.42	-418.20	738.09	674.73	63.36	11.649	
8,800.00	7,610.00	8,681.45	7,480.00	33.23	32.67	-79.87	916.42	-418.40	739.30	674.23	65.07	11.362	
8,900.00	7,610.00	8,781.44	7,480.00	34.14	33.59	-79.89	1,016.41	-418.61	740.50	673.63	66.88	11.072	
9,000.00	7,610.00	8,881.43	7,480.00	35.10	34.56	-79.90	1,116.40	-418.81	741.71	672.93	68.78	10.783	
9,100.00	7,610.00	8,981.42	7,480.00	36.10	35.57	-79.92	1,216.39	-419.01	742.92	672.14	70.78	10.497	
9,200.00	7,610.00	9,081.42	7,480.00	37.15	36.62	-79.94	1,316.39	-419.21	744.12	671.27	72.85	10.215	
9,300.00	7,610.00	9,181.41	7,480.00	38.22	37.71	-79.95	1,416.38	-419.42	745.33	670.34	74.99	9.939	
9,400.00	7,610.00	9,281.40	7,480.00	39.33	38.83	-79.97	1,516.37	-419.62	746.54	669.33	77.21	9.669	
9,500.00	7,610.00	9,381.39	7,480.00	40.48	39.99	-79.99	1,616.36	-419.82	747.74	668.26	79.48	9.408	
9,600.00	7,610.00	9,481.39	7,480.00	41.65	41.17	-80.00	1,716.36	-420.02	748.95	667.14	81.81	9.155	
9,700.00	7,610.00	9,581.38	7,480.00	42.84	42.38	-80.02	1,816.35	-420.23	750.16	665.96	84.19	8.910	
9,800.00	7,610.00	9,681.37	7,480.00	44.06	43.61	-80.04	1,916.34	-420.43	751.36	664.74	86.62	8.674	
9,900.00	7,610.00	9,781.36	7,480.00	45.31	44.87	-80.05	2,016.33	-420.63	752.57	663.48	89.09	8.447	
10,000.00	7,610.00	9,881.36	7,480.00	46.57	46.14	-80.07	2,116.32	-420.83	753.78	662.17	91.61	8.228	
10,100.00	7,610.00	9,981.35	7,480.00	47.85	47.43	-80.08	2,216.32	-421.04	754.98	660.83	94.16	8.018	
10,200.00	7,610.00	10,081.34	7,480.00	49.15	48.74	-80.10	2,316.31	-421.24	756.19	659.45	96.74	7.817	
10,300.00	7,610.00	10,181.33	7,480.00	50.46	50.07	-80.12	2,416.30	-421.44	757.40	658.04	99.35	7.623	
10,400.00	7,610.00	10,281.33	7,480.00	51.79	51.41	-80.13	2,516.29	-421.64	758.60	656.60	102.00	7.437	
10,500.00	7,610.00	10,381.32	7,480.00	53.13	52.77	-80.15	2,616.29	-421.84	759.81	655.14	104.67	7.259	
10,600.00	7,610.00	10,481.31	7,480.00	54.49	54.13	-80.16	2,716.28	-422.05	761.02	653.65	107.37	7.088	
10,700.00	7,610.00	10,581.30	7,480.00	55.85	55.51	-80.18	2,816.27	-422.25	762.23	652.14	110.08	6.924	
10,800.00	7,610.00	10,681.30	7,480.00	57.23	56.90	-80.19	2,916.26	-422.45	763.43	650.61	112.83	6.767	
10,900.00	7,610.00	10,781.29	7,480.00	58.62	58.30	-80.21	3,016.25	-422.65	764.64	649.05	115.59	6.615	
11,000.00	7,610.00	10,881.28	7,480.00	60.01	59.71	-80.23	3,116.25	-422.86	765.85	647.48	118.36	6.470	
11,100.00	7,610.00	10,981.27	7,480.00	61.42	61.12	-80.24	3,216.24	-423.06	767.05	645.90	121.16	6.331	
11,200.00	7,610.00	11,081.27	7,480.00	62.83	62.55	-80.26	3,316.23	-423.26	768.26	644.29	123.97	6.197	
11,300.00	7,610.00	11,181.26	7,480.00	64.25	63.98	-80.27	3,416.22	-423.46	769.47	642.67	126.80	6.068	
11,400.00	7,610.00	11,281.25	7,480.00	65.68	65.42	-80.29	3,516.22	-423.67	770.68	641.04	129.64	5.945	
11,500.00	7,610.00	11,381.24	7,480.00	67.11	66.87	-80.30	3,616.21	-423.87	771.89	639.39	132.49	5.826	
11,600.00	7,610.00	11,481.24	7,480.00	68.55	68.32	-80.32	3,716.20	-424.07	773.09	637.73	135.36	5.711	
11,700.00	7,610.00	11,581.23	7,480.00	70.00	69.77	-80.33	3,816.19	-424.27	774.30	636.06	138.24	5.601	
11,800.00	7,610.00	11,681.22	7,480.00	71.45	71.24	-80.35	3,916.19	-424.48	775.51	634.38	141.13	5.495	
11,900.00	7,610.00	11,781.21	7,480.00	72.90	72.71	-80.36	4,016.18	-424.68	776.72	632.69	144.03	5.393	
12,000.00	7,610.00	11,881.21	7,480.00	74.37	74.18	-80.38	4,116.17	-424.88	777.92	630.99	146.94	5.294	
12,100.00	7,610.00	11,981.20	7,480.00	75.83	75.66	-80.39	4,216.16	-425.08	779.13	629.28	149.85	5.199	
12,200.00	7,610.00	12,081.19	7,480.00	77.30	77.14	-80.41	4,316.15	-425.28	780.34	627.56	152.78	5.108	
12,300.00	7,610.00	12,181.18	7,480.00	78.78	78.62	-80.42	4,416.15	-425.49	781.55	625.83	155.71	5.019	
12,400.00	7,610.00	12,281.18	7,480.00	80.26	80.11	-80.44	4,516.14	-425.69	782.76	624.10	158.66	4.934	
12,500.00	7,610.00	12,381.17	7,480.00	81.74	81.61	-80.45	4,616.13	-425.89	783.97	622.36	161.61	4.851	
12,600.00	7,610.00	12,481.16	7,480.00	83.22	83.10	-80.47	4,716.12	-426.09	785.17	620.61	164.56	4.771	
12,700.00	7,610.00	12,581.15	7,480.00	84.71	84.60	-80.48	4,816.12	-426.30	786.38	618.86	167.53	4.694	
12,800.00	7,610.00	12,681.15	7,480.00	86.20	86.10	-80.50	4,916.11	-426.50	787.59	617.09	170.50	4.619	
12,900.00	7,610.00	12,781.14	7,480.00	87.70	87.61	-80.51	5,016.10	-426.70	788.80	615.33	173.47	4.547	
13,000.00	7,610.00	12,881.13	7,480.00	89.19	89.12	-80.53	5,116.09	-426.90	790.01	613.56	176.45	4.477	
13,100.00	7,610.00	12,981.12	7,480.00	90.69	90.63	-80.54	5,216.09	-427.11	791.22	611.78	179.44	4.409	
13,200.00	7,610.00	13,081.12	7,480.00	92.20	92.14	-80.56	5,316.08	-427.31	792.42	610.00	182.43	4.344	
13,300.00	7,610.00	13,181.11	7,480.00	93.70	93.66	-80.57	5,416.07	-427.51	793.63	608.21	185.42	4.280	
13,400.00	7,610.00	13,281.10	7,480.00	95.21	95.17	-80.59	5,516.06	-427.71	794.84	606.42	188.43	4.218	
13,500.00	7,610.00	13,381.09	7,480.00	96.72	96.69	-80.60	5,616.05	-427.92	796.05	604.62	191.43	4.158	
13,600.00	7,610.00	13,481.09	7,480.00	98.23	98.22	-80.61	5,716.05	-428.12	797.26	602.82	194.44	4.100	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4H-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
13,700.00	7,610.00	13,581.08	7,480.00	99.74	99.74	-80.63	5,816.04	-428.32	798.47	601.02	197.45	4.044		
13,800.00	7,610.00	13,681.07	7,480.00	101.26	101.27	-80.64	5,916.03	-428.52	799.68	599.21	200.47	3.989		
13,900.00	7,610.00	13,781.06	7,480.00	102.78	102.79	-80.66	6,016.02	-428.73	800.89	597.40	203.49	3.936		
14,000.00	7,610.00	13,881.06	7,480.00	104.30	104.32	-80.67	6,116.02	-428.93	802.09	595.58	206.51	3.884		
14,100.00	7,610.00	13,981.05	7,480.00	105.82	105.85	-80.69	6,216.01	-429.13	803.30	593.76	209.54	3.834		
14,200.00	7,610.00	14,081.04	7,480.00	107.34	107.39	-80.70	6,316.00	-429.33	804.51	591.94	212.57	3.785		
14,300.00	7,610.00	14,181.03	7,480.00	108.86	108.92	-80.71	6,415.99	-429.53	805.72	590.12	215.61	3.737		
14,400.00	7,610.00	14,281.03	7,480.00	110.39	110.46	-80.73	6,515.99	-429.74	806.93	588.29	218.64	3.691		
14,500.00	7,610.00	14,381.02	7,480.00	111.91	111.99	-80.74	6,615.98	-429.94	808.14	586.46	221.68	3.645		
14,600.00	7,610.00	14,481.01	7,480.00	113.44	113.53	-80.76	6,715.97	-430.14	809.35	584.62	224.73	3.601		
14,700.00	7,610.00	14,654.16	7,480.00	114.97	116.14	-80.71	6,888.94	-424.11	807.57	579.63	227.94	3.543		
14,800.00	7,610.00	14,703.04	7,480.00	116.50	116.84	-80.65	6,937.55	-419.01	800.63	569.73	230.90	3.467		
14,811.90	7,610.00	14,703.04	7,480.00	116.68	116.84	-80.65	6,937.55	-419.01	800.55	569.40	231.14	3.463		
14,823.68	7,610.00	14,703.04	7,480.00	116.86	116.84	-80.65	6,937.55	-419.01	800.63	569.30	231.34	3.461 SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4I-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.24	-0.08	-20.14	20.14				
100.00	100.00	100.00	100.00	0.14	0.14	-90.24	-0.08	-20.14	20.14	19.86	0.28	72.966	
200.00	200.00	200.00	200.00	0.50	0.50	-90.24	-0.08	-20.14	20.14	19.15	0.99	20.283	
300.00	300.00	300.00	300.00	0.85	0.85	-90.24	-0.08	-20.14	20.14	18.43	1.71	11.779	
352.10	352.10	352.11	352.10	1.04	1.03	-91.59	-0.56	-20.13	20.13	18.06	2.08	9.704 CC	
400.00	400.00	399.98	399.96	1.21	1.20	-95.20	-1.83	-20.09	20.17	17.76	2.41	8.369 ES	
500.00	500.00	499.71	499.55	1.57	1.54	-109.44	-7.04	-19.95	21.16	18.04	3.12	6.791	
600.00	600.00	598.96	598.42	1.93	1.89	-128.48	-15.66	-19.71	25.22	21.36	3.87	6.522	
700.00	699.98	698.07	696.83	2.27	2.26	66.54	-27.37	-19.38	32.96	28.35	4.61	7.155	
800.00	799.84	797.74	795.74	2.61	2.64	62.06	-39.68	-19.04	40.55	35.26	5.29	7.661	
900.00	899.45	897.55	894.78	2.95	3.02	62.68	-52.02	-18.70	46.61	40.62	5.99	7.781	
987.60	986.42	985.00	981.57	3.26	3.37	66.00	-62.82	-18.40	50.69	44.07	6.62	7.659	
1,000.00	998.71	997.38	993.85	3.31	3.42	66.63	-64.35	-18.36	51.20	44.50	6.71	7.633	
1,100.00	1,097.79	1,097.19	1,092.89	3.68	3.81	71.28	-76.68	-18.02	55.57	48.12	7.45	7.458	
1,200.00	1,196.88	1,197.00	1,191.94	4.06	4.21	75.23	-89.02	-17.67	60.25	52.04	8.21	7.338	
1,300.00	1,295.96	1,296.81	1,290.98	4.44	4.60	78.59	-101.35	-17.33	65.17	56.19	8.98	7.254	
1,400.00	1,395.05	1,396.62	1,390.03	4.83	5.00	81.48	-113.69	-16.99	70.29	60.52	9.77	7.197	
1,500.00	1,494.14	1,496.43	1,489.07	5.23	5.40	83.97	-126.02	-16.65	75.55	65.00	10.55	7.158	
1,600.00	1,593.22	1,596.25	1,588.12	5.62	5.80	86.13	-138.35	-16.31	80.95	69.60	11.35	7.133	
1,700.00	1,692.31	1,696.06	1,687.16	6.02	6.20	88.02	-150.69	-15.96	86.44	74.29	12.15	7.116	
1,800.00	1,791.39	1,795.87	1,786.21	6.42	6.60	89.68	-163.02	-15.62	92.02	79.07	12.95	7.107	
1,900.00	1,890.48	1,895.68	1,885.25	6.83	7.01	91.15	-175.35	-15.28	97.66	83.91	13.75	7.102	
2,000.00	1,989.57	1,995.49	1,984.30	7.23	7.41	92.46	-187.69	-14.94	103.36	88.80	14.56	7.101	
2,100.00	2,088.65	2,095.30	2,083.35	7.63	7.81	93.64	-200.02	-14.60	109.11	93.75	15.36	7.103	
2,200.00	2,187.74	2,195.11	2,182.39	8.04	8.21	94.69	-212.36	-14.25	114.90	98.73	16.17	7.106	
2,300.00	2,286.82	2,294.92	2,281.44	8.45	8.62	95.64	-224.69	-13.91	120.72	103.75	16.98	7.111	
2,400.00	2,385.91	2,394.73	2,380.48	8.85	9.02	96.51	-237.02	-13.57	126.58	108.80	17.78	7.117	
2,500.00	2,485.00	2,494.54	2,479.53	9.26	9.42	97.30	-249.36	-13.23	132.46	113.87	18.59	7.124	
2,600.00	2,584.08	2,594.36	2,578.57	9.67	9.83	98.02	-261.69	-12.89	138.37	118.96	19.40	7.131	
2,700.00	2,683.17	2,694.17	2,677.62	10.08	10.23	98.68	-274.02	-12.54	144.29	124.08	20.21	7.138	
2,800.00	2,782.26	2,793.98	2,776.66	10.49	10.63	99.29	-286.36	-12.20	150.23	129.21	21.02	7.146	
2,900.00	2,881.34	2,893.79	2,875.71	10.90	11.04	99.86	-298.69	-11.86	156.19	134.36	21.83	7.154	
3,000.00	2,980.43	2,993.60	2,974.75	11.30	11.44	100.38	-311.02	-11.52	162.17	139.52	22.64	7.161	
3,100.00	3,079.51	3,093.41	3,073.80	11.71	11.84	100.86	-323.36	-11.18	168.15	144.69	23.46	7.169	
3,200.00	3,178.60	3,193.22	3,172.84	12.12	12.25	101.31	-335.69	-10.84	174.15	149.88	24.27	7.176	
3,300.00	3,277.69	3,293.03	3,271.89	12.54	12.65	101.74	-348.03	-10.49	180.15	155.07	25.08	7.184	
3,400.00	3,376.77	3,392.84	3,370.94	12.95	13.06	102.13	-360.36	-10.15	186.17	160.28	25.89	7.191	
3,500.00	3,475.86	3,492.65	3,469.98	13.36	13.46	102.50	-372.69	-9.81	192.19	165.49	26.70	7.198	
3,600.00	3,574.94	3,592.47	3,569.03	13.77	13.86	102.85	-385.03	-9.47	198.22	170.71	27.51	7.205	
3,700.00	3,674.03	3,692.28	3,668.07	14.18	14.27	103.17	-397.36	-9.13	204.26	175.93	28.32	7.212	
3,800.00	3,773.12	3,792.09	3,767.12	14.59	14.67	103.48	-409.69	-8.78	210.30	181.17	29.13	7.218	
3,900.00	3,872.20	3,891.90	3,866.16	15.00	15.08	103.77	-422.03	-8.44	216.35	186.41	29.95	7.225	
4,000.00	3,971.29	3,991.71	3,965.21	15.41	15.48	104.05	-434.36	-8.10	222.41	191.65	30.76	7.231	
4,100.00	4,070.37	4,091.52	4,064.25	15.82	15.88	104.31	-446.69	-7.76	228.47	196.90	31.57	7.237	
4,200.00	4,169.46	4,191.33	4,163.30	16.24	16.29	104.56	-459.03	-7.42	234.53	202.15	32.38	7.243	
4,300.00	4,268.55	4,291.14	4,262.34	16.65	16.69	104.79	-471.36	-7.07	240.60	207.41	33.19	7.248	
4,400.00	4,367.63	4,390.95	4,361.39	17.06	17.10	105.01	-483.70	-6.73	246.67	212.67	34.00	7.254	
4,500.00	4,466.72	4,490.76	4,460.44	17.47	17.50	105.22	-496.03	-6.39	252.75	217.93	34.82	7.259	
4,600.00	4,565.81	4,590.58	4,559.48	17.88	17.90	105.43	-508.36	-6.05	258.82	223.20	35.63	7.265	
4,700.00	4,664.89	4,690.62	4,658.76	18.30	18.31	105.63	-520.70	-5.71	264.90	228.46	36.44	7.269	
4,800.00	4,763.98	4,792.21	4,759.82	18.71	18.71	106.28	-531.00	-5.42	270.57	233.32	37.25	7.263	
4,900.00	4,863.06	4,893.54	4,860.92	19.12	19.08	107.65	-537.71	-5.23	275.68	237.65	38.03	7.249	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4I-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.00	4,962.15	4,994.35	4,961.68	19.53	19.43	109.67	-540.83	-5.15	280.48	241.71	38.78	7.233		
5,100.00	5,061.24	5,093.91	5,061.24	19.95	19.73	112.16	-541.08	-5.14	285.36	245.91	39.45	7.233		
5,152.83	5,113.58	5,146.25	5,113.58	20.16	19.88	113.47	-541.08	-5.14	288.15	248.35	39.80	7.240		
5,200.00	5,160.37	5,193.04	5,160.37	20.36	20.02	114.59	-541.08	-5.14	290.60	250.49	40.11	7.246		
5,300.00	5,259.85	5,292.52	5,259.85	20.75	20.31	116.44	-541.08	-5.14	294.98	254.23	40.75	7.239		
5,400.00	5,359.63	5,392.30	5,359.63	21.11	20.60	117.64	-541.08	-5.14	298.00	256.62	41.38	7.202		
5,500.00	5,459.57	5,492.24	5,459.57	21.46	20.90	118.20	-541.08	-5.14	299.48	257.47	42.01	7.129		
5,540.43	5,500.00	5,532.67	5,500.00	21.58	21.02	-90.40	-541.08	-5.14	299.62	257.36	42.26	7.090		
5,600.00	5,559.57	5,592.24	5,559.57	21.76	21.20	-90.40	-541.08	-5.14	299.62	257.00	42.61	7.031		
5,700.00	5,659.57	5,692.24	5,659.57	22.05	21.50	-90.40	-541.08	-5.14	299.62	256.40	43.21	6.933		
5,800.00	5,759.57	5,792.24	5,759.57	22.35	21.80	-90.40	-541.08	-5.14	299.62	255.80	43.82	6.838		
5,900.00	5,859.57	5,892.24	5,859.57	22.65	22.11	-90.40	-541.08	-5.14	299.62	255.19	44.42	6.744		
6,000.00	5,959.57	5,992.24	5,959.57	22.95	22.41	-90.40	-541.08	-5.14	299.62	254.58	45.04	6.653		
6,100.00	6,059.57	6,092.24	6,059.57	23.26	22.72	-90.40	-541.08	-5.14	299.62	253.97	45.65	6.564		
6,200.00	6,159.57	6,192.24	6,159.57	23.56	23.03	-90.40	-541.08	-5.14	299.62	253.35	46.27	6.476		
6,300.00	6,259.57	6,292.24	6,259.57	23.87	23.34	-90.40	-541.08	-5.14	299.62	252.73	46.88	6.391		
6,400.00	6,359.57	6,392.24	6,359.57	24.17	23.65	-90.40	-541.08	-5.14	299.62	252.11	47.51	6.307		
6,500.00	6,459.57	6,492.24	6,459.57	24.48	23.97	-90.40	-541.08	-5.14	299.62	251.49	48.13	6.225		
6,600.00	6,559.57	6,592.24	6,559.57	24.79	24.28	-90.40	-541.08	-5.14	299.62	250.86	48.76	6.145		
6,700.00	6,659.57	6,692.24	6,659.57	25.10	24.60	-90.40	-541.08	-5.14	299.62	250.23	49.39	6.067		
6,774.61	6,734.18	6,766.92	6,734.18	25.34	24.83	-89.91	-538.53	-5.14	299.61	249.77	49.84	6.011		
6,800.00	6,759.57	6,792.14	6,759.26	25.42	24.90	-89.42	-535.97	-5.13	299.62	249.64	49.98	5.994		
6,900.00	6,859.57	6,888.86	6,854.22	25.73	25.16	-85.99	-517.99	-5.10	300.36	249.91	50.44	5.954		
6,934.23	6,893.80	6,920.64	6,884.79	25.84	25.24	-84.34	-509.30	-5.09	301.16	250.61	50.55	5.958		
6,950.00	6,909.57	6,935.05	6,898.52	25.89	25.27	-84.08	-504.92	-5.08	301.67	251.08	50.59	5.963		
7,000.00	6,959.48	6,980.23	6,940.94	26.04	25.38	-81.46	-489.40	-5.06	303.73	253.05	50.67	5.994		
7,050.00	7,009.07	7,024.66	6,981.63	26.18	25.47	-78.93	-471.56	-5.03	306.41	255.73	50.68	6.046		
7,100.00	7,058.10	7,068.42	7,020.54	26.31	25.56	-76.49	-451.56	-5.00	309.65	259.03	50.61	6.118		
7,150.00	7,106.32	7,111.54	7,057.62	26.44	25.65	-74.17	-429.55	-4.97	313.35	262.89	50.46	6.210		
7,200.00	7,153.51	7,154.09	7,092.84	26.55	25.74	-71.96	-405.70	-4.93	317.44	267.22	50.23	6.320		
7,250.00	7,199.44	7,196.11	7,126.18	26.66	25.82	-69.89	-380.13	-4.89	321.83	271.92	49.91	6.448		
7,300.00	7,243.88	7,237.64	7,157.60	26.76	25.90	-67.94	-352.98	-4.85	326.42	276.90	49.52	6.591		
7,350.00	7,286.61	7,278.74	7,187.09	26.85	25.98	-66.13	-324.36	-4.80	331.15	282.07	49.07	6.748		
7,400.00	7,327.43	7,319.42	7,214.62	26.94	26.06	-64.46	-294.41	-4.76	335.92	287.35	48.57	6.916		
7,450.00	7,366.13	7,359.75	7,240.18	27.02	26.14	-62.92	-263.24	-4.71	340.67	292.63	48.04	7.091		
7,500.00	7,402.54	7,400.00	7,263.91	27.10	26.23	-61.52	-230.73	-4.66	345.33	297.83	47.50	7.270		
7,550.00	7,436.46	7,439.43	7,285.35	27.18	26.32	-60.25	-197.64	-4.61	349.83	302.89	46.94	7.452		
7,600.00	7,467.74	7,478.86	7,304.94	27.26	26.42	-59.12	-163.42	-4.55	354.12	307.71	46.41	7.630		
7,650.00	7,496.23	7,518.06	7,322.51	27.34	26.52	-58.11	-128.40	-4.50	358.14	312.23	45.92	7.800		
7,700.00	7,521.78	7,557.04	7,338.06	27.43	26.62	-57.22	-92.65	-4.44	361.86	316.39	45.48	7.957		
7,750.00	7,544.27	7,600.00	7,352.92	27.53	26.75	-56.40	-52.35	-4.38	365.27	320.06	45.21	8.079		
7,800.00	7,563.59	7,634.50	7,363.08	27.64	26.86	-55.81	-19.39	-4.33	368.23	323.40	44.83	8.214		
7,850.00	7,579.65	7,673.03	7,372.54	27.76	26.98	-55.28	17.96	-4.27	370.81	326.16	44.65	8.305		
7,900.00	7,592.37	7,711.45	7,379.97	27.89	27.12	-54.86	55.65	-4.21	372.96	328.37	44.59	8.365		
7,950.00	7,601.69	7,750.00	7,385.37	28.04	27.26	-54.55	93.81	-4.16	374.66	330.01	44.64	8.393		
8,000.00	7,607.55	7,788.08	7,388.69	28.20	27.41	-54.36	131.75	-4.10	375.89	331.07	44.82	8.387		
8,050.00	7,609.94	7,826.34	7,389.98	28.37	27.56	-54.27	169.98	-4.04	376.65	331.52	45.13	8.346		
8,059.23	7,610.00	7,833.99	7,390.00	28.41	27.59	-54.27	177.63	-4.03	376.73	331.53	45.20	8.335		
8,100.00	7,610.00	7,874.76	7,390.00	28.56	27.78	-54.30	218.40	-3.96	377.02	331.49	45.53	8.281		
8,200.00	7,610.00	7,974.76	7,390.00	29.01	28.27	-54.38	318.40	-3.81	377.72	331.28	46.44	8.133		
8,300.00	7,610.00	8,074.75	7,390.00	29.54	28.84	-54.45	418.39	-3.65	378.43	330.94	47.49	7.968		
8,400.00	7,610.00	8,174.75	7,390.00	30.15	29.49	-54.53	518.39	-3.50	379.14	330.46	48.68	7.789		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4I-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
8,500.00	7,610.00	8,274.75	7,390.00	30.83	30.20	-54.61	618.39	-3.34	379.84	329.86	49.98	7.599		
8,600.00	7,610.00	8,374.74	7,390.00	31.57	30.98	-54.68	718.38	-3.19	380.55	329.15	51.40	7.403		
8,700.00	7,610.00	8,474.74	7,390.00	32.37	31.81	-54.76	818.38	-3.03	381.26	328.33	52.93	7.203		
8,800.00	7,610.00	8,574.74	7,390.00	33.23	32.71	-54.83	918.37	-2.88	381.97	327.41	54.56	7.001		
8,900.00	7,610.00	8,674.73	7,390.00	34.14	33.65	-54.91	1,018.37	-2.72	382.68	326.41	56.27	6.801		
9,000.00	7,610.00	8,774.73	7,390.00	35.10	34.64	-54.98	1,118.37	-2.57	383.39	325.32	58.07	6.603		
9,100.00	7,610.00	8,874.72	7,390.00	36.10	35.67	-55.06	1,218.36	-2.41	384.10	324.16	59.94	6.408		
9,200.00	7,610.00	8,974.72	7,390.00	37.15	36.75	-55.13	1,318.36	-2.26	384.81	322.93	61.88	6.219		
9,300.00	7,610.00	9,074.72	7,390.00	38.22	37.85	-55.20	1,418.35	-2.10	385.52	321.64	63.88	6.035		
9,400.00	7,610.00	9,174.71	7,390.00	39.33	38.99	-55.28	1,518.35	-1.95	386.24	320.30	65.94	5.857		
9,500.00	7,610.00	9,274.71	7,390.00	40.48	40.16	-55.35	1,618.35	-1.79	386.95	318.90	68.05	5.686		
9,600.00	7,610.00	9,374.71	7,390.00	41.65	41.36	-55.42	1,718.34	-1.64	387.66	317.45	70.21	5.521		
9,700.00	7,610.00	9,474.70	7,390.00	42.84	42.58	-55.50	1,818.34	-1.48	388.38	315.96	72.42	5.363		
9,800.00	7,610.00	9,574.70	7,390.00	44.06	43.83	-55.57	1,918.34	-1.33	389.09	314.43	74.67	5.211		
9,900.00	7,610.00	9,674.69	7,390.00	45.31	45.10	-55.64	2,018.33	-1.17	389.81	312.86	76.95	5.066		
10,000.00	7,610.00	9,774.69	7,390.00	46.57	46.38	-55.71	2,118.33	-1.02	390.53	311.26	79.27	4.927		
10,100.00	7,610.00	9,874.69	7,390.00	47.85	47.69	-55.78	2,218.32	-0.86	391.24	309.63	81.62	4.794		
10,200.00	7,610.00	9,974.68	7,390.00	49.15	49.01	-55.85	2,318.32	-0.71	391.96	307.96	84.00	4.666		
10,300.00	7,610.00	10,074.68	7,390.00	50.46	50.34	-55.93	2,418.32	-0.55	392.68	306.28	86.40	4.545		
10,400.00	7,610.00	10,174.68	7,390.00	51.79	51.69	-56.00	2,518.31	-0.40	393.40	304.56	88.84	4.428		
10,500.00	7,610.00	10,274.67	7,390.00	53.13	53.05	-56.07	2,618.31	-0.24	394.12	302.83	91.29	4.317		
10,600.00	7,610.00	10,374.67	7,390.00	54.49	54.43	-56.14	2,718.30	-0.09	394.84	301.07	93.77	4.211		
10,700.00	7,610.00	10,474.66	7,390.00	55.85	55.81	-56.21	2,818.30	0.07	395.56	299.29	96.27	4.109		
10,800.00	7,610.00	10,574.66	7,390.00	57.23	57.21	-56.28	2,918.30	0.22	396.28	297.50	98.79	4.012		
10,900.00	7,610.00	10,674.66	7,390.00	58.62	58.61	-56.35	3,018.29	0.38	397.00	295.68	101.32	3.918		
11,000.00	7,610.00	10,774.65	7,390.00	60.01	60.03	-56.42	3,118.29	0.54	397.73	293.85	103.87	3.829		
11,100.00	7,610.00	10,874.65	7,390.00	61.42	61.45	-56.49	3,218.28	0.69	398.45	292.01	106.44	3.743		
11,200.00	7,610.00	10,974.65	7,390.00	62.83	62.88	-56.55	3,318.28	0.85	399.17	290.15	109.02	3.661		
11,300.00	7,610.00	11,074.64	7,390.00	64.25	64.31	-56.62	3,418.28	1.00	399.90	288.28	111.62	3.583		
11,400.00	7,610.00	11,174.64	7,390.00	65.68	65.76	-56.69	3,518.27	1.16	400.62	286.39	114.23	3.507		
11,500.00	7,610.00	11,274.63	7,390.00	67.11	67.21	-56.76	3,618.27	1.31	401.35	284.50	116.85	3.435		
11,600.00	7,610.00	11,374.63	7,390.00	68.55	68.66	-56.83	3,718.27	1.47	402.07	282.59	119.49	3.365		
11,700.00	7,610.00	11,474.63	7,390.00	70.00	70.12	-56.89	3,818.26	1.62	402.80	280.67	122.13	3.298		
11,800.00	7,610.00	11,574.62	7,390.00	71.45	71.59	-56.96	3,918.26	1.78	403.53	278.74	124.79	3.234		
11,900.00	7,610.00	11,674.62	7,390.00	72.90	73.06	-57.03	4,018.25	1.93	404.26	276.80	127.46	3.172		
12,000.00	7,610.00	11,774.62	7,390.00	74.37	74.53	-57.10	4,118.25	2.09	404.98	274.85	130.13	3.112		
12,100.00	7,610.00	11,870.85	7,390.00	75.83	75.96	-57.17	4,214.49	2.06	405.88	273.10	132.78	3.057		
12,200.00	7,610.00	11,967.38	7,390.00	77.30	77.41	-57.38	4,311.00	0.32	406.24	272.67	135.57	3.011		
12,300.00	7,610.00	12,067.34	7,390.00	78.78	78.91	-57.60	4,410.93	-1.63	410.75	272.29	138.46	2.967		
12,400.00	7,610.00	12,167.29	7,390.00	80.26	80.41	-57.82	4,510.87	-3.58	413.27	271.91	141.36	2.923		
12,500.00	7,610.00	12,267.25	7,390.00	81.74	81.92	-58.04	4,610.81	-5.53	415.79	271.52	144.27	2.882		
12,600.00	7,610.00	12,367.20	7,390.00	83.22	83.43	-58.26	4,710.74	-7.48	418.32	271.13	147.19	2.842		
12,700.00	7,610.00	12,467.16	7,390.00	84.71	84.95	-58.47	4,810.68	-9.44	420.85	270.73	150.12	2.803		
12,800.00	7,610.00	12,567.11	7,390.00	86.20	86.46	-58.68	4,910.62	-11.39	423.39	270.34	153.05	2.766		
12,900.00	7,610.00	12,667.07	7,390.00	87.70	87.99	-58.89	5,010.55	-13.34	425.93	269.93	156.00	2.730		
13,000.00	7,610.00	12,767.03	7,390.00	89.19	89.51	-59.10	5,110.49	-15.29	428.48	269.53	158.95	2.696		
13,100.00	7,610.00	12,866.98	7,390.00	90.69	91.04	-59.30	5,210.43	-17.24	431.04	269.12	161.91	2.662		
13,200.00	7,610.00	12,966.94	7,390.00	92.20	92.56	-59.50	5,310.36	-19.19	433.60	268.72	164.88	2.630		
13,300.00	7,610.00	13,066.89	7,390.00	93.70	94.09	-59.70	5,410.30	-21.15	436.17	268.31	167.86	2.598		
13,400.00	7,610.00	13,166.85	7,390.00	95.21	95.63	-59.89	5,510.24	-23.10	438.74	267.89	170.84	2.568		
13,500.00	7,610.00	13,266.80	7,390.00	96.72	97.16	-60.09	5,610.17	-25.05	441.31	267.48	173.83	2.539		
13,600.00	7,610.00	13,366.76	7,390.00	98.23	98.70	-60.28	5,710.11	-27.00	443.90	267.07	176.83	2.510		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													S26-T2N-R68W - SULLIVAN 4I-26H-P268 - OH - PLAN #2		Offset Site Error:		0.00 usft
Survey Program:													0-MWD+HDGM		Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor					
13,700.00	7,610.00	13,466.72	7,390.00	99.74	100.24	-60.47	5,810.05	-28.95	446.48	266.65	179.83	2.483					
13,800.00	7,610.00	13,566.67	7,390.00	101.26	101.78	-60.66	5,909.98	-30.90	449.07	266.23	182.84	2.456					
13,900.00	7,610.00	13,666.63	7,390.00	102.78	103.32	-60.84	6,009.92	-32.85	451.67	265.81	185.86	2.430					
14,000.00	7,610.00	13,766.58	7,390.00	104.30	104.87	-61.02	6,109.86	-34.81	454.27	265.39	188.88	2.405					
14,100.00	7,610.00	13,866.54	7,390.00	105.82	106.41	-61.20	6,209.79	-36.76	456.87	264.97	191.90	2.381					
14,200.00	7,610.00	13,966.49	7,390.00	107.34	107.96	-61.38	6,309.73	-38.71	459.48	264.55	194.94	2.357					
14,300.00	7,610.00	14,066.45	7,390.00	108.86	109.51	-61.56	6,409.67	-40.66	462.10	264.12	197.97	2.334					
14,400.00	7,610.00	14,166.41	7,390.00	110.39	111.06	-61.73	6,509.60	-42.61	464.72	263.70	201.02	2.312					
14,500.00	7,610.00	14,266.36	7,390.00	111.91	112.61	-61.91	6,609.54	-44.56	467.34	263.28	204.06	2.290					
14,600.00	7,610.00	14,366.32	7,390.00	113.44	114.16	-62.08	6,709.48	-46.52	469.97	262.85	207.11	2.269					
14,700.00	7,610.00	14,466.27	7,390.00	114.97	115.72	-62.25	6,809.41	-48.47	472.60	262.43	210.17	2.249					
14,800.00	7,610.00	14,566.23	7,390.00	116.50	117.27	-62.41	6,909.35	-50.42	475.23	262.00	213.23	2.229					
14,823.68	7,610.00	14,589.89	7,390.00	116.86	117.64	-62.45	6,933.01	-50.88	475.86	261.90	213.95	2.224 SF					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4J-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.23	-0.04	-10.07	10.07					
100.00	100.00	100.00	100.00	0.14	0.14	-90.23	-0.04	-10.07	10.07	9.79	0.28	36.483		
200.00	200.00	200.00	200.00	0.50	0.50	-90.23	-0.04	-10.07	10.07	9.08	0.99	10.142		
300.00	300.00	300.00	300.00	0.85	0.85	-90.23	-0.04	-10.07	10.07	8.36	1.71	5.889		
400.00	400.00	400.06	400.06	1.21	1.21	-92.56	-0.44	-9.90	9.91	7.49	2.42	4.095		
499.49	499.49	499.56	499.49	1.57	1.54	-113.03	-3.63	-8.54	9.28	6.17	3.11	2.986 CC		
500.00	500.00	500.07	500.00	1.57	1.54	-113.20	-3.66	-8.53	9.28	6.17	3.11	2.983 ES		
600.00	600.00	599.71	599.39	1.93	1.89	-149.94	-10.05	-5.81	11.63	7.77	3.85	3.017		
700.00	699.98	698.93	698.07	2.27	2.25	36.75	-19.57	-1.77	18.33	13.71	4.62	3.969		
800.00	799.84	798.33	796.58	2.61	2.63	28.31	-31.76	3.42	25.84	20.52	5.32	4.856		
900.00	899.45	898.20	895.51	2.95	3.01	26.13	-44.31	8.75	30.82	24.81	6.01	5.132		
987.60	986.42	985.78	982.27	3.26	3.36	26.85	-55.32	13.43	32.62	26.00	6.62	4.931		
1,000.00	998.71	998.17	994.55	3.31	3.41	27.10	-56.87	14.09	32.70	26.00	6.70	4.879		
1,100.00	1,097.79	1,098.16	1,093.61	3.68	3.81	29.06	-69.44	19.44	33.42	26.01	7.42	4.507		
1,200.00	1,196.88	1,198.16	1,192.66	4.06	4.21	30.94	-82.00	24.78	34.18	26.04	8.14	4.198		
1,300.00	1,295.96	1,298.15	1,291.71	4.44	4.61	32.73	-94.57	30.12	34.97	26.10	8.88	3.940		
1,400.00	1,395.05	1,398.14	1,390.77	4.83	5.02	34.44	-107.13	35.46	35.80	26.18	9.62	3.721		
1,500.00	1,494.14	1,498.13	1,489.82	5.23	5.43	36.07	-119.70	40.81	36.65	26.28	10.37	3.534		
1,600.00	1,593.22	1,598.12	1,588.88	5.62	5.84	37.63	-132.26	46.15	37.54	26.41	11.13	3.372		
1,700.00	1,692.31	1,698.11	1,687.93	6.02	6.25	39.11	-144.83	51.49	38.45	26.55	11.90	3.232		
1,800.00	1,791.39	1,798.10	1,786.99	6.42	6.66	40.52	-157.40	56.83	39.38	26.72	12.67	3.109		
1,900.00	1,890.48	1,898.09	1,886.04	6.83	7.07	41.87	-169.96	62.17	40.34	26.90	13.44	3.001		
2,000.00	1,989.57	1,998.08	1,985.10	7.23	7.48	43.16	-182.53	67.52	41.32	27.10	14.22	2.906		
2,100.00	2,088.65	2,098.07	2,084.15	7.63	7.89	44.38	-195.09	72.86	42.32	27.31	15.00	2.820		
2,200.00	2,187.74	2,198.07	2,183.20	8.04	8.30	45.55	-207.66	78.20	43.33	27.54	15.79	2.744		
2,300.00	2,286.82	2,298.06	2,282.26	8.45	8.71	46.66	-220.22	83.54	44.37	27.78	16.58	2.675		
2,400.00	2,385.91	2,398.05	2,381.31	8.85	9.13	47.72	-232.79	88.89	45.42	28.04	17.38	2.614		
2,500.00	2,485.00	2,498.04	2,480.37	9.26	9.54	48.74	-245.35	94.23	46.48	28.31	18.18	2.558		
2,600.00	2,584.08	2,598.03	2,579.42	9.67	9.95	49.71	-257.92	99.57	47.56	28.59	18.98	2.507		
2,700.00	2,683.17	2,698.02	2,678.48	10.08	10.36	50.63	-270.48	104.91	48.65	28.88	19.78	2.460		
2,800.00	2,782.26	2,798.01	2,777.53	10.49	10.78	51.52	-283.05	110.25	49.76	29.18	20.58	2.418		
2,900.00	2,881.34	2,898.00	2,876.59	10.90	11.19	52.36	-295.61	115.60	50.87	29.49	21.39	2.379		
3,000.00	2,980.43	2,997.99	2,975.64	11.30	11.60	53.17	-308.18	120.94	52.00	29.80	22.20	2.343		
3,100.00	3,079.51	3,097.98	3,074.69	11.71	12.02	53.94	-320.74	126.28	53.14	30.13	23.01	2.310		
3,200.00	3,178.60	3,197.98	3,173.75	12.12	12.43	54.69	-333.31	131.62	54.28	30.47	23.82	2.279		
3,300.00	3,277.69	3,297.97	3,272.80	12.54	12.84	55.40	-345.87	136.97	55.44	30.81	24.63	2.251		
3,400.00	3,376.77	3,397.96	3,371.86	12.95	13.26	56.08	-358.44	142.31	56.60	31.16	25.44	2.225		
3,500.00	3,475.86	3,497.95	3,470.91	13.36	13.67	56.74	-371.00	147.65	57.77	31.51	26.26	2.200		
3,600.00	3,574.94	3,597.94	3,569.97	13.77	14.09	57.36	-383.57	152.99	58.95	31.87	27.07	2.177		
3,700.00	3,674.03	3,697.93	3,669.02	14.18	14.50	57.97	-396.13	158.34	60.13	32.24	27.89	2.156		
3,800.00	3,773.12	3,797.92	3,768.08	14.59	14.91	58.55	-408.70	163.68	61.32	32.61	28.71	2.136		
3,900.00	3,872.20	3,897.91	3,867.13	15.00	15.33	59.11	-421.26	169.02	62.52	32.99	29.53	2.117		
4,000.00	3,971.29	3,997.90	3,966.18	15.41	15.74	59.65	-433.83	174.36	63.72	33.37	30.35	2.100		
4,100.00	4,070.37	4,097.89	4,065.24	15.82	16.16	60.16	-446.39	179.70	64.93	33.76	31.16	2.083		
4,200.00	4,169.46	4,197.89	4,164.29	16.24	16.57	60.66	-458.96	185.05	66.14	34.15	31.98	2.068		
4,300.00	4,268.55	4,297.88	4,263.35	16.65	16.98	61.14	-471.52	190.39	67.36	34.55	32.81	2.053		
4,400.00	4,367.63	4,397.87	4,362.40	17.06	17.40	61.61	-484.09	195.73	68.58	34.95	33.63	2.039		
4,500.00	4,466.72	4,497.86	4,461.46	17.47	17.81	62.05	-496.65	201.07	69.81	35.36	34.45	2.026		
4,600.00	4,565.81	4,597.85	4,560.51	17.88	18.23	62.48	-509.22	206.42	71.04	35.76	35.27	2.014		
4,700.00	4,664.89	4,698.54	4,660.32	18.30	18.64	63.22	-521.44	211.61	72.02	35.91	36.11	1.994		
4,800.00	4,763.98	4,799.79	4,761.04	18.71	19.04	66.09	-530.85	215.61	71.43	34.40	37.03	1.929		
4,900.00	4,863.06	4,900.66	4,861.70	19.12	19.40	71.61	-536.97	218.21	69.51	31.48	38.03	1.828		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4J-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
5,000.00	4,962.15	5,000.93	4,961.91	19.53	19.75	80.20	-539.81	219.42	67.24	28.18	39.07	1.721	
5,087.29	5,048.64	5,087.66	5,048.64	19.89	20.00	90.00	-540.04	219.52	66.27	26.40	39.87	1.662	
5,100.00	5,061.24	5,100.26	5,061.24	19.95	20.04	91.47	-540.04	219.52	66.30	26.33	39.97	1.659	
5,152.83	5,113.58	5,152.60	5,113.58	20.16	20.19	97.53	-540.04	219.52	66.86	26.52	40.34	1.657	
5,200.00	5,160.37	5,199.39	5,160.37	20.36	20.33	102.52	-540.04	219.52	67.91	27.30	40.61	1.672	
5,300.00	5,259.85	5,298.87	5,259.85	20.75	20.62	110.55	-540.04	219.52	70.81	29.72	41.09	1.723	
5,400.00	5,359.63	5,398.65	5,359.63	21.11	20.91	115.45	-540.04	219.52	73.41	31.84	41.58	1.766	
5,500.00	5,459.57	5,498.59	5,459.57	21.46	21.21	117.66	-540.04	219.52	74.82	32.70	42.13	1.776	
5,540.43	5,500.00	5,539.02	5,500.00	21.58	21.33	-90.80	-540.04	219.52	74.96	32.59	42.37	1.769	
5,600.00	5,559.57	5,598.59	5,559.57	21.76	21.50	-90.80	-540.04	219.52	74.96	32.23	42.73	1.754	
5,700.00	5,659.57	5,698.59	5,659.57	22.05	21.80	-90.80	-540.04	219.52	74.96	31.63	43.33	1.730	
5,800.00	5,759.57	5,798.59	5,759.57	22.35	22.10	-90.80	-540.04	219.52	74.96	31.03	43.93	1.706	
5,900.00	5,859.57	5,898.59	5,859.57	22.65	22.41	-90.80	-540.04	219.52	74.96	30.42	44.54	1.683	
6,000.00	5,959.57	5,998.59	5,959.57	22.95	22.71	-90.80	-540.04	219.52	74.96	29.81	45.15	1.660	
6,100.00	6,059.57	6,098.59	6,059.57	23.26	23.02	-90.80	-540.04	219.52	74.96	29.20	45.76	1.638	
6,200.00	6,159.57	6,198.59	6,159.57	23.56	23.33	-90.80	-540.04	219.52	74.96	28.58	46.38	1.616	
6,300.00	6,259.57	6,298.59	6,259.57	23.87	23.64	-90.80	-540.04	219.52	74.96	27.96	47.00	1.595	
6,400.00	6,359.57	6,398.59	6,359.57	24.17	23.95	-90.80	-540.04	219.52	74.96	27.34	47.62	1.574	
6,500.00	6,459.57	6,498.59	6,459.57	24.48	24.26	-90.80	-540.04	219.52	74.96	26.72	48.24	1.554	
6,600.00	6,559.57	6,598.59	6,559.57	24.79	24.57	-90.80	-540.04	219.52	74.96	26.09	48.87	1.534	
6,700.00	6,659.57	6,698.59	6,659.57	25.10	24.88	-90.80	-540.04	219.52	74.96	25.46	49.50	1.514	
6,800.00	6,759.57	6,798.59	6,759.57	25.42	25.20	-90.80	-540.04	219.52	74.96	24.83	50.13	1.495 Level 3	
6,834.33	6,793.90	6,832.93	6,793.90	25.53	25.31	-90.31	-539.41	219.52	74.95	24.63	50.33	1.489 Level 3	
6,900.00	6,859.57	6,898.11	6,858.81	25.73	25.50	-85.97	-533.71	219.49	75.17	24.64	50.53	1.488 Level 3	
6,934.23	6,893.80	6,931.54	6,891.82	25.84	25.59	-82.04	-528.51	219.46	75.77	25.26	50.51	1.500	
6,950.00	6,909.57	6,946.78	6,906.80	25.89	25.63	-80.56	-525.62	219.44	76.23	25.77	50.47	1.511	
7,000.00	6,959.48	6,994.77	6,953.46	26.04	25.75	-74.28	-514.47	219.38	78.37	28.15	50.23	1.560	
7,050.00	7,009.07	7,042.22	6,998.76	26.18	25.87	-68.49	-500.40	219.30	81.40	31.59	49.81	1.634	
7,100.00	7,058.10	7,089.15	7,042.57	26.31	25.97	-63.27	-483.56	219.21	85.17	35.96	49.22	1.731	
7,150.00	7,106.32	7,135.61	7,084.74	26.44	26.07	-58.65	-464.11	219.11	89.52	41.08	48.44	1.848	
7,200.00	7,153.51	7,181.62	7,125.18	26.55	26.16	-54.60	-442.19	218.99	94.27	46.78	47.49	1.985	
7,250.00	7,199.44	7,227.20	7,163.77	26.66	26.25	-51.08	-417.95	218.86	99.29	52.91	46.38	2.141	
7,300.00	7,243.88	7,272.38	7,200.44	26.76	26.33	-48.04	-391.55	218.71	104.46	59.33	45.13	2.315	
7,350.00	7,286.61	7,317.20	7,235.08	26.85	26.41	-45.43	-363.13	218.56	109.67	65.90	43.78	2.505	
7,400.00	7,327.43	7,361.68	7,267.65	26.94	26.49	-43.19	-332.85	218.39	114.84	72.50	42.34	2.712	
7,450.00	7,366.13	7,405.84	7,298.06	27.02	26.56	-41.27	-300.83	218.22	119.88	79.04	40.84	2.935	
7,500.00	7,402.54	7,450.00	7,326.43	27.10	26.64	-39.62	-267.00	218.04	124.74	85.37	39.37	3.168	
7,550.00	7,436.46	7,493.34	7,352.20	27.18	26.72	-38.24	-232.17	217.85	129.37	91.57	37.80	3.423	
7,600.00	7,467.74	7,536.72	7,375.84	27.26	26.81	-37.07	-195.80	217.65	133.72	97.40	36.32	3.682	
7,650.00	7,496.23	7,579.89	7,397.14	27.34	26.90	-36.10	-158.26	217.45	137.75	102.84	34.91	3.946	
7,700.00	7,521.78	7,622.87	7,416.05	27.43	27.00	-35.30	-119.67	217.24	141.43	107.82	33.62	4.207	
7,750.00	7,544.27	7,665.69	7,432.56	27.53	27.10	-34.65	-80.17	217.02	144.74	112.27	32.48	4.457	
7,800.00	7,563.59	7,708.38	7,446.64	27.64	27.22	-34.15	-39.88	216.80	147.66	116.13	31.54	4.682	
7,850.00	7,579.65	7,750.00	7,458.04	27.76	27.34	-33.79	0.15	216.58	150.17	119.43	30.75	4.884	
7,900.00	7,592.37	7,793.41	7,467.42	27.89	27.48	-33.54	42.52	216.35	152.25	121.86	30.40	5.009	
7,950.00	7,601.69	7,835.80	7,474.10	28.04	27.62	-33.41	84.38	216.13	153.90	123.64	30.26	5.086	
8,000.00	7,607.55	7,878.15	7,478.28	28.20	27.77	-33.40	126.52	215.90	155.11	124.68	30.43	5.098	
8,050.00	7,609.94	7,920.47	7,479.96	28.37	27.93	-33.50	168.80	215.67	155.87	124.97	30.90	5.044	
8,059.23	7,610.00	7,928.37	7,480.00	28.41	27.96	-33.54	176.69	215.62	155.97	124.94	31.02	5.028	
8,100.00	7,610.00	7,969.13	7,480.00	28.56	28.13	-33.73	217.45	215.40	156.32	124.85	31.47	4.968	
8,200.00	7,610.00	8,069.12	7,480.00	29.01	28.61	-34.21	317.44	214.86	157.20	124.56	32.64	4.817	
8,300.00	7,610.00	8,169.11	7,480.00	29.54	29.16	-34.67	417.43	214.32	158.08	124.16	33.92	4.660	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4J-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
8,400.00	7,610.00	8,269.10	7,480.00	30.15	29.79	-35.14	517.41	213.77	158.98	123.66	35.32	4.501	
8,500.00	7,610.00	8,369.08	7,480.00	30.83	30.50	-35.60	617.40	213.23	159.88	123.07	36.82	4.343	
8,600.00	7,610.00	8,469.07	7,480.00	31.57	31.26	-36.05	717.39	212.69	160.80	122.39	38.41	4.187	
8,700.00	7,610.00	8,569.06	7,480.00	32.37	32.09	-36.50	817.37	212.14	161.73	121.64	40.09	4.034	
8,800.00	7,610.00	8,669.05	7,480.00	33.23	32.97	-36.94	917.36	211.60	162.66	120.82	41.85	3.887	
8,900.00	7,610.00	8,769.03	7,480.00	34.14	33.91	-37.38	1,017.34	211.06	163.61	119.93	43.68	3.746	
9,000.00	7,610.00	8,869.02	7,480.00	35.10	34.89	-37.82	1,117.33	210.51	164.57	118.99	45.58	3.610	
9,100.00	7,610.00	8,969.01	7,480.00	36.10	35.92	-38.24	1,217.32	209.97	165.53	117.99	47.55	3.481	
9,200.00	7,610.00	9,069.00	7,480.00	37.15	36.98	-38.67	1,317.30	209.43	166.51	116.94	49.57	3.359	
9,300.00	7,610.00	9,168.99	7,480.00	38.22	38.08	-39.09	1,417.29	208.88	167.49	115.84	51.65	3.243	
9,400.00	7,610.00	9,268.97	7,480.00	39.33	39.22	-39.50	1,517.28	208.34	168.48	114.70	53.78	3.133	
9,500.00	7,610.00	9,368.96	7,480.00	40.48	40.38	-39.91	1,617.26	207.80	169.48	113.53	55.95	3.029	
9,600.00	7,610.00	9,468.95	7,480.00	41.65	41.58	-40.31	1,717.25	207.25	170.49	112.32	58.17	2.931	
9,700.00	7,610.00	9,568.94	7,480.00	42.84	42.80	-40.71	1,817.23	206.71	171.51	111.07	60.44	2.838	
9,800.00	7,610.00	9,668.92	7,480.00	44.06	44.04	-41.10	1,917.22	206.17	172.53	109.80	62.74	2.750	
9,900.00	7,610.00	9,768.91	7,480.00	45.31	45.30	-41.49	2,017.21	205.62	173.57	108.49	65.07	2.667	
10,000.00	7,610.00	9,868.90	7,480.00	46.57	46.59	-41.88	2,117.19	205.08	174.61	107.16	67.45	2.589	
10,100.00	7,610.00	9,968.89	7,480.00	47.85	47.89	-42.26	2,217.18	204.54	175.66	105.81	69.85	2.515	
10,200.00	7,610.00	10,068.87	7,480.00	49.15	49.21	-42.63	2,317.17	203.99	176.72	104.43	72.29	2.445	
10,300.00	7,610.00	10,168.86	7,480.00	50.46	50.54	-43.01	2,417.15	203.45	177.78	103.03	74.75	2.378	
10,400.00	7,610.00	10,268.85	7,480.00	51.79	51.89	-43.37	2,517.14	202.91	178.85	101.61	77.24	2.315	
10,500.00	7,610.00	10,368.84	7,480.00	53.13	53.25	-43.74	2,617.12	202.36	179.93	100.17	79.76	2.256	
10,600.00	7,610.00	10,468.83	7,480.00	54.49	54.62	-44.09	2,717.11	201.82	181.02	98.71	82.31	2.199	
10,700.00	7,610.00	10,568.81	7,480.00	55.85	56.01	-44.45	2,817.10	201.28	182.11	97.23	84.88	2.146	
10,800.00	7,610.00	10,668.80	7,480.00	57.23	57.40	-44.80	2,917.08	200.73	183.21	95.74	87.47	2.095	
10,900.00	7,610.00	10,768.79	7,480.00	58.62	58.81	-45.14	3,017.07	200.19	184.32	94.23	90.09	2.046	
11,000.00	7,610.00	10,868.78	7,480.00	60.01	60.22	-45.48	3,117.06	199.65	185.43	92.71	92.72	2.000	
11,100.00	7,610.00	10,968.76	7,480.00	61.42	61.65	-45.82	3,217.04	199.10	186.55	91.18	95.38	1.956	
11,200.00	7,610.00	11,068.75	7,480.00	62.83	63.08	-46.15	3,317.03	198.56	187.68	89.63	98.05	1.914	
11,300.00	7,610.00	11,168.74	7,480.00	64.25	64.51	-46.48	3,417.01	198.02	188.81	88.07	100.74	1.874	
11,400.00	7,610.00	11,268.73	7,480.00	65.68	65.96	-46.81	3,517.00	197.47	189.95	86.49	103.46	1.836	
11,500.00	7,610.00	11,368.72	7,480.00	67.11	67.41	-47.13	3,616.99	196.93	191.10	84.91	106.18	1.800	
11,600.00	7,610.00	11,468.70	7,480.00	68.55	68.86	-47.45	3,716.97	196.39	192.25	83.32	108.93	1.765	
11,700.00	7,610.00	11,568.69	7,480.00	70.00	70.33	-47.76	3,816.96	195.84	193.40	81.71	111.69	1.732	
11,800.00	7,610.00	11,668.68	7,480.00	71.45	71.80	-48.07	3,916.95	195.30	194.57	80.10	114.47	1.700	
11,900.00	7,610.00	11,768.67	7,480.00	72.90	73.27	-48.38	4,016.93	194.76	195.73	78.48	117.26	1.669	
12,000.00	7,610.00	11,868.65	7,480.00	74.37	74.75	-48.68	4,116.92	194.21	196.91	76.85	120.06	1.640	
12,100.00	7,610.00	11,968.64	7,480.00	75.83	76.23	-48.98	4,216.90	193.67	198.09	75.21	122.88	1.612	
12,200.00	7,610.00	12,068.63	7,480.00	77.30	77.71	-49.28	4,316.89	193.13	199.27	73.56	125.71	1.585	
12,300.00	7,610.00	12,168.62	7,480.00	78.78	79.20	-49.57	4,416.88	192.58	200.46	71.90	128.56	1.559	
12,400.00	7,610.00	12,268.61	7,480.00	80.26	80.70	-49.86	4,516.86	192.04	201.66	70.24	131.41	1.535	
12,500.00	7,610.00	12,368.59	7,480.00	81.74	82.19	-50.14	4,616.85	191.50	202.85	68.57	134.28	1.511	
12,600.00	7,610.00	12,468.58	7,480.00	83.22	83.69	-50.42	4,716.84	190.95	204.06	66.90	137.16	1.488 Level 3	
12,700.00	7,610.00	12,568.57	7,480.00	84.71	85.20	-50.70	4,816.82	190.41	205.27	65.22	140.05	1.466 Level 3	
12,800.00	7,610.00	12,668.56	7,480.00	86.20	86.70	-50.98	4,916.81	189.87	206.48	63.53	142.95	1.444 Level 3	
12,900.00	7,610.00	12,768.54	7,480.00	87.70	88.21	-51.25	5,016.79	189.32	207.70	61.84	145.86	1.424 Level 3	
13,000.00	7,610.00	12,868.53	7,480.00	89.19	89.72	-51.52	5,116.78	188.78	208.93	60.14	148.79	1.404 Level 3	
13,100.00	7,610.00	12,968.52	7,480.00	90.69	91.24	-51.78	5,216.77	188.24	210.16	58.44	151.72	1.385 Level 3	
13,200.00	7,610.00	13,068.51	7,480.00	92.20	92.76	-52.05	5,316.75	187.69	211.39	56.73	154.66	1.367 Level 3	
13,300.00	7,610.00	13,168.49	7,480.00	93.70	94.28	-52.31	5,416.74	187.15	212.63	55.02	157.61	1.349 Level 3	
13,400.00	7,610.00	13,268.48	7,480.00	95.21	95.80	-52.56	5,516.73	186.61	213.87	53.30	160.56	1.332 Level 3	
13,500.00	7,610.00	13,368.47	7,480.00	96.72	97.32	-52.82	5,616.71	186.06	215.11	51.58	163.53	1.315 Level 3	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4J-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM													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)	Total Uncertainty Axis	Separation Factor	Warning	
13,600.00	7,610.00	13,468.46	7,480.00	98.23	98.85	-53.07	5,716.70	185.52	216.36	49.86	166.50	1.299	Level 3	
13,700.00	7,610.00	13,568.45	7,480.00	99.74	100.37	-53.31	5,816.69	184.98	217.62	48.13	169.49	1.284	Level 3	
13,800.00	7,610.00	13,668.43	7,480.00	101.26	101.90	-53.56	5,916.67	184.43	218.87	46.40	172.47	1.269	Level 3	
13,900.00	7,610.00	13,768.42	7,480.00	102.78	103.43	-53.80	6,016.66	183.89	220.14	44.67	175.47	1.255	Level 3	
14,000.00	7,610.00	13,868.41	7,480.00	104.30	104.97	-54.04	6,116.64	183.35	221.40	42.93	178.48	1.241	Level 2	
14,100.00	7,610.00	13,968.40	7,480.00	105.82	106.50	-54.28	6,216.63	182.80	222.67	41.19	181.49	1.227	Level 2	
14,200.00	7,610.00	14,068.38	7,480.00	107.34	108.04	-54.51	6,316.62	182.26	223.95	39.44	184.50	1.214	Level 2	
14,300.00	7,610.00	14,168.37	7,480.00	108.86	109.57	-54.74	6,416.60	181.72	225.22	37.70	187.53	1.201	Level 2	
14,400.00	7,610.00	14,268.36	7,480.00	110.39	111.11	-54.97	6,516.59	181.17	226.50	35.95	190.56	1.189	Level 2	
14,500.00	7,610.00	14,368.35	7,480.00	111.91	112.65	-55.20	6,616.58	180.63	227.79	34.20	193.59	1.177	Level 2	
14,600.00	7,610.00	14,468.34	7,480.00	113.44	114.19	-55.42	6,716.56	180.09	229.08	32.44	196.63	1.165	Level 2	
14,700.00	7,610.00	14,568.32	7,480.00	114.97	115.74	-55.64	6,816.55	179.54	230.37	30.69	199.68	1.154	Level 2	
14,800.00	7,610.00	14,668.31	7,480.00	116.50	117.28	-55.86	6,916.53	179.00	231.66	28.93	202.73	1.143	Level 2	
14,823.68	7,610.00	14,691.86	7,480.00	116.86	117.64	-55.91	6,940.09	178.87	231.97	28.51	203.45	1.140	Level 2, SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4L-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	91.27	-0.22	9.79	9.79					
100.00	100.00	100.00	100.00	0.14	0.14	91.27	-0.22	9.79	9.79	9.52	0.28	35.484		
200.00	200.00	200.00	200.00	0.50	0.50	91.27	-0.22	9.79	9.79	8.80	0.99	9.864 CC		
300.00	300.00	299.71	299.69	0.85	0.84	97.32	-1.42	11.04	11.14	9.41	1.72	6.458		
400.00	400.00	399.18	399.02	1.21	1.19	108.72	-5.01	14.78	15.64	13.15	2.49	6.271		
500.00	500.00	498.17	497.63	1.57	1.55	117.57	-10.95	20.98	23.78	20.50	3.28	7.250		
600.00	600.00	596.45	595.18	1.93	1.92	122.99	-19.18	29.55	35.56	31.50	4.06	8.757		
700.00	699.98	694.75	692.35	2.27	2.32	-25.89	-29.52	40.32	49.00	44.23	4.77	10.276		
800.00	799.84	794.15	790.50	2.61	2.73	-25.78	-40.36	51.61	59.91	54.49	5.42	11.055		
900.00	899.45	893.83	888.94	2.95	3.14	-26.99	-51.24	62.94	67.71	61.62	6.09	11.112		
987.60	986.42	981.29	975.31	3.26	3.51	-28.92	-60.77	72.87	72.05	65.35	6.70	10.749		
1,000.00	998.71	993.67	987.53	3.31	3.56	-29.25	-62.13	74.28	72.50	65.71	6.79	10.679		
1,100.00	1,097.79	1,093.55	1,086.16	3.68	3.99	-31.78	-73.02	85.63	76.26	68.75	7.51	10.159		
1,200.00	1,196.88	1,193.42	1,184.79	4.06	4.41	-34.08	-83.91	96.97	80.15	71.91	8.24	9.731		
1,300.00	1,295.96	1,293.30	1,283.42	4.44	4.84	-36.15	-94.81	108.32	84.16	75.18	8.98	9.372		
1,400.00	1,395.05	1,393.17	1,382.05	4.83	5.27	-38.04	-105.70	119.67	88.26	78.53	9.73	9.069		
1,500.00	1,494.14	1,493.05	1,480.68	5.23	5.69	-39.76	-116.59	131.02	92.46	81.96	10.49	8.811		
1,600.00	1,593.22	1,592.92	1,579.31	5.62	6.12	-41.33	-127.48	142.36	96.73	85.46	11.26	8.588		
1,700.00	1,692.31	1,692.80	1,677.94	6.02	6.55	-42.76	-138.38	153.71	101.06	89.02	12.04	8.395		
1,800.00	1,791.39	1,792.67	1,776.57	6.42	6.98	-44.07	-149.27	165.06	105.46	92.64	12.82	8.226		
1,900.00	1,890.48	1,892.55	1,875.19	6.83	7.41	-45.28	-160.16	176.40	109.90	96.30	13.61	8.078		
2,000.00	1,989.57	1,992.42	1,973.82	7.23	7.84	-46.40	-171.06	187.75	114.39	100.00	14.40	7.946		
2,100.00	2,088.65	2,092.30	2,072.45	7.63	8.27	-47.43	-181.95	199.10	118.92	103.73	15.19	7.829		
2,200.00	2,187.74	2,192.18	2,171.08	8.04	8.70	-48.38	-192.84	210.45	123.49	107.50	15.99	7.724		
2,300.00	2,286.82	2,292.05	2,269.71	8.45	9.13	-49.27	-203.74	221.79	128.09	111.30	16.79	7.630		
2,400.00	2,385.91	2,391.93	2,368.34	8.85	9.56	-50.09	-214.63	233.14	132.71	115.12	17.59	7.545		
2,500.00	2,485.00	2,491.80	2,466.97	9.26	9.99	-50.86	-225.52	244.49	137.36	118.97	18.39	7.468		
2,600.00	2,584.08	2,591.68	2,565.60	9.67	10.42	-51.58	-236.42	255.83	142.04	122.84	19.20	7.398		
2,700.00	2,683.17	2,691.55	2,664.23	10.08	10.85	-52.26	-247.31	267.18	146.73	126.73	20.01	7.334		
2,800.00	2,782.26	2,791.43	2,762.85	10.49	11.28	-52.89	-258.20	278.53	151.45	130.63	20.82	7.275		
2,900.00	2,881.34	2,891.30	2,861.48	10.90	11.72	-53.48	-269.10	289.88	156.18	134.55	21.63	7.221		
3,000.00	2,980.43	2,991.18	2,960.11	11.30	12.15	-54.04	-279.99	301.22	160.93	138.49	22.44	7.171		
3,100.00	3,079.51	3,091.05	3,058.74	11.71	12.58	-54.56	-290.88	312.57	165.69	142.44	23.25	7.125		
3,200.00	3,178.60	3,190.93	3,157.37	12.12	13.01	-55.06	-301.78	323.92	170.46	146.40	24.07	7.083		
3,300.00	3,277.69	3,290.80	3,256.00	12.54	13.44	-55.53	-312.67	335.26	175.25	150.37	24.88	7.043		
3,400.00	3,376.77	3,390.68	3,354.63	12.95	13.87	-55.97	-323.56	346.61	180.05	154.35	25.70	7.006		
3,500.00	3,475.86	3,490.55	3,453.26	13.36	14.30	-56.39	-334.46	357.96	184.86	158.34	26.51	6.972		
3,600.00	3,574.94	3,590.43	3,551.89	13.77	14.74	-56.79	-345.35	369.31	189.67	162.34	27.33	6.940		
3,700.00	3,674.03	3,690.31	3,650.51	14.18	15.17	-57.17	-356.24	380.65	194.50	166.35	28.15	6.910		
3,800.00	3,773.12	3,790.18	3,749.14	14.59	15.60	-57.54	-367.14	392.00	199.34	170.37	28.97	6.881		
3,900.00	3,872.20	3,890.06	3,847.77	15.00	16.03	-57.88	-378.03	403.35	204.18	174.39	29.79	6.855		
4,000.00	3,971.29	3,989.93	3,946.40	15.41	16.46	-58.21	-388.92	414.69	209.03	178.42	30.61	6.830		
4,100.00	4,070.37	4,089.81	4,045.03	15.82	16.89	-58.52	-399.82	426.04	213.88	182.46	31.43	6.806		
4,200.00	4,169.46	4,189.68	4,143.66	16.24	17.32	-58.82	-410.71	437.39	218.75	186.50	32.25	6.784		
4,300.00	4,268.55	4,289.56	4,242.29	16.65	17.76	-59.11	-421.60	448.74	223.61	190.55	33.07	6.763		
4,400.00	4,367.63	4,389.43	4,340.92	17.06	18.19	-59.38	-432.50	460.08	228.49	194.60	33.89	6.743		
4,500.00	4,466.72	4,489.31	4,439.55	17.47	18.62	-59.65	-443.39	471.43	233.36	198.66	34.71	6.724		
4,600.00	4,565.81	4,589.18	4,538.18	17.88	19.05	-59.90	-454.28	482.78	238.25	202.72	35.53	6.706		
4,700.00	4,664.89	4,694.94	4,642.84	18.30	19.50	-60.41	-464.74	493.67	242.05	205.66	36.40	6.650		
4,800.00	4,763.98	4,801.36	4,748.66	18.71	19.91	-61.54	-472.57	501.82	243.21	205.95	37.27	6.526		
4,900.00	4,863.06	4,907.47	4,854.50	19.12	20.29	-63.32	-477.66	507.12	241.86	203.73	38.13	6.343		
5,000.00	4,962.15	5,012.95	4,959.93	19.53	20.64	-65.79	-480.02	509.59	238.24	199.25	38.99	6.110		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4L-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
5,100.00	5,061.24	5,114.26	5,061.24	19.95	20.93	-68.81	-480.22	509.79	233.17	193.31	39.86	5.850	
5,152.83	5,113.58	5,166.61	5,113.58	20.16	21.08	-70.45	-480.22	509.79	230.67	190.35	40.32	5.721	
5,200.00	5,160.37	5,213.40	5,160.37	20.36	21.21	-71.81	-480.22	509.79	228.72	188.00	40.73	5.616	
5,300.00	5,259.85	5,312.88	5,259.85	20.75	21.50	-74.18	-480.22	509.79	225.75	184.22	41.53	5.436	
5,400.00	5,359.63	5,412.66	5,359.63	21.11	21.78	-75.78	-480.22	509.79	224.02	181.75	42.27	5.300	
5,500.00	5,459.57	5,512.60	5,459.57	21.46	22.07	-76.55	-480.22	509.79	223.27	180.32	42.94	5.199	
5,540.43	5,500.00	5,553.03	5,500.00	21.58	22.19	74.73	-480.22	509.79	223.20	180.01	43.19	5.168	
5,600.00	5,559.57	5,612.60	5,559.57	21.76	22.37	74.73	-480.22	509.79	223.20	179.66	43.54	5.126	
5,700.00	5,659.57	5,712.60	5,659.57	22.05	22.66	74.73	-480.22	509.79	223.20	179.06	44.14	5.057	
5,800.00	5,759.57	5,812.60	5,759.57	22.35	22.96	74.73	-480.22	509.79	223.20	178.47	44.74	4.989	
5,900.00	5,859.57	5,912.60	5,859.57	22.65	23.25	74.73	-480.22	509.79	223.20	177.87	45.34	4.923	
6,000.00	5,959.57	6,012.60	5,959.57	22.95	23.55	74.73	-480.22	509.79	223.20	177.26	45.94	4.859	
6,100.00	6,059.57	6,112.60	6,059.57	23.26	23.85	74.73	-480.22	509.79	223.20	176.65	46.55	4.795	
6,200.00	6,159.57	6,212.60	6,159.57	23.56	24.15	74.73	-480.22	509.79	223.20	176.04	47.16	4.733	
6,300.00	6,259.57	6,312.60	6,259.57	23.87	24.46	74.73	-480.22	509.79	223.20	175.43	47.77	4.672	
6,400.00	6,359.57	6,412.60	6,359.57	24.17	24.76	74.73	-480.22	509.79	223.20	174.81	48.39	4.613	
6,500.00	6,459.57	6,512.60	6,459.57	24.48	25.07	74.73	-480.22	509.79	223.20	174.20	49.01	4.555	
6,600.00	6,559.57	6,612.60	6,559.57	24.79	25.38	74.73	-480.22	509.79	223.20	173.57	49.63	4.498	
6,700.00	6,659.57	6,712.60	6,659.57	25.10	25.69	74.73	-480.22	509.79	223.20	172.95	50.25	4.442	
6,800.00	6,759.57	6,812.60	6,759.57	25.42	26.00	74.73	-480.22	509.79	223.20	172.32	50.88	4.387	
6,900.00	6,859.57	6,905.24	6,851.98	25.73	26.27	73.38	-474.77	509.71	224.75	173.20	51.55	4.360	
6,934.23	6,893.80	6,936.33	6,882.75	25.84	26.36	72.29	-470.27	509.65	226.16	174.39	51.77	4.368	
6,950.00	6,909.57	6,950.00	6,896.20	25.89	26.40	71.10	-467.87	509.62	226.94	175.07	51.86	4.376	
7,000.00	6,959.48	6,995.31	6,940.44	26.04	26.51	69.17	-458.10	509.48	229.44	177.32	52.12	4.402	
7,050.00	7,009.07	7,039.70	6,983.09	26.18	26.62	67.38	-445.82	509.30	231.98	179.68	52.30	4.435	
7,100.00	7,058.10	7,083.73	7,024.56	26.31	26.72	65.72	-431.06	509.09	234.51	182.12	52.39	4.476	
7,150.00	7,106.32	7,127.43	7,064.76	26.44	26.81	64.19	-413.92	508.85	236.98	184.58	52.40	4.523	
7,200.00	7,153.51	7,170.83	7,103.56	26.55	26.89	62.78	-394.51	508.57	239.35	187.03	52.32	4.575	
7,250.00	7,199.44	7,213.96	7,140.89	26.66	26.97	61.49	-372.92	508.26	241.58	189.42	52.16	4.632	
7,300.00	7,243.88	7,256.83	7,176.64	26.76	27.04	60.32	-349.27	507.92	243.63	191.72	51.92	4.693	
7,350.00	7,286.61	7,300.00	7,211.15	26.85	27.10	59.26	-323.34	507.56	245.48	193.84	51.64	4.753	
7,400.00	7,327.43	7,341.95	7,243.12	26.94	27.16	58.33	-296.20	507.17	247.08	195.82	51.26	4.820	
7,450.00	7,366.13	7,384.24	7,273.69	27.02	27.22	57.51	-266.99	506.75	248.42	197.55	50.87	4.884	
7,500.00	7,402.54	7,426.38	7,302.38	27.10	27.27	56.81	-236.14	506.31	249.47	199.02	50.45	4.945	
7,550.00	7,436.46	7,468.40	7,329.14	27.18	27.31	56.21	-203.75	505.85	250.21	200.18	50.03	5.001	
7,600.00	7,467.74	7,510.31	7,353.89	27.26	27.36	55.73	-169.93	505.37	250.63	201.01	49.62	5.051	
7,650.00	7,496.23	7,550.00	7,375.46	27.34	27.40	55.37	-136.63	504.89	250.73	201.60	49.12	5.104	
7,700.00	7,521.78	7,593.93	7,397.15	27.43	27.45	55.08	-98.44	504.35	250.45	201.54	48.91	5.120	
7,750.00	7,544.27	7,635.68	7,415.56	27.53	27.50	54.93	-60.97	503.81	249.84	201.18	48.65	5.135	
7,800.00	7,563.59	7,677.43	7,431.75	27.64	27.55	54.88	-22.51	503.27	248.87	200.39	48.48	5.133	
7,850.00	7,579.65	7,719.18	7,445.67	27.76	27.61	54.94	16.85	502.71	247.55	199.14	48.41	5.113	
7,900.00	7,592.37	7,760.97	7,457.29	27.89	27.68	55.11	56.98	502.13	245.88	197.42	48.46	5.074	
7,950.00	7,601.69	7,800.00	7,466.00	28.04	27.76	55.39	95.02	501.59	243.90	195.34	48.55	5.023	
8,000.00	7,607.55	7,844.76	7,473.43	28.20	27.86	55.81	139.14	500.96	241.54	192.61	48.93	4.937	
8,050.00	7,609.94	7,886.80	7,477.89	28.37	27.98	56.33	180.93	500.37	238.90	189.54	49.37	4.839	
8,059.23	7,610.00	7,894.57	7,478.44	28.41	28.00	56.44	188.68	500.26	238.38	188.92	49.46	4.820	
8,100.00	7,610.00	7,929.00	7,479.89	28.56	28.11	56.62	223.08	499.77	236.61	186.78	49.83	4.748	
8,200.00	7,610.00	8,026.64	7,480.00	29.01	28.48	56.32	320.70	498.37	234.49	183.90	50.59	4.635	
8,300.00	7,610.00	8,126.61	7,480.00	29.54	28.97	55.99	420.66	496.95	232.46	180.98	51.47	4.516	
8,400.00	7,610.00	8,226.58	7,480.00	30.15	29.55	55.65	520.62	495.52	230.43	177.96	52.48	4.391	
8,500.00	7,610.00	8,326.55	7,480.00	30.83	30.22	55.30	620.58	494.10	228.42	174.83	53.59	4.263	
8,600.00	7,610.00	8,426.52	7,480.00	31.57	30.96	54.95	720.54	492.67	226.41	171.61	54.80	4.132	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4L-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												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)	Total Uncertainty Axis	Separation Factor	Warning
8,700.00	7,610.00	8,526.49	7,480.00	32.37	31.76	54.59	820.50	491.25	224.41	168.31	56.10	4.000	
8,800.00	7,610.00	8,626.46	7,480.00	33.23	32.63	54.22	920.46	489.82	222.42	164.93	57.49	3.869	
8,900.00	7,610.00	8,726.43	7,480.00	34.14	33.54	53.85	1,020.42	488.40	220.43	161.49	58.94	3.740	
9,000.00	7,610.00	8,826.40	7,480.00	35.10	34.51	53.47	1,120.38	486.97	218.46	157.99	60.47	3.613	
9,100.00	7,610.00	8,926.37	7,480.00	36.10	35.52	53.09	1,220.34	485.55	216.50	154.45	62.05	3.489	
9,200.00	7,610.00	9,026.34	7,480.00	37.15	36.58	52.70	1,320.30	484.12	214.55	150.87	63.68	3.369	
9,300.00	7,610.00	9,126.31	7,480.00	38.22	37.67	52.30	1,420.26	482.70	212.60	147.26	65.35	3.253	
9,400.00	7,610.00	9,226.28	7,480.00	39.33	38.79	51.89	1,520.22	481.27	210.67	143.62	67.06	3.142	
9,500.00	7,610.00	9,326.25	7,480.00	40.48	39.95	51.47	1,620.18	479.85	208.75	139.96	68.79	3.034	
9,600.00	7,610.00	9,426.22	7,480.00	41.65	41.14	51.05	1,720.14	478.42	206.84	136.28	70.56	2.932	
9,700.00	7,610.00	9,526.19	7,480.00	42.84	42.35	50.62	1,820.10	477.00	204.94	132.60	72.34	2.833	
9,800.00	7,610.00	9,626.16	7,480.00	44.06	43.59	50.18	1,920.06	475.57	203.06	128.92	74.14	2.739	
9,900.00	7,610.00	9,726.13	7,480.00	45.31	44.85	49.74	2,020.02	474.15	201.18	125.23	75.95	2.649	
10,000.00	7,610.00	9,826.10	7,480.00	46.57	46.13	49.28	2,119.98	472.72	199.32	121.56	77.76	2.563	
10,100.00	7,610.00	9,926.07	7,480.00	47.85	47.42	48.82	2,219.94	471.30	197.47	117.89	79.58	2.481	
10,200.00	7,610.00	10,026.04	7,480.00	49.15	48.74	48.35	2,319.90	469.87	195.63	114.24	81.40	2.403	
10,300.00	7,610.00	10,126.01	7,480.00	50.46	50.07	47.87	2,419.86	468.45	193.81	110.60	83.21	2.329	
10,400.00	7,610.00	10,225.98	7,480.00	51.79	51.42	47.38	2,519.82	467.02	192.00	106.99	85.01	2.259	
10,500.00	7,610.00	10,325.95	7,480.00	53.13	52.78	46.88	2,619.78	465.59	190.21	103.40	86.80	2.191	
10,600.00	7,610.00	10,425.92	7,480.00	54.49	54.15	46.37	2,719.74	464.17	188.43	99.85	88.58	2.127	
10,700.00	7,610.00	10,525.89	7,480.00	55.85	55.54	45.85	2,819.70	462.74	186.66	96.32	90.34	2.066	
10,800.00	7,610.00	10,625.86	7,480.00	57.23	56.94	45.32	2,919.66	461.32	184.91	92.83	92.08	2.008	
10,900.00	7,610.00	10,725.83	7,480.00	58.62	58.34	44.78	3,019.62	459.89	183.18	89.38	93.80	1.953	
11,000.00	7,610.00	10,825.80	7,480.00	60.01	59.76	44.23	3,119.58	458.47	181.46	85.96	95.50	1.900	
11,100.00	7,610.00	10,925.77	7,480.00	61.42	61.18	43.67	3,219.54	457.04	179.76	82.60	97.17	1.850	
11,200.00	7,610.00	11,025.74	7,480.00	62.83	62.61	43.11	3,319.50	455.62	178.08	79.27	98.81	1.802	
11,300.00	7,610.00	11,125.71	7,480.00	64.25	64.05	42.52	3,419.46	454.19	176.42	76.00	100.42	1.757	
11,400.00	7,610.00	11,225.68	7,480.00	65.68	65.50	41.93	3,519.42	452.77	174.77	72.78	101.99	1.714	
11,500.00	7,610.00	11,325.65	7,480.00	67.11	66.95	41.33	3,619.38	451.34	173.15	69.62	103.53	1.672	
11,600.00	7,610.00	11,425.62	7,480.00	68.55	68.41	40.72	3,719.34	449.92	171.54	66.51	105.03	1.633	
11,700.00	7,610.00	11,525.59	7,480.00	70.00	69.88	40.09	3,819.30	448.49	169.95	63.46	106.49	1.596	
11,800.00	7,610.00	11,625.56	7,480.00	71.45	71.35	39.45	3,919.26	447.07	168.39	60.47	107.91	1.560	
11,900.00	7,610.00	11,725.53	7,480.00	72.90	72.83	38.81	4,019.22	445.64	166.84	57.55	109.29	1.527	
12,000.00	7,610.00	11,825.50	7,480.00	74.37	74.31	38.14	4,119.18	444.22	165.32	54.70	110.62	1.494 Level 3	
12,100.00	7,610.00	11,925.47	7,480.00	75.83	75.79	37.47	4,219.14	442.79	163.82	51.91	111.90	1.464 Level 3	
12,200.00	7,610.00	12,025.44	7,480.00	77.30	77.28	36.78	4,319.10	441.37	162.34	49.20	113.14	1.435 Level 3	
12,300.00	7,610.00	12,125.41	7,480.00	78.78	78.78	36.09	4,419.06	439.94	160.88	46.56	114.33	1.407 Level 3	
12,400.00	7,610.00	12,225.38	7,480.00	80.26	80.28	35.38	4,519.02	438.52	159.45	43.99	115.46	1.381 Level 3	
12,500.00	7,610.00	12,325.35	7,480.00	81.74	81.78	34.65	4,618.98	437.09	158.05	41.50	116.55	1.356 Level 3	
12,600.00	7,610.00	12,425.32	7,480.00	83.22	83.28	33.92	4,718.94	435.67	156.67	39.09	117.58	1.332 Level 3	
12,700.00	7,610.00	12,525.29	7,480.00	84.71	84.79	33.17	4,818.90	434.24	155.32	36.76	118.56	1.310 Level 3	
12,800.00	7,610.00	12,625.26	7,480.00	86.20	86.30	32.40	4,918.86	432.82	153.99	34.51	119.48	1.289 Level 3	
12,900.00	7,610.00	12,725.23	7,480.00	87.70	87.81	31.63	5,018.82	431.39	152.69	32.34	120.35	1.269 Level 3	
13,000.00	7,610.00	12,825.20	7,480.00	89.19	89.33	30.84	5,118.78	429.97	151.42	30.26	121.16	1.250 Level 2	
13,100.00	7,610.00	12,925.17	7,480.00	90.69	90.85	30.04	5,218.74	428.54	150.18	28.26	121.92	1.232 Level 2	
13,200.00	7,610.00	13,025.14	7,480.00	92.20	92.37	29.22	5,318.70	427.12	148.97	26.34	122.63	1.215 Level 2	
13,300.00	7,610.00	13,125.11	7,480.00	93.70	93.90	28.40	5,418.66	425.69	147.79	24.51	123.28	1.199 Level 2	
13,400.00	7,610.00	13,225.08	7,480.00	95.21	95.42	27.55	5,518.62	424.27	146.64	22.77	123.87	1.184 Level 2	
13,500.00	7,610.00	13,325.05	7,480.00	96.72	96.95	26.70	5,618.58	422.84	145.52	21.10	124.42	1.170 Level 2	
13,600.00	7,610.00	13,425.02	7,480.00	98.23	98.48	25.83	5,718.54	421.42	144.44	19.52	124.92	1.156 Level 2	
13,700.00	7,610.00	13,524.99	7,480.00	99.74	100.02	24.95	5,818.50	419.99	143.39	18.03	125.36	1.144 Level 2	
13,800.00	7,610.00	13,624.96	7,480.00	101.26	101.55	24.06	5,918.46	418.57	142.37	16.61	125.77	1.132 Level 2	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4L-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
13,900.00	7,610.00	13,724.93	7,480.00	102.78	103.09	23.15	6,018.42	417.14	141.39	15.27	126.13	1.121	Level 2	
14,000.00	7,610.00	13,824.90	7,480.00	104.30	104.63	22.23	6,118.38	415.72	140.45	14.00	126.45	1.111	Level 2	
14,100.00	7,610.00	13,924.87	7,480.00	105.82	106.17	21.30	6,218.34	414.29	139.54	12.80	126.74	1.101	Level 2	
14,200.00	7,610.00	14,024.84	7,480.00	107.34	107.71	20.36	6,318.30	412.86	138.67	11.67	127.00	1.092	Level 2	
14,300.00	7,610.00	14,124.81	7,480.00	108.86	109.25	19.41	6,418.26	411.44	137.84	10.60	127.23	1.083	Level 2	
14,400.00	7,610.00	14,224.78	7,480.00	110.39	110.79	18.44	6,518.22	410.01	137.04	9.59	127.45	1.075	Level 2	
14,500.00	7,610.00	14,324.75	7,480.00	111.91	112.34	17.47	6,618.17	408.59	136.29	8.63	127.66	1.068	Level 2	
14,600.00	7,610.00	14,424.72	7,480.00	113.44	113.89	16.48	6,718.13	407.16	135.57	7.72	127.86	1.060	Level 2	
14,700.00	7,610.00	14,524.69	7,480.00	114.97	115.44	15.48	6,818.09	405.74	134.90	6.84	128.06	1.053	Level 2	
14,800.00	7,610.00	14,624.66	7,480.00	116.50	116.98	14.48	6,918.05	404.31	134.27	5.99	128.27	1.047	Level 2	
14,823.68	7,610.00	14,647.70	7,480.00	116.86	117.34	14.24	6,941.09	403.99	134.12	5.77	128.35	1.045	Level 2, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Sullivan 6-8-26 - CPR - SURVEYS												Offset Site Error: 0.00 usft	
Survey Program: 165-Geolink MWD												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
2,300.00	2,286.82	2,665.35	2,591.15	8.45	11.45	116.27	-273.98	-1,352.61	1,491.06	1,475.62	15.44	96.575	
2,400.00	2,385.91	2,754.84	2,677.57	8.85	11.90	116.20	-285.48	-1,332.46	1,474.93	1,458.79	16.13	91.424	
2,500.00	2,485.00	2,864.36	2,783.05	9.26	12.46	116.07	-300.74	-1,307.24	1,458.32	1,441.44	16.88	86.390	
2,600.00	2,584.08	2,960.91	2,876.12	9.67	12.95	115.98	-313.49	-1,284.89	1,441.60	1,424.01	17.59	81.944	
2,700.00	2,683.17	3,054.46	2,966.35	10.08	13.40	115.89	-325.65	-1,263.47	1,425.11	1,406.83	18.28	77.951	
2,800.00	2,782.26	3,165.99	3,074.06	10.49	13.97	115.84	-339.10	-1,237.82	1,408.51	1,389.50	19.01	74.087	
2,900.00	2,881.34	3,261.11	3,165.82	10.90	14.44	115.80	-350.31	-1,215.44	1,391.35	1,371.66	19.69	70.673	
3,000.00	2,980.43	3,343.15	3,245.09	11.30	14.84	115.75	-360.32	-1,196.82	1,375.04	1,354.67	20.37	67.499	
3,100.00	3,079.51	3,476.03	3,373.49	11.71	15.50	115.74	-374.68	-1,165.81	1,358.01	1,336.94	21.07	64.454	
3,200.00	3,178.60	3,596.99	3,489.88	12.12	16.14	115.78	-386.55	-1,135.10	1,338.85	1,317.10	21.75	61.562	
3,300.00	3,277.69	3,689.99	3,579.10	12.54	16.63	115.80	-395.91	-1,110.57	1,318.75	1,296.35	22.40	58.867	
3,400.00	3,376.77	3,752.27	3,639.06	12.95	16.93	115.80	-402.51	-1,095.09	1,300.33	1,277.27	23.06	56.399	
3,500.00	3,475.86	3,822.30	3,706.83	13.36	17.27	115.75	-411.28	-1,079.81	1,284.83	1,261.10	23.74	54.132	
3,600.00	3,574.94	3,897.87	3,780.07	13.77	17.60	115.65	-421.82	-1,064.45	1,271.02	1,246.60	24.42	52.047	
3,700.00	3,674.03	3,969.63	3,850.11	14.18	17.88	115.62	-430.40	-1,051.47	1,259.34	1,234.29	25.05	50.270	
3,800.00	3,773.12	4,038.99	3,918.26	14.59	18.12	115.68	-436.90	-1,040.31	1,249.68	1,224.05	25.63	48.763	
3,900.00	3,872.20	4,125.99	4,004.12	15.00	18.39	115.83	-443.53	-1,027.92	1,241.70	1,215.50	26.20	47.401	
4,000.00	3,971.29	4,202.00	4,079.37	15.41	18.60	116.00	-448.57	-1,018.48	1,235.49	1,208.76	26.72	46.238	
4,100.00	4,070.37	4,278.72	4,155.53	15.82	18.79	116.21	-453.07	-1,010.39	1,231.14	1,203.91	27.23	45.219	
4,200.00	4,169.46	4,352.65	4,229.07	16.24	18.94	116.43	-457.12	-1,004.04	1,228.77	1,201.06	27.71	44.348	
4,300.00	4,268.55	4,439.09	4,315.21	16.65	19.11	116.70	-461.48	-998.32	1,228.33	1,200.13	28.20	43.561	
4,345.03	4,313.17	4,482.39	4,358.37	16.83	19.19	116.85	-463.50	-995.56	1,228.28	1,199.85	28.42	43.214 CC	
4,400.00	4,367.63	4,528.21	4,404.08	17.06	19.27	117.01	-465.35	-992.87	1,228.48	1,199.81	28.67	42.848 ES	
4,500.00	4,466.72	4,611.37	4,487.11	17.47	19.39	117.36	-467.76	-988.88	1,229.94	1,200.84	29.10	42.266	
4,600.00	4,565.81	4,698.99	4,574.66	17.88	19.50	117.78	-469.25	-985.79	1,232.70	1,203.18	29.52	41.765	
4,700.00	4,664.89	4,792.27	4,667.90	18.30	19.61	118.24	-470.37	-983.12	1,236.21	1,206.27	29.93	41.300	
4,800.00	4,763.98	4,889.27	4,764.86	18.71	19.71	118.75	-470.93	-980.68	1,240.16	1,209.81	30.35	40.869	
4,900.00	4,863.06	4,993.24	4,868.80	19.12	19.83	119.33	-470.69	-977.97	1,244.14	1,213.38	30.75	40.455	
5,000.00	4,962.15	5,085.99	4,961.50	19.53	19.94	119.86	-469.92	-975.12	1,247.80	1,216.67	31.14	40.077	
5,100.00	5,061.24	5,173.44	5,048.92	19.95	20.00	120.37	-469.17	-973.06	1,252.34	1,220.82	31.52	39.732	
5,152.83	5,113.58	5,214.62	5,090.09	20.16	20.03	120.60	-468.96	-972.66	1,255.48	1,223.77	31.71	39.591	
5,200.00	5,160.37	5,260.99	5,136.46	20.36	20.06	120.88	-468.85	-972.67	1,258.56	1,226.65	31.91	39.442	
5,300.00	5,259.85	5,348.52	5,224.00	20.75	20.12	121.33	-468.56	-973.09	1,264.25	1,231.95	32.30	39.140	
5,400.00	5,359.63	5,448.37	5,323.84	21.11	20.19	121.69	-467.79	-973.54	1,268.21	1,235.48	32.73	38.746	
5,500.00	5,459.57	5,547.33	5,422.79	21.46	20.26	121.89	-466.73	-974.00	1,270.40	1,237.23	33.17	38.305	
5,540.43	5,500.00	5,587.36	5,462.82	21.58	20.28	-86.72	-466.24	-974.21	1,270.78	1,237.45	33.34	38.119	
5,600.00	5,559.57	5,654.17	5,529.62	21.76	20.35	-86.68	-465.48	-974.44	1,271.04	1,237.43	33.61	37.815	
5,700.00	5,659.57	5,774.47	5,649.92	22.05	20.48	-86.67	-465.18	-973.49	1,270.27	1,236.16	34.11	37.240	
5,800.00	5,759.57	5,860.43	5,735.87	22.35	20.54	-86.67	-465.26	-972.50	1,269.13	1,234.62	34.51	36.780	
5,834.14	5,793.71	5,888.66	5,764.10	22.45	20.56	-86.66	-465.12	-972.43	1,269.05	1,234.42	34.64	36.640	
5,900.00	5,859.57	5,943.11	5,818.55	22.65	20.59	-86.64	-464.62	-972.64	1,269.35	1,234.47	34.88	36.390	
6,000.00	5,959.57	6,033.65	5,909.07	22.95	20.63	-86.58	-463.29	-973.78	1,270.68	1,235.41	35.27	36.025	
6,100.00	6,059.57	6,126.03	6,001.42	23.26	20.68	-86.51	-461.61	-975.48	1,272.62	1,236.96	35.67	35.682	
6,200.00	6,159.57	6,223.12	6,098.46	23.56	20.72	-86.42	-459.50	-977.65	1,274.99	1,238.92	36.07	35.349	
6,300.00	6,259.57	6,320.68	6,195.97	23.87	20.76	-86.32	-457.00	-980.00	1,277.56	1,241.09	36.47	35.028	
6,400.00	6,359.57	6,418.61	6,293.82	24.17	20.80	-86.21	-454.37	-982.52	1,280.30	1,243.42	36.88	34.714	
6,500.00	6,459.57	6,518.39	6,393.53	24.48	20.84	-86.10	-451.69	-985.22	1,283.18	1,245.88	37.30	34.403	
6,600.00	6,559.57	6,621.74	6,496.81	24.79	20.89	-85.98	-448.83	-987.83	1,285.89	1,248.16	37.73	34.082	
6,700.00	6,659.57	6,725.88	6,600.89	25.10	20.95	-85.85	-445.85	-990.15	1,288.32	1,250.15	38.16	33.757	
6,800.00	6,759.57	6,830.46	6,705.40	25.42	21.01	-85.73	-442.87	-992.11	1,290.40	1,251.79	38.60	33.427	
6,900.00	6,859.57	6,937.94	6,812.83	25.73	21.09	-85.60	-439.91	-993.63	1,292.01	1,252.96	39.06	33.079	
6,934.23	6,893.80	6,974.76	6,849.63	25.84	21.12	-85.56	-438.95	-994.00	1,292.43	1,253.22	39.21	32.958	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design										S26-T2N-R68W - Sullivan 6-8-26 - CPR - SURVEYS				Offset Site Error:		0.00 usft
Survey Program: 165-Geolink MWD												Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning			
6,950.00	6,909.57	6,991.72	6,866.59	25.89	21.13	-86.12	-438.52	-994.15	1,292.59	1,253.31	39.29	32.901				
7,000.00	6,959.48	7,043.04	6,917.89	26.04	21.17	-86.17	-437.24	-994.55	1,292.88	1,253.36	39.52	32.712				
7,050.00	7,009.07	7,093.15	6,967.98	26.18	21.21	-86.40	-436.01	-994.91	1,292.92	1,253.15	39.77	32.510				
7,100.00	7,058.10	7,142.77	7,017.58	26.31	21.25	-86.79	-434.82	-995.26	1,292.77	1,252.74	40.03	32.294				
7,150.00	7,106.32	7,191.63	7,066.43	26.44	21.29	-87.33	-433.66	-995.59	1,292.50	1,252.19	40.31	32.066				
7,200.00	7,153.51	7,239.41	7,114.20	26.55	21.33	-88.01	-432.57	-995.90	1,292.20	1,251.60	40.60	31.829				
7,250.00	7,199.44	7,285.96	7,160.74	26.66	21.36	-88.80	-431.55	-996.20	1,291.99	1,251.09	40.90	31.587				
7,269.69	7,217.13	7,303.90	7,178.68	26.70	21.38	-89.13	-431.17	-996.32	1,291.97	1,250.94	41.03	31.491				
7,300.00	7,243.88	7,331.04	7,205.81	26.76	21.40	-89.67	-430.61	-996.49	1,292.03	1,250.81	41.22	31.343				
7,350.00	7,286.61	7,376.41	7,251.16	26.85	21.45	-90.65	-429.71	-996.75	1,292.46	1,250.90	41.56	31.095				
7,400.00	7,327.43	7,422.18	7,296.93	26.94	21.50	-91.72	-428.97	-996.89	1,293.36	1,251.42	41.93	30.843				
7,450.00	7,366.13	7,465.40	7,340.15	27.02	21.54	-92.79	-428.44	-996.86	1,294.90	1,252.59	42.32	30.601				
7,500.00	7,402.54	7,505.86	7,380.60	27.10	21.59	-93.81	-428.09	-996.70	1,297.32	1,254.60	42.71	30.374				
7,550.00	7,436.46	7,542.44	7,417.19	27.18	21.63	-94.70	-427.89	-996.46	1,300.82	1,257.70	43.12	30.168				
7,600.00	7,467.74	7,574.38	7,449.12	27.26	21.67	-95.41	-427.77	-996.21	1,305.66	1,262.13	43.53	29.992				
7,650.00	7,496.23	7,603.39	7,478.13	27.34	21.70	-95.94	-427.70	-995.97	1,312.02	1,268.06	43.96	29.847				
7,700.00	7,521.78	7,629.34	7,504.08	27.43	21.74	-96.28	-427.66	-995.74	1,320.02	1,275.64	44.39	29.739				
7,750.00	7,544.27	7,652.11	7,526.85	27.53	21.76	-96.38	-427.65	-995.53	1,329.79	1,284.98	44.82	29.671				
7,800.00	7,563.59	7,671.60	7,546.34	27.64	21.79	-96.22	-427.65	-995.34	1,341.40	1,296.15	45.25	29.646 SF				
7,850.00	7,579.65	7,687.74	7,562.48	27.76	21.81	-95.77	-427.67	-995.19	1,354.88	1,309.21	45.67	29.667				
7,900.00	7,592.37	7,700.47	7,575.20	27.89	21.82	-95.03	-427.69	-995.06	1,370.24	1,324.15	46.08	29.735				
7,950.00	7,601.69	7,709.84	7,584.57	28.04	21.83	-93.98	-427.71	-994.96	1,387.42	1,340.94	46.48	29.851				
8,000.00	7,607.55	7,715.78	7,590.51	28.20	21.84	-92.60	-427.72	-994.90	1,406.35	1,359.49	46.85	30.015				
8,050.00	7,609.94	7,718.15	7,592.89	28.37	21.84	-90.91	-427.72	-994.87	1,426.91	1,379.70	47.21	30.224				
8,059.23	7,610.00	7,718.20	7,592.94	28.41	21.84	-90.56	-427.72	-994.87	1,430.87	1,383.60	47.27	30.268				
8,100.00	7,610.00	7,718.14	7,592.88	28.56	21.84	-90.55	-427.72	-994.87	1,448.95	1,401.40	47.55	30.474				
8,200.00	7,610.00	7,717.99	7,592.73	29.01	21.84	-90.55	-427.72	-994.88	1,497.07	1,448.89	48.18	31.070				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Sullivan 8-6-26 - CPR WELL - SURVEYS													Offset Site Error: 0.00 usft			
Survey Program: 966-MWD															Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning			
5,152.83	5,113.58	5,395.57	5,323.71	20.16	29.20	-152.33	967.90	264.11	1,498.98	1,455.70	43.28	34.634				
5,200.00	5,160.37	5,441.43	5,368.85	20.36	29.51	-152.23	961.56	269.21	1,497.64	1,453.91	43.73	34.246				
5,300.00	5,259.85	5,534.00	5,459.92	20.75	30.16	-151.96	948.74	279.69	1,492.53	1,447.86	44.67	33.413				
5,400.00	5,359.63	5,616.27	5,541.00	21.11	30.71	-151.65	938.01	288.57	1,485.23	1,439.69	45.54	32.614				
5,500.00	5,459.57	5,710.35	5,633.95	21.46	31.31	-151.26	926.81	297.90	1,476.02	1,429.56	46.46	31.773				
5,540.43	5,500.00	5,754.90	5,677.95	21.58	31.60	0.31	921.49	302.37	1,471.43	1,424.57	46.86	31.400				
5,600.00	5,559.57	5,823.56	5,745.69	21.76	32.05	0.60	912.90	309.55	1,463.98	1,416.52	47.47	30.841				
5,700.00	5,659.57	5,923.31	5,844.03	22.05	32.73	1.03	900.06	320.27	1,451.19	1,402.76	48.42	29.969				
5,800.00	5,759.57	6,010.00	5,929.53	22.35	33.31	1.40	888.99	329.30	1,438.61	1,389.31	49.30	29.178				
5,900.00	5,859.57	6,105.00	6,023.45	22.65	33.91	1.76	877.71	338.06	1,426.94	1,376.74	50.20	28.423				
6,000.00	5,959.57	6,188.04	6,105.74	22.95	34.40	2.04	868.68	344.65	1,416.24	1,365.23	51.01	27.762				
6,100.00	6,059.57	6,272.28	6,189.28	23.26	34.89	2.33	860.12	351.29	1,406.36	1,354.54	51.83	27.136				
6,200.00	6,159.57	6,367.13	6,283.35	23.56	35.44	2.68	851.26	359.55	1,397.37	1,344.66	52.71	26.512				
6,300.00	6,259.57	6,466.51	6,381.94	23.87	36.01	3.05	842.01	367.99	1,388.46	1,334.84	53.62	25.896				
6,400.00	6,359.57	6,569.68	6,484.26	24.17	36.61	3.44	832.27	376.95	1,379.48	1,324.93	54.56	25.285				
6,500.00	6,459.57	6,670.05	6,583.78	24.48	37.20	3.83	822.57	385.64	1,370.35	1,314.86	55.49	24.696				
6,600.00	6,559.57	6,755.52	6,668.60	24.79	37.68	4.15	814.70	392.58	1,361.71	1,305.39	56.32	24.179				
6,700.00	6,659.57	6,844.65	6,757.19	25.10	38.16	4.44	807.40	399.06	1,354.06	1,296.91	57.15	23.694				
6,800.00	6,759.57	6,931.97	6,844.09	25.42	38.61	4.70	800.97	404.67	1,347.21	1,289.27	57.94	23.251				
6,900.00	6,859.57	7,023.74	6,935.54	25.73	39.06	4.93	795.06	409.65	1,341.24	1,282.50	58.74	22.835				
6,934.23	6,893.80	7,056.00	6,967.71	25.84	39.21	5.00	793.11	411.02	1,339.30	1,280.29	59.01	22.697				
6,950.00	6,909.57	7,056.00	6,967.71	25.89	39.21	4.42	793.11	411.02	1,338.33	1,279.29	59.04	22.668				
7,000.00	6,959.48	7,102.76	7,014.37	26.04	39.41	4.54	790.67	412.64	1,333.08	1,273.66	59.41	22.438				
7,050.00	7,009.07	7,138.01	7,049.59	26.18	39.56	4.65	789.29	413.56	1,324.97	1,265.26	59.70	22.192				
7,100.00	7,058.10	7,179.36	7,090.91	26.31	39.72	4.80	788.08	414.36	1,313.89	1,253.87	60.02	21.892				
7,150.00	7,106.32	7,224.26	7,135.79	26.44	39.89	4.99	786.91	415.12	1,299.59	1,239.25	60.34	21.536				
7,200.00	7,153.51	7,267.49	7,179.00	26.55	40.05	5.21	785.88	415.76	1,282.11	1,221.46	60.65	21.138				
7,250.00	7,199.44	7,308.86	7,220.36	26.66	40.20	5.49	785.04	416.28	1,261.57	1,200.63	60.94	20.700				
7,300.00	7,243.88	7,348.97	7,260.46	26.76	40.34	5.82	784.36	416.72	1,238.06	1,176.84	61.22	20.222				
7,350.00	7,286.61	7,387.95	7,299.44	26.85	40.48	6.22	783.83	417.07	1,211.68	1,150.20	61.49	19.706				
7,400.00	7,327.43	7,425.83	7,337.32	26.94	40.60	6.71	783.40	417.39	1,182.52	1,120.79	61.73	19.155				
7,450.00	7,366.13	7,461.84	7,373.32	27.02	40.72	7.31	783.08	417.70	1,150.71	1,088.74	61.97	18.569				
7,500.00	7,402.54	7,495.78	7,407.26	27.10	40.83	8.05	782.84	418.00	1,116.39	1,054.20	62.19	17.950				
7,550.00	7,436.46	7,529.70	7,441.17	27.18	40.94	9.00	782.63	418.30	1,079.69	1,017.27	62.42	17.298				
7,600.00	7,467.74	7,561.30	7,472.77	27.26	41.04	10.21	782.42	418.58	1,040.74	978.11	62.63	16.618				
7,650.00	7,496.23	7,590.00	7,501.47	27.34	41.13	11.77	782.22	418.84	999.73	936.91	62.82	15.913				
7,700.00	7,521.78	7,615.65	7,527.12	27.43	41.21	13.82	782.02	419.07	956.88	893.87	63.01	15.187				
7,750.00	7,544.27	7,637.79	7,549.26	27.53	41.28	16.59	781.85	419.27	912.40	849.22	63.18	14.442				
7,800.00	7,563.59	7,656.38	7,567.85	27.64	41.34	20.42	781.70	419.45	866.54	803.20	63.33	13.682				
7,850.00	7,579.65	7,671.80	7,583.27	27.76	41.39	25.94	781.59	419.60	819.52	756.04	63.48	12.910				
7,900.00	7,592.37	7,683.97	7,595.43	27.89	41.43	34.20	781.50	419.72	771.59	707.96	63.63	12.127				
7,950.00	7,601.69	7,692.80	7,604.26	28.04	41.45	46.81	781.44	419.81	722.98	659.21	63.77	11.337				
8,000.00	7,607.55	7,698.25	7,609.72	28.20	41.47	65.18	781.41	419.86	673.95	610.03	63.92	10.544				
8,050.00	7,609.94	7,700.29	7,611.75	28.37	41.48	87.38	781.40	419.88	624.75	560.68	64.07	9.751				
8,059.23	7,610.00	7,700.29	7,611.75	28.41	41.48	91.41	781.40	419.88	615.67	551.57	64.10	9.605				
8,100.00	7,610.00	7,700.03	7,611.49	28.56	41.48	91.28	781.40	419.88	575.63	511.39	64.24	8.960				
8,200.00	7,610.00	7,699.39	7,610.85	29.01	41.47	90.95	781.40	419.87	477.93	413.24	64.70	7.387				
8,300.00	7,610.00	7,698.75	7,610.21	29.54	41.47	90.62	781.41	419.87	381.43	316.04	65.39	5.833				
8,400.00	7,610.00	7,698.11	7,609.57	30.15	41.47	90.29	781.41	419.86	287.33	220.78	66.55	4.318				
8,500.00	7,610.00	7,697.46	7,608.93	30.83	41.47	89.96	781.41	419.85	199.07	130.41	68.66	2.899				
8,600.00	7,610.00	7,696.81	7,608.28	31.57	41.47	89.63	781.42	419.85	129.21	57.66	71.55	1.806				
8,664.67	7,610.00	7,696.39	7,607.86	32.09	41.47	89.42	781.42	419.84	111.87	42.18	69.69	1.605 CC, ES, SF				

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Sullivan 8-6-26 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 966-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,700.00	7,610.00	7,696.16	7,607.63	32.37	41.46	89.30	781.42	419.84	117.31	50.92	66.39	1.767	
8,800.00	7,610.00	7,695.51	7,606.97	33.23	41.46	88.96	781.43	419.83	175.58	114.97	60.61	2.897	
8,900.00	7,610.00	7,694.85	7,606.32	34.14	41.46	88.63	781.43	419.83	260.56	200.58	59.99	4.344	
9,000.00	7,610.00	7,694.19	7,605.66	35.10	41.46	88.29	781.44	419.82	353.49	293.26	60.23	5.869	
9,100.00	7,610.00	7,693.53	7,605.00	36.10	41.46	87.95	781.44	419.81	449.47	388.93	60.53	7.425	
9,200.00	7,610.00	7,692.87	7,604.33	37.15	41.45	87.61	781.44	419.81	546.88	486.10	60.79	8.997	
9,300.00	7,610.00	7,692.20	7,603.67	38.22	41.45	87.27	781.45	419.80	645.09	584.10	61.00	10.576	
9,400.00	7,610.00	7,691.53	7,602.99	39.33	41.45	86.93	781.45	419.79	743.78	682.61	61.16	12.160	
9,500.00	7,610.00	7,690.86	7,602.32	40.48	41.45	86.58	781.46	419.79	842.77	781.47	61.30	13.747	
9,600.00	7,610.00	7,690.18	7,601.65	41.65	41.45	86.24	781.46	419.78	941.98	880.55	61.42	15.336	
9,700.00	7,610.00	7,689.50	7,600.97	42.84	41.44	85.89	781.47	419.77	1,041.34	979.81	61.53	16.925	
9,800.00	7,610.00	7,688.82	7,600.28	44.06	41.44	85.54	781.47	419.77	1,140.81	1,079.19	61.62	18.514	
9,900.00	7,610.00	7,688.13	7,599.60	45.31	41.44	85.19	781.48	419.76	1,240.36	1,178.66	61.70	20.104	
10,000.00	7,610.00	7,687.45	7,598.91	46.57	41.44	84.84	781.48	419.75	1,339.98	1,278.21	61.77	21.692	
10,100.00	7,610.00	7,686.76	7,598.22	47.85	41.44	84.49	781.49	419.74	1,439.65	1,377.81	61.84	23.280	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4K-26H-P268
Project:	DJ BASIN	TVD Reference:	23' KB @ 4987.00usft
Reference Site:	S26-T2N-R68W	MD Reference:	23' KB @ 4987.00usft
Site Error:	0.00usft	North Reference:	Grid
Reference Well:	SULLIVAN 4K-26H-P268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Walsh 13-24 - CPR WELL - SURVEYS													Offset Site Error: 0.00 usft
Survey Program: 1240-ISCWSA MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
13,500.00	7,610.00	7,578.52	7,574.01	96.72	14.82	88.86	6,910.01	971.21	1,430.75	1,369.22	61.54	23.250	
13,600.00	7,610.00	7,586.36	7,581.73	98.23	14.84	89.59	6,910.65	970.01	1,340.63	1,276.41	64.22	20.875	
13,700.00	7,610.00	7,594.11	7,589.37	99.74	14.86	90.32	6,911.28	968.84	1,251.95	1,184.63	67.32	18.598	
13,800.00	7,610.00	7,601.78	7,596.92	101.26	14.88	91.05	6,911.90	967.68	1,165.05	1,094.16	70.90	16.433	
13,900.00	7,610.00	7,609.36	7,604.39	102.78	14.90	91.77	6,912.51	966.55	1,080.37	1,005.33	75.04	14.397	
14,000.00	7,610.00	7,616.85	7,611.78	104.30	14.92	92.48	6,913.11	965.44	998.47	918.64	79.83	12.508	
14,100.00	7,610.00	7,624.26	7,619.08	105.82	14.93	93.19	6,913.70	964.35	920.09	834.74	85.35	10.780	
14,200.00	7,610.00	7,631.59	7,626.31	107.34	14.95	93.89	6,914.28	963.29	846.20	754.56	91.65	9.233	
14,300.00	7,610.00	7,638.00	7,632.63	108.86	14.97	94.51	6,914.79	962.36	778.11	679.41	98.70	7.884	
14,400.00	7,610.00	7,645.44	7,639.98	110.39	14.99	95.22	6,915.36	961.30	717.45	611.16	106.30	6.750	
14,500.00	7,610.00	7,652.00	7,646.45	111.91	15.01	95.85	6,915.86	960.38	666.28	552.20	114.07	5.841	
14,600.00	7,610.00	7,658.89	7,653.25	113.44	15.02	96.52	6,916.38	959.43	626.91	505.61	121.30	5.168	
14,700.00	7,610.00	7,666.17	7,660.45	114.97	15.04	97.22	6,916.94	958.43	601.66	474.67	126.99	4.738	
14,800.00	7,610.00	7,673.65	7,667.83	116.50	15.06	97.94	6,917.51	957.40	592.34	462.13	130.21	4.549	
14,805.97	7,610.00	7,674.10	7,668.27	116.59	15.06	97.98	6,917.55	957.34	592.31	462.00	130.30	4.546 CC, ES	
14,823.68	7,610.00	7,675.45	7,669.60	116.86	15.07	98.11	6,917.65	957.15	592.57	462.04	130.53	4.540 SF	

Cathedral Energy Services

Anticollision Report

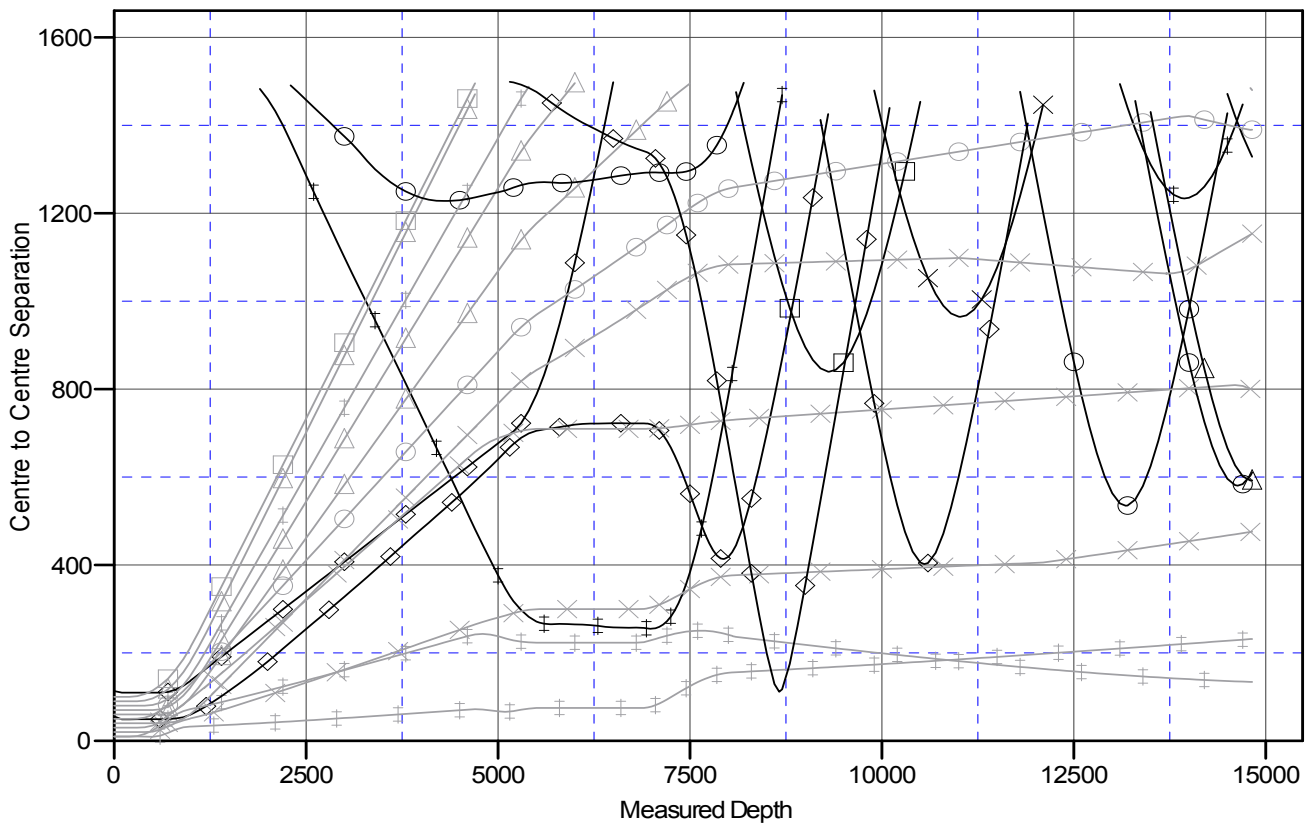
Company: Crestone Peak Resources
Project: DJ BASIN
Reference Site: S26-T2N-R68W
Site Error: 0.00usft
Reference Well: SULLIVAN 4K-26H-P268
Well Error: 0.00usft
Reference Wellbore: OH
Reference Design: PLAN #2

Local Co-ordinate Reference: Well SULLIVAN 4K-26H-P268
TVD Reference: 23' KB @ 4987.00usft
MD Reference: 23' KB @ 4987.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: USA EDM 5000 Multi Users DB
Offset TVD Reference: Offset Datum

Reference Depths are relative to 23' KB @ 4987.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: SULLIVAN 4K-26H-P268
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.35°

Ladder Plot



LEGEND

- | | | |
|------------------------------------------|------------------------------------|---------------------------------------|
| Bybee 5, Wellbore #1, PLAN#1 V0 | Sullivan 1, CPR, NO SURVEYS V0 | SULLIVAN4H-26H-P268, OH, PLAN#2 V0 |
| Duke State 30-36, KMG WELL, SURVEYS V0 | Sullivan 44-26, CPR WELL, GYRO V0 | SULLIVAN4I-26H-P268, OH, PLAN#2 V0 |
| GrantBros23-2AE, EXTRACTION, SURVEYS V0 | SULLIVAN4A-26H-P268, OH, PLAN#4 V0 | SULLIVAN4J-26H-P268, OH, PLAN#2 V0 |
| GrantBros23-43, EXTRACTION, SURVEYS V0 | SULLIVAN4B-26H-P268, OH, PLAN#4 V0 | SULLIVAN4L-26H-P268, OH, PLAN#2 V0 |
| GrantBros23-54, EXTRACTION, SURVEYS V0 | SULLIVAN4C-26H-P268, OH, PLAN#3 V0 | Sullivan 6-8-26, CPR, SURVEYS V0 |
| GrantBros42-26, CPR WELL, SURVEYS V0 | SULLIVAN4D-26H-P268, OH, PLAN#2 V0 | Sullivan 8-6-26, CPR WELL, SURVEYS V0 |
| GrantBrothers2-26, CPR, NO SURVEYS V0 | SULLIVAN4E-26H-P268, OH, PLAN#2 V0 | Walsh 13-24, CPR WELL, SURVEYS V0 |
| GrantBrothers44-23C, EXTRACTION, GYRO V0 | SULLIVAN4F-26H-P268, OH, PLAN#2 V0 | |
| Meredith 1, KPK WELL, NO SURVEYS V0 | SULLIVAN4G-26H-P268, OH, PLAN#2 V0 | |

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