



CRESTONE PEAK
RESOURCES

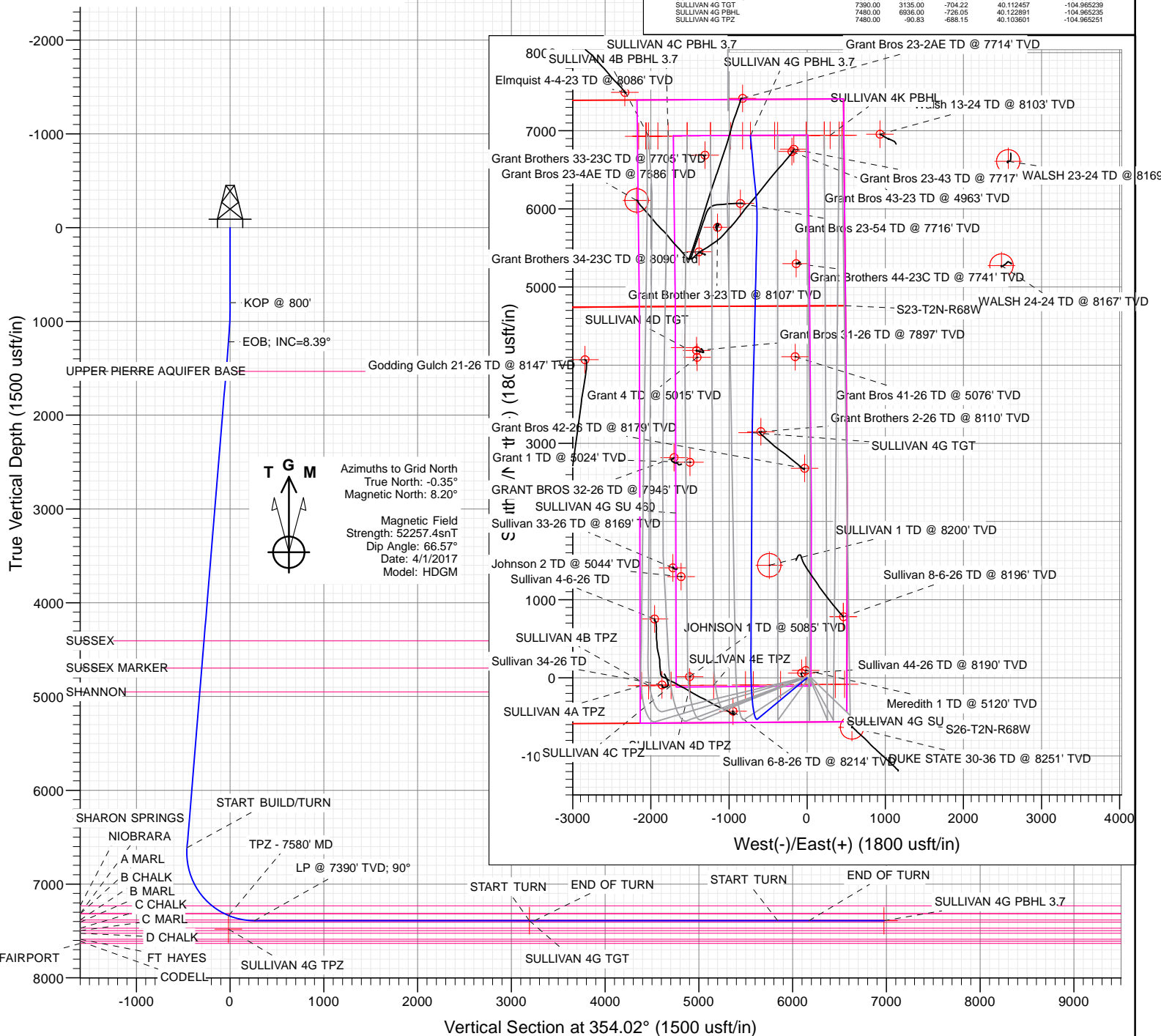
Project: DJ BASIN
Site: S26-T2N-R68W
Well: SULLIVAN 4G-26H-P268
Wellbore: OH
Design: PLAN #2

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	1219.68	8.39	230.25	1218.18	-19.62	-23.59	2.00	230.25	-17.06	
4	6671.38	8.39	230.25	6611.49	-528.44	-635.46	0.00	0.00	-459.41	
5	7863.75	90.00	0.30	7390.00	185.04	-719.67	8.00	129.74	258.96	
6	10813.75	90.00	0.30	7390.00	3135.00	-704.22	0.00	0.00	3191.28	SULLIVAN 4G TGT
7	10867.36	90.00	1.37	7390.00	3188.61	-703.44	2.00	90.00	3244.52	
8	13485.69	90.00	1.37	7390.00	5806.19	-640.73	0.00	0.00	5841.34	
9	13819.31	90.00	354.70	7390.00	6139.42	-652.16	2.00	-90.00	6173.95	
10	14619.31	90.00	354.70	7390.00	6936.00	-726.05	0.00	0.00	6973.90	SULLIVAN 4G PBHL 3.7

Well Name: SULLIVAN 4G-26H-P268
16XXX LR
23 KB @ 4967.00usft
Ground Level @ 4964.00
North American Datum 1983
Well SULLIVAN 4G-26H-P268, Grid North

Type	Target	No Target (Freehand)	Azimuth	Origin Type	N/S	E/W	From TVD	Name	TVD	+N/-S	+E/-W	Latitude	Longitude
TD			354.02	Spot	0.00	0.00	0.00	SULLIVAN 4G PBHL 3.7	7390.00	6936.00	-726.05	40.122891	-104.965235
								SULLIVAN 4G TGT	7390.00	3135.00	-704.22	40.112457	-104.965239
								SULLIVAN 4G PBHL	7480.00	6936.00	-726.05	40.122891	-104.965235
								SULLIVAN 4G TPZ	7480.00	-90.83	-688.15	40.103601	-104.965251



WELL DETAILS: SULLIVAN 4G-26H-P268

+N/-S	+E/-W	Northing	Ground Level:	4964.00	Latitude	Longitude
0.00	0.00	1281128.04	Easting	3150271.51	40.103839	-104.962789

CATHEDRAL



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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	
From:		Easting:		Latitude:	
Lat/Long		3,150,211.37 usft		40.103840	
Position Uncertainty:		Slot Radius:		Longitude:	
0.00 usft		13-3/16 "		-104.963004	
				Grid Convergence:	
				0.35 °	

Well	SULLIVAN 4G-26H-P268					
Well Position	+N/-S	0.00 usft	Northing:	1,281,128.04 usft	Latitude:	40.103839
	+E/-W	0.00 usft	Easting:	3,150,271.51 usft	Longitude:	-104.962789
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	354.02

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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,219.68	8.39	230.25	1,218.18	-19.62	-23.59	2.00	2.00	0.00	230.25	
6,671.38	8.39	230.25	6,611.49	-528.44	-635.46	0.00	0.00	0.00	0.00	
7,863.75	90.00	0.30	7,390.00	185.04	-719.67	8.00	6.84	10.91	129.74	
10,813.75	90.00	0.30	7,390.00	3,135.00	-704.22	0.00	0.00	0.00	0.00	SULLIVAN 4G TGT
10,867.36	90.00	1.37	7,390.00	3,188.61	-703.44	2.00	0.00	2.00	90.00	
13,485.69	90.00	1.37	7,390.00	5,806.19	-640.73	0.00	0.00	0.00	0.00	
13,819.31	90.00	354.70	7,390.00	6,139.42	-652.16	2.00	0.00	-2.00	-90.00	
14,619.31	90.00	354.70	7,390.00	6,936.00	-726.05	0.00	0.00	0.00	0.00	SULLIVAN 4G PBHL :

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	KOP @ 800'
900.00	2.00	230.25	899.98	-1.12	-1.34	-0.97	2.00	2.00	
1,000.00	4.00	230.25	999.84	-4.46	-5.37	-3.88	2.00	2.00	
1,100.00	6.00	230.25	1,099.45	-10.03	-12.07	-8.72	2.00	2.00	
1,200.00	8.00	230.25	1,198.70	-17.83	-21.44	-15.50	2.00	2.00	
1,219.68	8.39	230.25	1,218.18	-19.62	-23.59	-17.06	2.00	2.00	EOB; INC=8.39°
1,300.00	8.39	230.25	1,297.64	-27.12	-32.61	-23.57	0.00	0.00	
1,400.00	8.39	230.25	1,396.57	-36.45	-43.83	-31.69	0.00	0.00	
1,500.00	8.39	230.25	1,495.50	-45.78	-55.06	-39.80	0.00	0.00	
1,537.91	8.39	230.25	1,533.00	-49.32	-59.31	-42.88	0.00	0.00	UPPER PIERRE AQUIFER BASE
1,600.00	8.39	230.25	1,594.43	-55.12	-66.28	-47.92	0.00	0.00	
1,700.00	8.39	230.25	1,693.36	-64.45	-77.50	-56.03	0.00	0.00	
1,800.00	8.39	230.25	1,792.28	-73.78	-88.73	-64.14	0.00	0.00	
1,900.00	8.39	230.25	1,891.21	-83.12	-99.95	-72.26	0.00	0.00	
2,000.00	8.39	230.25	1,990.14	-92.45	-111.17	-80.37	0.00	0.00	
2,100.00	8.39	230.25	2,089.07	-101.78	-122.40	-88.49	0.00	0.00	
2,200.00	8.39	230.25	2,188.00	-111.12	-133.62	-96.60	0.00	0.00	
2,300.00	8.39	230.25	2,286.93	-120.45	-144.84	-104.72	0.00	0.00	
2,400.00	8.39	230.25	2,385.86	-129.78	-156.07	-112.83	0.00	0.00	
2,500.00	8.39	230.25	2,484.79	-139.12	-167.29	-120.94	0.00	0.00	
2,600.00	8.39	230.25	2,583.72	-148.45	-178.51	-129.06	0.00	0.00	
2,700.00	8.39	230.25	2,682.64	-157.78	-189.74	-137.17	0.00	0.00	
2,800.00	8.39	230.25	2,781.57	-167.12	-200.96	-145.29	0.00	0.00	
2,900.00	8.39	230.25	2,880.50	-176.45	-212.18	-153.40	0.00	0.00	
3,000.00	8.39	230.25	2,979.43	-185.78	-223.41	-161.51	0.00	0.00	
3,100.00	8.39	230.25	3,078.36	-195.12	-234.63	-169.63	0.00	0.00	
3,200.00	8.39	230.25	3,177.29	-204.45	-245.85	-177.74	0.00	0.00	
3,300.00	8.39	230.25	3,276.22	-213.78	-257.08	-185.86	0.00	0.00	
3,400.00	8.39	230.25	3,375.15	-223.12	-268.30	-193.97	0.00	0.00	
3,500.00	8.39	230.25	3,474.08	-232.45	-279.52	-202.08	0.00	0.00	
3,600.00	8.39	230.25	3,573.00	-241.78	-290.75	-210.20	0.00	0.00	
3,700.00	8.39	230.25	3,671.93	-251.11	-301.97	-218.31	0.00	0.00	
3,800.00	8.39	230.25	3,770.86	-260.45	-313.20	-226.43	0.00	0.00	
3,900.00	8.39	230.25	3,869.79	-269.78	-324.42	-234.54	0.00	0.00	
4,000.00	8.39	230.25	3,968.72	-279.11	-335.64	-242.65	0.00	0.00	
4,100.00	8.39	230.25	4,067.65	-288.45	-346.87	-250.77	0.00	0.00	
4,200.00	8.39	230.25	4,166.58	-297.78	-358.09	-258.88	0.00	0.00	
4,300.00	8.39	230.25	4,265.51	-307.11	-369.31	-267.00	0.00	0.00	
4,400.00	8.39	230.25	4,364.44	-316.45	-380.54	-275.11	0.00	0.00	
4,442.01	8.39	230.25	4,406.00	-320.37	-385.25	-278.52	0.00	0.00	SUSSEX
4,500.00	8.39	230.25	4,463.36	-325.78	-391.76	-283.22	0.00	0.00	
4,600.00	8.39	230.25	4,562.29	-335.11	-402.98	-291.34	0.00	0.00	
4,700.00	8.39	230.25	4,661.22	-344.45	-414.21	-299.45	0.00	0.00	
4,735.15	8.39	230.25	4,696.00	-347.73	-418.15	-302.31	0.00	0.00	SUSSEX MARKER

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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	8.39	230.25	4,760.15	-353.78	-425.43	-307.57	0.00	0.00	
4,900.00	8.39	230.25	4,859.08	-363.11	-436.65	-315.68	0.00	0.00	
4,991.90	8.39	230.25	4,950.00	-371.69	-446.97	-323.14	0.00	0.00	SHANNON
5,000.00	8.39	230.25	4,958.01	-372.45	-447.88	-323.79	0.00	0.00	
5,100.00	8.39	230.25	5,056.94	-381.78	-459.10	-331.91	0.00	0.00	
5,200.00	8.39	230.25	5,155.87	-391.11	-470.32	-340.02	0.00	0.00	
5,300.00	8.39	230.25	5,254.80	-400.45	-481.55	-348.14	0.00	0.00	
5,400.00	8.39	230.25	5,353.72	-409.78	-492.77	-356.25	0.00	0.00	
5,500.00	8.39	230.25	5,452.65	-419.11	-503.99	-364.37	0.00	0.00	
5,600.00	8.39	230.25	5,551.58	-428.45	-515.22	-372.48	0.00	0.00	
5,700.00	8.39	230.25	5,650.51	-437.78	-526.44	-380.59	0.00	0.00	
5,800.00	8.39	230.25	5,749.44	-447.11	-537.66	-388.71	0.00	0.00	
5,900.00	8.39	230.25	5,848.37	-456.45	-548.89	-396.82	0.00	0.00	
6,000.00	8.39	230.25	5,947.30	-465.78	-560.11	-404.94	0.00	0.00	
6,100.00	8.39	230.25	6,046.23	-475.11	-571.34	-413.05	0.00	0.00	
6,200.00	8.39	230.25	6,145.16	-484.45	-582.56	-421.16	0.00	0.00	
6,300.00	8.39	230.25	6,244.08	-493.78	-593.78	-429.28	0.00	0.00	
6,400.00	8.39	230.25	6,343.01	-503.11	-605.01	-437.39	0.00	0.00	
6,500.00	8.39	230.25	6,441.94	-512.45	-616.23	-445.51	0.00	0.00	
6,600.00	8.39	230.25	6,540.87	-521.78	-627.45	-453.62	0.00	0.00	
6,671.38	8.39	230.25	6,611.49	-528.44	-635.46	-459.41	0.00	0.00	START BUILD/TURN
6,700.00	7.15	244.54	6,639.85	-530.54	-638.68	-461.17	8.00	-4.35	
6,800.00	8.09	307.67	6,739.12	-528.91	-649.88	-458.38	8.00	0.94	
6,900.00	14.40	334.19	6,837.21	-513.40	-660.88	-441.80	8.00	6.31	
7,000.00	21.83	343.92	6,932.21	-484.29	-671.46	-411.76	8.00	7.43	
7,100.00	29.55	348.81	7,022.27	-442.17	-681.41	-368.83	8.00	7.72	
7,200.00	37.38	351.80	7,105.63	-387.85	-690.54	-313.85	8.00	7.83	
7,300.00	45.26	353.87	7,180.68	-322.38	-698.68	-247.89	8.00	7.88	
7,375.61	51.24	355.10	7,231.00	-266.26	-704.07	-191.52	8.00	7.91	SHARON SPRINGS
7,400.00	53.17	355.45	7,245.95	-247.05	-705.66	-172.24	8.00	7.92	
7,500.00	61.10	356.73	7,300.17	-163.32	-711.34	-88.37	8.00	7.93	
7,527.51	63.28	357.04	7,313.00	-139.02	-712.67	-64.07	8.00	7.94	NIOBRARA
7,536.52	64.00	357.14	7,317.00	-130.96	-713.07	-56.01	8.00	7.94	A MARL
7,580.59	67.50	357.62	7,335.10	-90.83	-714.91	-15.90	8.00	7.94	TPZ - 7580' MD
7,600.00	69.04	357.82	7,342.29	-72.81	-715.63	2.09	8.00	7.94	
7,700.00	76.98	358.80	7,371.48	22.71	-718.42	97.38	8.00	7.94	
7,763.21	82.01	359.39	7,383.00	84.83	-719.40	159.27	8.00	7.95	B CHALK
7,800.00	84.93	359.73	7,387.18	121.38	-719.68	195.64	8.00	7.95	
7,863.75	90.00	0.30	7,390.00	185.04	-719.67	258.96	8.00	7.95	LP @ 7390' TVD; 90°
7,900.00	90.00	0.30	7,390.00	221.29	-719.48	295.00	0.00	0.00	
8,000.00	90.00	0.30	7,390.00	321.29	-718.95	394.40	0.00	0.00	
8,100.00	90.00	0.30	7,390.00	421.29	-718.43	493.80	0.00	0.00	
8,200.00	90.00	0.30	7,390.00	521.29	-717.91	593.20	0.00	0.00	
8,300.00	90.00	0.30	7,390.00	621.29	-717.38	692.60	0.00	0.00	
8,400.00	90.00	0.30	7,390.00	721.29	-716.86	792.00	0.00	0.00	
8,500.00	90.00	0.30	7,390.00	821.29	-716.33	891.40	0.00	0.00	
8,600.00	90.00	0.30	7,390.00	921.28	-715.81	990.80	0.00	0.00	
8,700.00	90.00	0.30	7,390.00	1,021.28	-715.29	1,090.20	0.00	0.00	
8,800.00	90.00	0.30	7,390.00	1,121.28	-714.76	1,189.60	0.00	0.00	
8,900.00	90.00	0.30	7,390.00	1,221.28	-714.24	1,289.00	0.00	0.00	
9,000.00	90.00	0.30	7,390.00	1,321.28	-713.72	1,388.40	0.00	0.00	
9,100.00	90.00	0.30	7,390.00	1,421.28	-713.19	1,487.80	0.00	0.00	

Cathedral Energy Services

Planning Report

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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 4G-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
9,200.00	90.00	0.30	7,390.00	1,521.28	-712.67	1,587.20	0.00	0.00	
9,300.00	90.00	0.30	7,390.00	1,621.27	-712.15	1,686.61	0.00	0.00	
9,400.00	90.00	0.30	7,390.00	1,721.27	-711.62	1,786.01	0.00	0.00	
9,500.00	90.00	0.30	7,390.00	1,821.27	-711.10	1,885.41	0.00	0.00	
9,600.00	90.00	0.30	7,390.00	1,921.27	-710.58	1,984.81	0.00	0.00	
9,700.00	90.00	0.30	7,390.00	2,021.27	-710.05	2,084.21	0.00	0.00	
9,800.00	90.00	0.30	7,390.00	2,121.27	-709.53	2,183.61	0.00	0.00	
9,900.00	90.00	0.30	7,390.00	2,221.27	-709.00	2,283.01	0.00	0.00	
10,000.00	90.00	0.30	7,390.00	2,321.26	-708.48	2,382.41	0.00	0.00	
10,100.00	90.00	0.30	7,390.00	2,421.26	-707.96	2,481.81	0.00	0.00	
10,200.00	90.00	0.30	7,390.00	2,521.26	-707.43	2,581.21	0.00	0.00	
10,300.00	90.00	0.30	7,390.00	2,621.26	-706.91	2,680.61	0.00	0.00	
10,400.00	90.00	0.30	7,390.00	2,721.26	-706.39	2,780.01	0.00	0.00	
10,500.00	90.00	0.30	7,390.00	2,821.26	-705.86	2,879.41	0.00	0.00	
10,600.00	90.00	0.30	7,390.00	2,921.26	-705.34	2,978.81	0.00	0.00	
10,700.00	90.00	0.30	7,390.00	3,021.26	-704.82	3,078.22	0.00	0.00	
10,800.00	90.00	0.30	7,390.00	3,121.25	-704.29	3,177.62	0.00	0.00	
10,813.75	90.00	0.30	7,390.00	3,135.00	-704.22	3,191.28	0.00	0.00	START TURN
10,867.36	90.00	1.37	7,390.00	3,188.61	-703.44	3,244.52	2.00	0.00	END OF TURN
10,900.00	90.00	1.37	7,390.00	3,221.24	-702.66	3,276.89	0.00	0.00	
11,000.00	90.00	1.37	7,390.00	3,321.21	-700.26	3,376.07	0.00	0.00	
11,100.00	90.00	1.37	7,390.00	3,421.18	-697.87	3,475.24	0.00	0.00	
11,200.00	90.00	1.37	7,390.00	3,521.15	-695.47	3,574.42	0.00	0.00	
11,300.00	90.00	1.37	7,390.00	3,621.12	-693.08	3,673.60	0.00	0.00	
11,400.00	90.00	1.37	7,390.00	3,721.09	-690.68	3,772.78	0.00	0.00	
11,500.00	90.00	1.37	7,390.00	3,821.07	-688.29	3,871.96	0.00	0.00	
11,600.00	90.00	1.37	7,390.00	3,921.04	-685.89	3,971.14	0.00	0.00	
11,700.00	90.00	1.37	7,390.00	4,021.01	-683.50	4,070.32	0.00	0.00	
11,800.00	90.00	1.37	7,390.00	4,120.98	-681.10	4,169.49	0.00	0.00	
11,900.00	90.00	1.37	7,390.00	4,220.95	-678.71	4,268.67	0.00	0.00	
12,000.00	90.00	1.37	7,390.00	4,320.92	-676.31	4,367.85	0.00	0.00	
12,100.00	90.00	1.37	7,390.00	4,420.89	-673.92	4,467.03	0.00	0.00	
12,200.00	90.00	1.37	7,390.00	4,520.86	-671.52	4,566.21	0.00	0.00	
12,300.00	90.00	1.37	7,390.00	4,620.84	-669.13	4,665.39	0.00	0.00	
12,400.00	90.00	1.37	7,390.00	4,720.81	-666.73	4,764.57	0.00	0.00	
12,500.00	90.00	1.37	7,390.00	4,820.78	-664.34	4,863.75	0.00	0.00	
12,600.00	90.00	1.37	7,390.00	4,920.75	-661.94	4,962.92	0.00	0.00	
12,700.00	90.00	1.37	7,390.00	5,020.72	-659.55	5,062.10	0.00	0.00	
12,800.00	90.00	1.37	7,390.00	5,120.69	-657.15	5,161.28	0.00	0.00	
12,900.00	90.00	1.37	7,390.00	5,220.66	-654.76	5,260.46	0.00	0.00	
13,000.00	90.00	1.37	7,390.00	5,320.64	-652.36	5,359.64	0.00	0.00	
13,100.00	90.00	1.37	7,390.00	5,420.61	-649.97	5,458.82	0.00	0.00	
13,200.00	90.00	1.37	7,390.00	5,520.58	-647.57	5,558.00	0.00	0.00	
13,300.00	90.00	1.37	7,390.00	5,620.55	-645.18	5,657.18	0.00	0.00	
13,400.00	90.00	1.37	7,390.00	5,720.52	-642.78	5,756.35	0.00	0.00	
13,485.69	90.00	1.37	7,390.00	5,806.19	-640.73	5,841.34	0.00	0.00	START TURN
13,500.00	90.00	1.09	7,390.00	5,820.49	-640.42	5,855.54	2.00	0.00	
13,600.00	90.00	359.09	7,390.00	5,920.49	-640.27	5,954.97	2.00	0.00	
13,700.00	90.00	357.09	7,390.00	6,020.43	-643.61	6,054.72	2.00	0.00	
13,800.00	90.00	355.09	7,390.00	6,120.19	-650.44	6,154.65	2.00	0.00	
13,819.31	90.00	354.70	7,390.00	6,139.42	-652.16	6,173.95	2.00	0.00	END OF TURN
13,900.00	90.00	354.70	7,390.00	6,219.77	-659.61	6,254.64	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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
14,000.00	90.00	354.70	7,390.00	6,319.34	-668.85	6,354.63	0.00	0.00	
14,100.00	90.00	354.70	7,390.00	6,418.91	-678.08	6,454.63	0.00	0.00	
14,200.00	90.00	354.70	7,390.00	6,518.48	-687.32	6,554.62	0.00	0.00	
14,300.00	90.00	354.70	7,390.00	6,618.06	-696.56	6,654.61	0.00	0.00	
14,400.00	90.00	354.70	7,390.00	6,717.63	-705.80	6,754.60	0.00	0.00	
14,500.00	90.00	354.70	7,390.00	6,817.20	-715.03	6,854.60	0.00	0.00	
14,600.00	90.00	354.70	7,390.00	6,916.77	-724.27	6,954.59	0.00	0.00	
14,619.31	90.00	354.70	7,390.00	6,936.00	-726.05	6,973.90	0.00	0.00	TD at 14619.31

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 4G TGT - plan hits target center - Point	0.00	0.00	7,390.00	3,135.00	-704.22	1,284,263.04	3,149,567.29	40.112457	-104.965239
SULLIVAN 4G PBHL - plan misses target center by 90.00usft at 14619.31usft MD (7390.00 TVD, 6936.00 N, -726.05 E) - Point	0.00	0.00	7,480.00	6,936.00	-726.05	1,288,064.04	3,149,545.46	40.122891	-104.965235
SULLIVAN 4G TPZ - plan misses target center by 138.67usft at 7622.26usft MD (7349.93 TVD, -51.92 N, -716.38 E) - Point	0.00	0.00	7,480.00	-90.83	-688.15	1,281,037.21	3,149,583.36	40.103601	-104.965251
SULLIVAN 4G PBHL 3.7 - plan hits target center - Point	0.00	0.00	7,390.00	6,936.00	-726.05	1,288,064.04	3,149,545.46	40.122891	-104.965235

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,537.91	1,533.00	UPPER PIERRE AQUIFER BASE			
4,442.01	4,406.00	SUSSEX			
4,735.15	4,696.00	SUSSEX MARKER			
4,991.90	4,950.00	SHANNON			
7,375.61	7,231.00	SHARON SPRINGS			
7,527.51	7,313.00	NIOBRARA			
7,536.52	7,317.00	A MARL			
7,763.21	7,383.00	B CHALK			

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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)	
800.00	800.00	0.00	0.00	KOP @ 800'
1,219.68	1,218.18	-19.62	-23.59	EOB; INC=8.39°
6,671.38	6,611.49	-528.44	-635.46	START BUILD/TURN
7,580.59	7,335.10	-90.83	-714.91	TPZ - 7580' MD
7,863.75	7,390.00	185.04	-719.67	LP @ 7390' TVD; 90°
10,813.75	7,390.00	3,135.00	-704.22	START TURN
10,867.36	7,390.00	3,188.61	-703.44	END OF TURN
13,485.69	7,390.00	5,806.19	-640.73	START TURN
13,819.31	7,390.00	6,139.42	-652.16	END OF TURN
14,619.31	7,390.00	6,936.00	-726.05	TD at 14619.31

Crestone Peak Resources

DJ BASIN

S26-T2N-R68W

SULLIVAN 4G-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 4G-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 4G-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	14,625.12	PLAN #2 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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	14,625.12	12,639.47	431.09	291.30	3.084	CC, ES, SF
Duke State 30-36 - KMG WELL - SURVEYS	5,370.58	5,483.83	1,067.16	1,020.09	22.669	CC
Duke State 30-36 - KMG WELL - SURVEYS	5,400.00	5,507.32	1,067.25	1,019.92	22.550	ES
Duke State 30-36 - KMG WELL - SURVEYS	6,950.00	6,990.01	1,192.71	1,134.48	20.482	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
Godding 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	14,625.12	7,741.16	491.95	428.67	7.774	CC, ES, SF
Grant Bros 23-43 - EXTRACTION - SURVEYS	14,427.01	7,640.35	548.51	404.07	3.797	CC, ES
Grant Bros 23-43 - EXTRACTION - SURVEYS	14,500.00	7,641.66	553.35	406.93	3.779	SF
Grant Bros 23-4AE - EXTRACTION - SURVEYS	13,843.15	7,427.89	1,477.53	1,351.19	11.694	CC
Grant Bros 23-4AE - EXTRACTION - SURVEYS	13,900.00	7,428.24	1,478.62	1,351.12	11.597	ES
Grant Bros 23-4AE - EXTRACTION - SURVEYS	14,000.00	7,428.85	1,485.83	1,356.67	11.504	SF
Grant Bros 23-54 - EXTRACTION - SURVEYS	13,762.58	7,452.70	133.91	9.11	1.073	Level 2, CC, ES, SF
Grant Bros 31-26 - CPR WELL - GYRO	11,874.85	7,330.34	730.40	642.19	8.280	CC
Grant Bros 31-26 - CPR WELL - GYRO	11,900.00	7,330.43	730.83	642.12	8.238	ES, SF
Grant Bros 32-26 - CPR - GYRO	10,501.09	7,354.76	1,027.91	959.49	15.025	CC, ES
Grant Bros 32-26 - CPR - GYRO	10,700.00	7,358.20	1,046.97	975.82	14.715	SF
Grant Bros 3-23 - CPR WELL - SURVEYS	13,463.85	7,345.47	455.30	349.53	4.305	CC, ES
Grant Bros 3-23 - CPR WELL - SURVEYS	13,500.00	7,344.84	456.73	350.28	4.291	SF
Grant Bros 41-26 - SUNDANCE WELL - NO SURVEYS						Out of range
Grant Bros 42-26 - CPR WELL - SURVEYS	10,360.47	7,416.11	646.49	575.31	9.083	CC, ES, SF
Grant Bros 43-23 - SUNDANCE WELL - NO SURVEYS						Out of range
Grant Brothers 2-26 - CPR - NO SURVEYS	10,837.49	7,347.99	91.84	18.64	1.255	Level 3, CC, ES, SF
Grant Brothers 33-23C - EXTRACTION - NO SURVEYS	14,394.45	7,313.99	588.96	462.31	4.650	CC
Grant Brothers 33-23C - EXTRACTION - NO SURVEYS	14,400.00	7,313.99	588.99	462.23	4.646	ES, SF
Grant Brothers 34-23C - EXTRACTION - GYRO	13,139.52	7,327.73	681.80	575.25	6.399	CC, ES
Grant Brothers 34-23C - EXTRACTION - GYRO	13,200.00	7,327.98	684.48	576.91	6.363	SF
Grant Brothers 44-23C - EXTRACTION - GYRO	12,986.18	7,360.70	555.17	450.80	5.319	CC, ES
Grant Brothers 44-23C - EXTRACTION - GYRO	13,000.00	7,360.65	555.34	450.92	5.318	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	5,246.95	5,085.00	1,150.06	1,120.73	39.212	CC, ES
Johnson 1 - KPK - NO SURVEYS	5,300.00	5,085.00	1,151.29	1,121.80	39.047	SF
Johnson 2 - KPK WELL - NO SURVEYS						Out of range
Meredith 1 - KPK WELL - NO SURVEYS	800.00	771.99	94.96	90.96	23.770	CC, ES
Meredith 1 - KPK WELL - NO SURVEYS	1,204.08	1,174.73	112.55	106.46	18.489	SF

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 4G-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 4G-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						
Puritan 6-4-34 - CPR WELL - SURVEYS						Out of range
Sullivan 1 - CPR - NO SURVEYS						
Sullivan 33-26 - CPR WELL - SURVEYS	9,127.65	7,374.00	190.00	143.56	4.092	CC, ES, SF
Sullivan 33-26 - CPR WELL - SURVEYS	9,104.31	7,349.73	1,045.54	1,000.34	23.129	CC, ES
Sullivan 33-26 - CPR WELL - SURVEYS	9,300.00	7,348.52	1,063.70	1,016.32	22.454	SF
Sullivan 34-26 - CPR WELL - SURVEYS	7,627.82	7,311.05	1,192.99	1,152.75	29.647	CC, ES
Sullivan 34-26 - CPR WELL - SURVEYS	7,700.00	7,330.58	1,195.40	1,154.98	29.575	SF
Sullivan 44-26 - CPR WELL - GYRO	1,142.44	1,115.70	10.05	4.28	1.743	CC, ES, SF
Sullivan 4-6-26 - CPR WELL - SURVEYS	8,437.48	7,436.53	1,281.56	1,231.79	25.750	CC, ES
Sullivan 4-6-26 - CPR WELL - SURVEYS	8,700.00	7,439.93	1,308.16	1,255.86	25.012	SF
SULLIVAN 4A-26H-P268 - OH - PLAN #4	200.00	200.00	60.14	59.15	60.569	CC, ES
SULLIVAN 4A-26H-P268 - OH - PLAN #4	14,625.12	15,139.64	1,346.12	1,116.94	5.874	SF
SULLIVAN 4B-26H-P268 - OH - PLAN #4	300.00	300.00	50.07	48.36	29.284	CC, ES
SULLIVAN 4B-26H-P268 - OH - PLAN #4	14,625.12	14,710.62	1,301.06	1,068.06	5.584	SF
SULLIVAN 4C-26H-P268 - OH - PLAN #3	400.00	400.00	40.00	37.58	16.483	CC, ES
SULLIVAN 4C-26H-P268 - OH - PLAN #3	14,625.12	14,901.25	1,056.72	824.19	4.544	SF
SULLIVAN 4D-26H-P268 - OH - PLAN #2	500.00	500.00	30.21	27.07	9.610	CC, ES
SULLIVAN 4D-26H-P268 - OH - PLAN #2	14,625.12	14,745.41	809.86	576.12	3.465	SF
SULLIVAN 4E-26H-P268 - OH - PLAN #2	600.00	600.00	20.14	16.28	5.217	CC, ES
SULLIVAN 4E-26H-P268 - OH - PLAN #2	14,625.12	14,622.60	517.96	288.94	2.262	SF
SULLIVAN 4F-26H-P268 - OH - PLAN #2	200.00	200.00	10.07	9.08	10.142	CC, ES
SULLIVAN 4F-26H-P268 - OH - PLAN #2	14,625.12	14,856.87	335.34	146.29	1.774	SF
SULLIVAN 4H-26H-P268 - OH - PLAN #2	213.83	214.83	9.79	8.70	8.953	CC
SULLIVAN 4H-26H-P268 - OH - PLAN #2	300.00	300.96	9.94	8.24	5.851	ES
SULLIVAN 4H-26H-P268 - OH - PLAN #2	14,625.12	14,701.02	358.27	128.44	1.559	SF
SULLIVAN 4I-26H-P268 - OH - PLAN #2	300.00	300.00	19.86	18.15	11.615	CC
SULLIVAN 4I-26H-P268 - OH - PLAN #2	400.00	399.95	19.96	17.55	8.280	ES
SULLIVAN 4I-26H-P268 - OH - PLAN #2	14,625.12	14,595.72	715.06	479.97	3.042	SF
SULLIVAN 4J-26H-P268 - OH - PLAN #2	304.33	304.33	29.93	28.19	17.192	CC
SULLIVAN 4J-26H-P268 - OH - PLAN #2	400.00	399.79	30.10	27.68	12.444	ES
SULLIVAN 4J-26H-P268 - OH - PLAN #2	14,625.12	14,691.86	949.21	714.80	4.049	SF
SULLIVAN 4K-26H-P268 - OH - PLAN #2	600.00	600.00	40.00	36.14	10.361	CC, ES
SULLIVAN 4K-26H-P268 - OH - PLAN #2	14,625.12	14,806.62	1,158.01	927.05	5.014	SF
SULLIVAN 4L-26H-P268 - OH - PLAN #2	200.00	200.00	49.79	48.80	50.145	CC, ES
SULLIVAN 4L-26H-P268 - OH - PLAN #2	14,625.12	14,647.70	1,173.51	939.28	5.010	SF
Sullivan 6-8-26 - CPR - SURVEYS	7,213.97	7,214.78	321.47	279.39	7.639	CC, ES
Sullivan 6-8-26 - CPR - SURVEYS	7,300.00	7,279.73	327.18	283.67	7.519	SF
Sullivan 8-6-26 - CPR WELL - SURVEYS	8,465.76	7,467.76	1,129.32	1,060.69	16.455	CC, ES, SF
Walsh 13-24 - CPR WELL - SURVEYS						Out of range
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 4G-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 4G-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 Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	7,390.00	12,639.47	7,272.00	100.08	87.87	-83.29	7,256.20	-1,012.43	1,479.04	1,413.95	65.09	22.723		
13,600.00	7,390.00	12,639.47	7,272.00	101.61	87.87	-83.29	7,256.20	-1,012.43	1,381.39	1,314.68	66.71	20.707		
13,700.00	7,390.00	12,639.47	7,272.00	103.14	87.87	-83.29	7,256.20	-1,012.43	1,284.10	1,215.42	68.68	18.696		
13,748.73	7,390.00	12,639.47	7,272.00	103.89	87.87	-83.29	7,256.20	-1,012.43	1,236.85	1,167.05	69.80	17.720		
13,800.00	7,390.00	12,639.47	7,272.00	104.67	87.87	-82.80	7,256.20	-1,012.43	1,187.15	1,116.08	71.07	16.705		
13,821.47	7,390.00	12,639.47	7,272.00	105.01	87.87	-82.58	7,256.20	-1,012.43	1,166.30	1,094.69	71.61	16.287		
13,900.00	7,390.00	12,639.47	7,272.00	106.23	87.87	-82.58	7,256.20	-1,012.43	1,090.21	1,016.42	73.80	14.773		
14,000.00	7,390.00	12,639.47	7,272.00	107.78	87.87	-82.58	7,256.20	-1,012.43	993.87	916.65	77.21	12.872		
14,100.00	7,390.00	12,639.47	7,272.00	109.34	87.87	-82.58	7,256.20	-1,012.43	898.32	816.77	81.54	11.016		
14,200.00	7,390.00	12,639.47	7,272.00	110.89	87.87	-82.58	7,256.20	-1,012.43	803.85	716.73	87.12	9.227		
14,300.00	7,390.00	12,639.47	7,272.00	112.45	87.87	-82.58	7,256.20	-1,012.43	710.90	616.48	94.42	7.529		
14,400.00	7,390.00	12,639.47	7,272.00	114.01	87.87	-82.58	7,256.20	-1,012.43	620.15	516.05	104.09	5.958		
14,500.00	7,390.00	12,639.47	7,272.00	115.57	87.87	-82.58	7,256.20	-1,012.43	532.71	415.63	117.09	4.550		
14,600.00	7,390.00	12,639.47	7,272.00	117.14	87.87	-82.58	7,256.20	-1,012.43	450.54	315.98	134.56	3.348		
14,625.12	7,390.00	12,639.47	7,272.00	117.53	87.87	-82.58	7,256.20	-1,012.43	431.09	291.30	139.79	3.084	CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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
2,800.00	2,782.81	3,158.61	3,130.16	10.37	14.79	-103.25	-1,008.74	977.74	1,479.55	1,456.77	22.78	64.950	
2,900.00	2,881.82	3,245.76	3,214.54	10.78	15.45	-103.85	-993.90	961.83	1,457.79	1,434.18	23.61	61.739	
3,000.00	2,980.83	3,332.49	3,298.67	11.19	16.11	-104.47	-979.38	946.53	1,436.90	1,412.45	24.45	58.766	
3,100.00	3,079.83	3,414.33	3,378.23	11.60	16.72	-105.04	-966.67	932.14	1,416.95	1,391.67	25.28	56.052	
3,200.00	3,178.84	3,516.98	3,478.20	12.02	17.49	-105.76	-951.43	914.50	1,397.91	1,371.76	26.15	53.452	
3,300.00	3,277.85	3,616.89	3,575.24	12.43	18.27	-106.53	-935.16	897.18	1,378.14	1,351.10	27.04	50.967	
3,400.00	3,376.85	3,718.43	3,673.86	12.84	19.07	-107.35	-918.14	879.98	1,358.70	1,330.76	27.94	48.625	
3,500.00	3,475.86	3,816.80	3,769.34	13.25	19.85	-108.13	-902.44	862.31	1,339.06	1,310.22	28.84	46.438	
3,600.00	3,574.87	3,907.36	3,857.31	13.67	20.56	-108.82	-888.69	845.77	1,319.80	1,290.09	29.71	44.417	
3,700.00	3,673.87	4,010.83	3,957.75	14.08	21.40	-109.72	-871.56	827.83	1,300.89	1,270.25	30.64	42.456	
3,800.00	3,772.88	4,106.55	4,050.51	14.49	22.19	-110.63	-854.47	811.49	1,281.87	1,250.29	31.58	40.592	
3,900.00	3,871.89	4,202.20	4,143.24	14.91	22.98	-111.55	-837.60	795.17	1,263.30	1,230.77	32.53	38.839	
4,000.00	3,970.90	4,308.43	4,246.09	15.32	23.88	-112.63	-818.29	776.88	1,244.69	1,211.17	33.51	37.141	
4,100.00	4,069.90	4,400.00	4,334.61	15.74	24.66	-113.62	-800.90	761.23	1,226.20	1,191.71	34.50	35.544	
4,200.00	4,168.91	4,487.34	4,419.26	16.15	25.39	-114.55	-785.34	746.43	1,208.75	1,173.28	35.48	34.072	
4,300.00	4,267.92	4,617.18	4,544.94	16.57	26.50	-115.86	-763.81	721.97	1,190.49	1,154.00	36.50	32.618	
4,400.00	4,366.92	4,710.32	4,634.79	16.98	27.32	-116.86	-747.41	703.66	1,171.46	1,133.95	37.51	31.234	
4,500.00	4,465.93	4,800.00	4,721.31	17.40	28.11	-117.84	-731.75	686.02	1,152.87	1,114.34	38.52	29.926	
4,600.00	4,564.94	4,880.00	4,798.74	17.81	28.79	-118.71	-718.57	670.85	1,135.71	1,096.18	39.53	28.727	
4,700.00	4,663.94	4,972.75	4,888.74	18.23	29.57	-119.76	-703.53	654.20	1,119.95	1,079.37	40.58	27.600	
4,800.00	4,762.95	5,062.66	4,975.99	18.64	30.33	-120.83	-688.49	638.62	1,105.03	1,063.39	41.65	26.534	
4,900.00	4,861.96	5,143.26	5,054.42	19.06	30.98	-121.79	-675.44	625.32	1,091.53	1,048.82	42.70	25.561	
5,000.00	4,960.96	5,200.00	5,109.91	19.48	31.42	-122.44	-667.31	616.74	1,080.60	1,036.93	43.67	24.744	
5,100.00	5,059.97	5,267.10	5,176.02	19.89	31.87	-123.17	-659.23	608.66	1,073.45	1,028.83	44.61	24.062	
5,200.00	5,158.98	5,340.65	5,248.90	20.31	32.30	-123.90	-652.23	601.61	1,069.50	1,023.97	45.52	23.493	
5,300.00	5,257.99	5,425.42	5,333.12	20.72	32.76	-124.68	-645.81	594.62	1,067.61	1,021.17	46.45	22.986	
5,370.58	5,327.87	5,483.83	5,391.24	21.02	33.06	-125.20	-641.84	590.30	1,067.16	1,020.09	47.08	22.669 CC	
5,400.00	5,356.99	5,507.32	5,414.64	21.14	33.18	-125.40	-640.44	588.72	1,067.25	1,019.92	47.33	22.550 ES	
5,500.00	5,456.00	5,580.08	5,487.20	21.56	33.51	-125.99	-636.93	584.63	1,069.04	1,020.92	48.12	22.216	
5,600.00	5,555.01	5,646.36	5,553.41	21.97	33.77	-126.49	-634.72	582.69	1,073.88	1,025.06	48.82	21.997	
5,700.00	5,654.01	5,720.00	5,627.04	22.39	33.96	-126.99	-633.57	582.38	1,081.61	1,032.17	49.44	21.877	
5,800.00	5,753.02	5,818.40	5,725.44	22.81	34.15	-127.57	-633.74	583.10	1,090.93	1,040.77	50.15	21.753	
5,900.00	5,852.03	5,935.55	5,842.58	23.22	34.35	-128.22	-634.26	582.36	1,099.04	1,048.12	50.91	21.587	
6,000.00	5,951.03	6,021.63	5,928.65	23.64	34.55	-128.72	-634.04	581.87	1,107.23	1,055.65	51.58	21.468	
6,100.00	6,050.04	6,124.55	6,031.57	24.06	34.79	-129.35	-633.15	581.89	1,116.04	1,063.70	52.34	21.322	
6,200.00	6,149.05	6,239.10	6,146.11	24.47	35.06	-129.99	-632.86	580.36	1,123.67	1,070.51	53.15	21.141	
6,300.00	6,248.05	6,337.94	6,244.93	24.89	35.33	-130.54	-632.44	578.83	1,131.22	1,077.32	53.90	20.986	
6,400.00	6,347.06	6,440.00	6,346.97	25.31	35.62	-131.11	-631.79	576.66	1,138.27	1,083.58	54.69	20.814	
6,500.00	6,446.07	6,520.00	6,426.96	25.72	35.89	-131.58	-630.83	575.90	1,146.51	1,091.12	55.39	20.699	
6,600.00	6,545.07	6,615.25	6,522.20	26.14	36.13	-132.12	-629.92	575.83	1,155.80	1,099.68	56.11	20.597	
6,665.43	6,609.86	6,683.26	6,590.21	26.41	36.30	-132.51	-629.09	575.78	1,161.91	1,105.29	56.62	20.520	
6,700.00	6,644.15	6,714.41	6,621.36	26.55	36.38	-151.01	-628.70	575.76	1,165.23	1,108.38	56.85	20.496	
6,750.00	6,693.86	6,760.00	6,666.95	26.74	36.45	171.98	-628.36	575.88	1,170.47	1,113.36	57.11	20.495	
6,800.00	6,743.50	6,807.82	6,714.77	26.90	36.50	142.42	-628.21	576.14	1,176.12	1,118.81	57.31	20.523	
6,850.00	6,792.82	6,862.44	6,769.38	27.05	36.59	126.62	-627.81	576.32	1,181.90	1,124.36	57.54	20.540	
6,900.00	6,841.57	6,929.29	6,836.22	27.19	36.79	118.28	-626.75	576.00	1,187.54	1,129.64	57.90	20.510	
6,950.00	6,889.53	6,990.01	6,896.91	27.31	37.02	113.47	-625.26	574.81	1,192.71	1,134.48	58.23	20.482 SF	
7,000.00	6,936.45	7,036.60	6,943.48	27.41	37.17	110.42	-624.63	573.67	1,198.12	1,139.71	58.41	20.511	
7,050.00	6,982.12	7,080.00	6,986.87	27.51	37.27	108.44	-624.73	572.61	1,204.14	1,145.65	58.49	20.587	
7,100.00	7,026.30	7,120.00	7,026.86	27.59	37.32	107.09	-625.14	571.74	1,210.96	1,152.46	58.50	20.701	
7,150.00	7,068.78	7,155.38	7,062.23	27.66	37.36	106.06	-625.58	571.12	1,218.75	1,160.28	58.46	20.846	
7,200.00	7,109.36	7,190.28	7,097.12	27.71	37.40	105.31	-626.07	570.63	1,227.62	1,169.21	58.41	21.016	

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 4G-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 4G-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		
7,250.00	7,147.83	7,223.16	7,130.00	27.76	37.45	104.68	-626.54	570.32	1,237.71	1,179.36	58.35	21.212		
7,300.00	7,184.01	7,254.35	7,161.18	27.79	37.50	104.12	-626.97	570.16	1,249.11	1,190.82	58.29	21.430		
7,350.00	7,217.73	7,283.72	7,190.55	27.82	37.55	103.56	-627.42	570.09	1,261.89	1,203.67	58.22	21.673		
7,400.00	7,248.81	7,311.01	7,217.84	27.83	37.61	102.95	-627.89	570.09	1,276.13	1,217.96	58.17	21.940		
7,450.00	7,277.12	7,335.85	7,242.67	27.84	37.67	102.23	-628.37	570.13	1,291.87	1,233.77	58.10	22.234		
7,500.00	7,302.50	7,358.01	7,264.83	27.85	37.72	101.36	-628.84	570.20	1,309.16	1,251.12	58.04	22.556		
7,550.00	7,324.84	7,379.31	7,286.12	27.84	37.77	100.39	-629.31	570.29	1,327.99	1,270.01	57.99	22.901		
7,600.00	7,344.02	7,397.70	7,304.51	27.84	37.82	99.22	-629.69	570.37	1,348.33	1,290.40	57.94	23.272		
7,650.00	7,359.96	7,412.81	7,319.61	27.84	37.85	97.80	-630.00	570.43	1,370.14	1,312.26	57.89	23.670		
7,700.00	7,372.58	7,424.59	7,331.39	27.84	37.88	96.12	-630.23	570.48	1,393.36	1,335.53	57.83	24.093		
7,750.00	7,381.81	7,432.96	7,339.76	27.86	37.90	94.18	-630.40	570.52	1,417.89	1,360.11	57.78	24.540		
7,800.00	7,387.61	7,437.88	7,344.68	27.92	37.92	91.96	-630.49	570.54	1,443.61	1,385.88	57.73	25.008		
7,850.00	7,389.95	7,439.29	7,346.09	28.02	37.92	89.48	-630.52	570.55	1,470.36	1,412.69	57.67	25.496		
7,858.73	7,390.00	7,439.17	7,345.97	28.04	37.92	89.02	-630.51	570.55	1,475.12	1,417.46	57.66	25.583		
7,900.00	7,390.00	7,438.37	7,345.17	28.17	37.92	88.99	-630.50	570.55	1,498.11	1,440.49	57.62	26.000		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	7,390.00	7,744.08	7,345.15	103.14	41.09	-93.08	7,414.44	-840.33	1,410.21	1,356.11	54.10	26.067		
13,748.73	7,390.00	7,743.96	7,345.03	103.89	41.09	-93.02	7,414.44	-840.33	1,361.71	1,307.47	54.25	25.102		
13,800.00	7,390.00	7,743.81	7,344.88	104.67	41.09	-93.61	7,414.44	-840.33	1,310.65	1,256.25	54.40	24.091		
13,821.47	7,390.00	7,743.75	7,344.82	105.01	41.09	-93.92	7,414.44	-840.34	1,289.25	1,234.78	54.47	23.670		
13,900.00	7,390.00	7,743.49	7,344.57	106.23	41.09	-93.77	7,414.45	-840.34	1,210.97	1,156.26	54.71	22.134		
14,000.00	7,390.00	7,743.17	7,344.24	107.78	41.09	-93.59	7,414.45	-840.35	1,111.34	1,056.26	55.09	20.174		
14,100.00	7,390.00	7,742.85	7,343.92	109.34	41.09	-93.40	7,414.45	-840.36	1,011.78	956.22	55.56	18.211		
14,200.00	7,390.00	7,742.53	7,343.60	110.89	41.09	-93.22	7,414.45	-840.37	912.32	856.15	56.17	16.241		
14,300.00	7,390.00	7,742.21	7,343.28	112.45	41.09	-93.04	7,414.45	-840.38	813.00	756.00	57.00	14.263		
14,400.00	7,390.00	7,741.88	7,342.96	114.01	41.09	-92.85	7,414.45	-840.39	713.86	655.71	58.15	12.277		
14,500.00	7,390.00	7,741.56	7,342.63	115.57	41.09	-92.67	7,414.45	-840.40	614.99	555.17	59.83	10.280		
14,600.00	7,390.00	7,741.24	7,342.31	117.14	41.09	-92.48	7,414.45	-840.40	516.57	454.16	62.41	8.277		
14,625.12	7,390.00	7,741.16	7,342.23	117.53	41.09	-92.43	7,414.45	-840.41	491.95	428.67	63.28	7.774	CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	
13,100.00	7,390.00	7,616.88	7,314.10	94.00	37.57	87.43	6,754.44	-171.71	1,442.24	1,371.46	70.78	20.376	
13,200.00	7,390.00	7,618.63	7,315.85	95.52	37.57	87.62	6,754.48	-171.71	1,349.81	1,277.16	72.66	18.578	
13,300.00	7,390.00	7,620.38	7,317.60	97.04	37.57	87.80	6,754.51	-171.71	1,258.54	1,183.69	74.85	16.814	
13,400.00	7,390.00	7,622.14	7,319.36	98.56	37.57	87.99	6,754.54	-171.71	1,168.69	1,091.25	77.44	15.092	
13,500.00	7,390.00	7,623.90	7,321.12	100.08	37.57	88.18	6,754.57	-171.71	1,080.63	1,000.12	80.51	13.423	
13,600.00	7,390.00	7,625.66	7,322.88	101.61	37.58	88.37	6,754.60	-171.71	994.82	910.59	84.23	11.810	
13,700.00	7,390.00	7,627.43	7,324.65	103.14	37.58	88.56	6,754.63	-171.71	911.91	823.18	88.73	10.277	
13,748.73	7,390.00	7,628.29	7,325.51	103.89	37.58	88.65	6,754.65	-171.71	872.80	781.56	91.24	9.566	
13,800.00	7,390.00	7,629.19	7,326.41	104.67	37.58	88.78	6,754.66	-171.71	833.05	738.87	94.17	8.846	
13,821.47	7,390.00	7,629.57	7,326.79	105.01	37.58	88.83	6,754.67	-171.71	816.96	721.45	95.50	8.554	
13,900.00	7,390.00	7,630.97	7,328.19	106.23	37.58	88.97	6,754.69	-171.71	760.60	659.74	100.86	7.541	
14,000.00	7,390.00	7,632.74	7,329.96	107.78	37.58	89.16	6,754.73	-171.71	695.08	586.32	108.77	6.391	
14,100.00	7,390.00	7,634.52	7,331.74	109.34	37.59	89.35	6,754.76	-171.70	638.56	520.77	117.79	5.421	
14,200.00	7,390.00	7,636.30	7,333.52	110.89	37.59	89.53	6,754.79	-171.70	593.62	466.22	127.40	4.659	
14,300.00	7,390.00	7,638.08	7,335.30	112.45	37.59	89.72	6,754.82	-171.70	563.02	426.62	136.40	4.128	
14,400.00	7,390.00	7,639.87	7,337.09	114.01	37.59	89.90	6,754.85	-171.70	549.18	405.99	143.19	3.835	
14,427.01	7,390.00	7,640.35	7,337.57	114.43	37.59	89.96	6,754.86	-171.70	548.51	404.07	144.45	3.797 CC, ES	
14,500.00	7,390.00	7,641.66	7,338.88	115.57	37.59	90.09	6,754.89	-171.70	553.35	406.93	146.41	3.779 SF	
14,600.00	7,390.00	7,643.45	7,340.67	117.14	37.59	90.28	6,754.92	-171.70	575.14	429.38	145.76	3.946	
14,625.12	7,390.00	7,643.90	7,341.12	117.53	37.60	90.33	6,754.93	-171.70	583.18	438.12	145.06	4.020	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 23-4AE - EXTRACTION - SURVEYS													Offset Site Error: 0.00 usft
Survey Program: 117-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	
13,600.00	7,390.00	7,426.50	7,314.75	101.61	23.49	-89.10	6,108.92	-2,178.63	1,492.76	1,372.94	119.82	12.458	
13,700.00	7,390.00	7,427.06	7,315.31	103.14	23.49	-89.12	6,108.92	-2,178.64	1,482.30	1,359.50	122.79	12.071	
13,748.73	7,390.00	7,427.34	7,315.58	103.89	23.49	-89.13	6,108.92	-2,178.64	1,479.62	1,355.52	124.10	11.923	
13,800.00	7,390.00	7,427.63	7,315.88	104.67	23.49	-89.14	6,108.93	-2,178.65	1,478.08	1,352.71	125.37	11.790	
13,821.47	7,390.00	7,427.76	7,316.01	105.01	23.49	-89.15	6,108.93	-2,178.65	1,477.69	1,351.83	125.87	11.740	
13,843.15	7,390.00	7,427.89	7,316.14	105.34	23.49	-89.15	6,108.93	-2,178.65	1,477.53	1,351.19	126.35	11.694 CC	
13,900.00	7,390.00	7,428.24	7,316.49	106.23	23.49	-89.17	6,108.93	-2,178.66	1,478.62	1,351.12	127.50	11.597 ES	
14,000.00	7,390.00	7,428.85	7,317.10	107.78	23.49	-89.19	6,108.93	-2,178.67	1,485.83	1,356.67	129.16	11.504 SF	
14,100.00	7,390.00	7,429.47	7,317.71	109.34	23.49	-89.21	6,108.93	-2,178.68	1,499.69	1,369.36	130.33	11.507	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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		
12,300.00	7,390.00	7,447.53	7,335.43	81.94	22.97	-88.48	6,072.46	-834.06	1,468.04	1,419.11	48.94	29.998		
12,400.00	7,390.00	7,447.89	7,335.80	83.44	22.97	-88.63	6,072.46	-834.06	1,368.49	1,319.42	49.07	27.886		
12,500.00	7,390.00	7,448.25	7,336.16	84.94	22.97	-88.78	6,072.47	-834.06	1,269.01	1,219.77	49.25	25.769		
12,600.00	7,390.00	7,448.61	7,336.52	86.44	22.97	-88.94	6,072.47	-834.05	1,169.62	1,120.15	49.46	23.646		
12,700.00	7,390.00	7,448.97	7,336.88	87.95	22.97	-89.09	6,072.47	-834.05	1,070.34	1,020.59	49.75	21.514		
12,800.00	7,390.00	7,449.33	7,337.23	89.46	22.97	-89.24	6,072.47	-834.04	971.21	921.07	50.14	19.371		
12,900.00	7,390.00	7,449.68	7,337.59	90.97	22.97	-89.40	6,072.47	-834.04	872.27	821.60	50.67	17.213		
13,000.00	7,390.00	7,450.04	7,337.94	92.48	22.97	-89.55	6,072.47	-834.03	773.61	722.17	51.44	15.038		
13,100.00	7,390.00	7,450.39	7,338.30	94.00	22.97	-89.70	6,072.47	-834.03	675.34	622.75	52.59	12.842		
13,200.00	7,390.00	7,450.74	7,338.65	95.52	22.98	-89.85	6,072.47	-834.03	577.67	523.31	54.36	10.626		
13,300.00	7,390.00	7,451.09	7,339.00	97.04	22.98	-90.00	6,072.48	-834.02	480.96	423.71	57.25	8.401		
13,400.00	7,390.00	7,451.44	7,339.35	98.56	22.98	-90.15	6,072.48	-834.02	385.92	323.72	62.20	6.205		
13,500.00	7,390.00	7,451.79	7,339.70	100.08	22.98	-90.30	6,072.48	-834.01	294.19	222.99	71.20	4.132		
13,600.00	7,390.00	7,452.14	7,340.05	101.61	22.98	-90.45	6,072.48	-834.01	210.15	121.96	88.19	2.383		
13,700.00	7,390.00	7,452.48	7,340.39	103.14	22.98	-90.59	6,072.48	-834.00	147.57	32.32	115.25	1.280 Level 3		
13,748.73	7,390.00	7,452.65	7,340.56	103.89	22.98	-90.67	6,072.48	-834.00	134.59	10.34	124.25	1.083 Level 2		
13,762.58	7,390.00	7,452.70	7,340.61	104.10	22.98	-90.69	6,072.48	-834.00	133.91	9.11	124.80	1.073 Level 2, CC, ES, SF		
13,800.00	7,390.00	7,452.82	7,340.73	104.67	22.98	-90.74	6,072.48	-834.00	138.81	17.55	121.25	1.145 Level 2		
13,821.47	7,390.00	7,452.89	7,340.80	105.01	22.98	-90.77	6,072.48	-834.00	145.73	29.06	116.68	1.249 Level 2		
13,900.00	7,390.00	7,453.14	7,341.04	106.23	22.98	-90.87	6,072.48	-834.00	190.32	93.89	96.43	1.974		
14,000.00	7,390.00	7,453.45	7,341.35	107.78	22.98	-91.00	6,072.48	-833.99	270.47	192.00	78.47	3.447		
14,100.00	7,390.00	7,453.76	7,341.67	109.34	22.98	-91.14	6,072.49	-833.99	360.68	291.97	68.71	5.250		
14,200.00	7,390.00	7,454.07	7,341.97	110.89	22.98	-91.27	6,072.49	-833.99	454.99	391.87	63.13	7.208		
14,300.00	7,390.00	7,454.38	7,342.28	112.45	22.98	-91.40	6,072.49	-833.98	551.32	491.61	59.71	9.233		
14,400.00	7,390.00	7,454.68	7,342.59	114.01	22.98	-91.53	6,072.49	-833.98	648.75	591.27	57.49	11.285		
14,500.00	7,390.00	7,454.99	7,342.90	115.57	22.98	-91.66	6,072.49	-833.97	746.87	690.90	55.97	13.343		
14,600.00	7,390.00	7,455.29	7,343.20	117.14	22.98	-91.79	6,072.49	-833.97	845.43	790.52	54.90	15.398		
14,625.12	7,390.00	7,455.37	7,343.28	117.53	22.98	-91.82	6,072.49	-833.97	870.24	815.55	54.69	15.913		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 31-26 - CPR WELL - GYRO				Offset Site Error:		0.00 usft
Survey Program: 100-VESSI_GYROFLEX												Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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				
10,600.00	7,390.00	7,325.94	7,323.41	57.24	12.77	-89.64	4,182.20	-1,420.28	1,469.25	1,422.28	46.98	31.276				
10,700.00	7,390.00	7,326.27	7,323.75	58.64	12.77	-89.67	4,182.20	-1,420.28	1,383.38	1,334.86	48.52	28.511				
10,800.00	7,390.00	7,326.61	7,324.09	60.05	12.77	-89.69	4,182.20	-1,420.28	1,299.53	1,249.17	50.36	25.805				
10,900.00	7,390.00	7,326.95	7,324.43	61.47	12.77	-89.72	4,182.20	-1,420.28	1,218.11	1,165.58	52.54	23.185				
11,000.00	7,390.00	7,327.30	7,324.77	62.89	12.77	-89.75	4,182.20	-1,420.28	1,139.66	1,084.56	55.10	20.684				
11,100.00	7,390.00	7,327.64	7,325.11	64.32	12.77	-89.77	4,182.20	-1,420.28	1,064.83	1,006.75	58.08	18.333				
11,200.00	7,390.00	7,327.98	7,325.45	65.76	12.77	-89.80	4,182.20	-1,420.28	994.43	932.92	61.51	16.166				
11,300.00	7,390.00	7,328.33	7,325.80	67.20	12.77	-89.83	4,182.20	-1,420.28	929.48	864.09	65.38	14.215				
11,400.00	7,390.00	7,328.68	7,326.15	68.66	12.77	-89.85	4,182.20	-1,420.28	871.18	801.55	69.64	12.511				
11,500.00	7,390.00	7,329.02	7,326.50	70.11	12.77	-89.88	4,182.21	-1,420.28	820.97	746.84	74.13	11.075				
11,600.00	7,390.00	7,329.37	7,326.85	71.58	12.77	-89.91	4,182.21	-1,420.28	780.40	701.77	78.63	9.925				
11,700.00	7,390.00	7,329.73	7,327.20	73.04	12.77	-89.94	4,182.21	-1,420.28	751.04	668.23	82.81	9.070				
11,800.00	7,390.00	7,330.08	7,327.55	74.52	12.77	-89.96	4,182.21	-1,420.28	734.22	647.95	86.28	8.510				
11,874.85	7,390.00	7,330.34	7,327.81	75.62	12.77	-89.99	4,182.21	-1,420.28	730.40	642.19	88.21	8.280 CC				
11,900.00	7,390.00	7,330.43	7,327.90	75.99	12.77	-89.99	4,182.21	-1,420.28	730.83	642.12	88.71	8.238 ES, SF				
12,000.00	7,390.00	7,330.79	7,328.26	77.47	12.77	-90.02	4,182.21	-1,420.28	741.04	651.12	89.92	8.241				
12,100.00	7,390.00	7,331.14	7,328.62	78.96	12.77	-90.05	4,182.21	-1,420.28	764.31	674.38	89.93	8.499				
12,200.00	7,390.00	7,331.50	7,328.97	80.45	12.77	-90.08	4,182.21	-1,420.28	799.50	710.55	88.95	8.988				
12,300.00	7,390.00	7,331.86	7,329.33	81.94	12.78	-90.10	4,182.22	-1,420.28	845.12	757.87	87.25	9.686				
12,400.00	7,390.00	7,332.22	7,329.70	83.44	12.78	-90.13	4,182.22	-1,420.28	899.59	814.47	85.12	10.568				
12,500.00	7,390.00	7,332.59	7,330.06	84.94	12.78	-90.16	4,182.22	-1,420.28	961.40	878.60	82.80	11.611				
12,600.00	7,390.00	7,332.95	7,330.42	86.44	12.78	-90.19	4,182.22	-1,420.28	1,029.23	948.79	80.44	12.794				
12,700.00	7,390.00	7,333.32	7,330.79	87.95	12.78	-90.22	4,182.22	-1,420.28	1,101.97	1,023.81	78.16	14.099				
12,800.00	7,390.00	7,333.68	7,331.15	89.46	12.78	-90.25	4,182.22	-1,420.28	1,178.72	1,102.71	76.01	15.508				
12,900.00	7,390.00	7,334.05	7,331.52	90.97	12.78	-90.28	4,182.22	-1,420.28	1,258.73	1,184.72	74.01	17.008				
13,000.00	7,390.00	7,334.42	7,331.89	92.48	12.78	-90.31	4,182.22	-1,420.28	1,341.43	1,269.25	72.18	18.585				
13,100.00	7,390.00	7,334.79	7,332.26	94.00	12.78	-90.33	4,182.22	-1,420.28	1,426.34	1,355.83	70.51	20.228				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 32-26 - CPR - GYRO													Offset Site Error:	0.00 usft
Survey Program: 100-VESSI_GYROFLEX													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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		
9,500.00	7,390.00	7,337.21	7,334.29	42.73	12.83	-90.02	2,806.55	-1,710.53	1,434.73	1,387.93	46.81	30.653		
9,600.00	7,390.00	7,338.98	7,336.06	43.96	12.83	-90.11	2,806.58	-1,710.49	1,366.86	1,318.50	48.35	28.269		
9,700.00	7,390.00	7,340.75	7,337.83	45.22	12.83	-90.21	2,806.61	-1,710.46	1,303.12	1,253.00	50.13	25.995		
9,800.00	7,390.00	7,342.51	7,339.59	46.49	12.83	-90.31	2,806.65	-1,710.43	1,244.17	1,192.04	52.13	23.865		
9,900.00	7,390.00	7,344.27	7,341.35	47.79	12.84	-90.41	2,806.68	-1,710.40	1,190.71	1,136.36	54.35	21.909		
10,000.00	7,390.00	7,346.02	7,343.11	49.10	12.84	-90.51	2,806.71	-1,710.37	1,143.50	1,086.77	56.73	20.156		
10,100.00	7,390.00	7,347.77	7,344.86	50.42	12.84	-90.61	2,806.74	-1,710.34	1,103.36	1,044.14	59.23	18.630		
10,200.00	7,390.00	7,349.52	7,346.60	51.76	12.85	-90.70	2,806.77	-1,710.31	1,071.08	1,009.34	61.75	17.347		
10,300.00	7,390.00	7,351.26	7,348.34	53.11	12.85	-90.80	2,806.80	-1,710.28	1,047.38	983.20	64.19	16.318		
10,400.00	7,390.00	7,353.00	7,350.08	54.48	12.85	-90.90	2,806.83	-1,710.25	1,032.86	966.43	66.44	15.547		
10,500.00	7,390.00	7,354.74	7,351.82	55.86	12.86	-90.99	2,806.87	-1,710.22	1,027.91	959.51	68.39	15.029		
10,501.09	7,390.00	7,354.76	7,351.84	55.87	12.86	-90.99	2,806.87	-1,710.22	1,027.91	959.49	68.41	15.025 CC, ES		
10,600.00	7,390.00	7,356.47	7,353.55	57.24	12.86	-91.09	2,806.90	-1,710.19	1,032.65	962.67	69.98	14.756		
10,700.00	7,390.00	7,358.20	7,355.27	58.64	12.86	-91.19	2,806.93	-1,710.16	1,046.97	975.82	71.15	14.715 SF		
10,800.00	7,390.00	7,359.92	7,357.00	60.05	12.86	-91.28	2,806.96	-1,710.13	1,070.47	998.57	71.90	14.889		
10,900.00	7,390.00	7,361.64	7,358.71	61.47	12.87	-91.38	2,806.99	-1,710.10	1,102.57	1,030.32	72.25	15.260		
11,000.00	7,390.00	7,363.35	7,360.43	62.89	12.87	-91.47	2,807.02	-1,710.07	1,142.55	1,070.29	72.27	15.810		
11,100.00	7,390.00	7,365.06	7,362.14	64.32	12.87	-91.57	2,807.05	-1,710.04	1,189.61	1,117.60	72.01	16.521		
11,200.00	7,390.00	7,366.77	7,363.84	65.76	12.88	-91.66	2,807.08	-1,710.01	1,242.95	1,171.41	71.54	17.374		
11,300.00	7,390.00	7,368.47	7,365.55	67.20	12.88	-91.76	2,807.11	-1,709.98	1,301.79	1,230.86	70.93	18.354		
11,400.00	7,390.00	7,370.17	7,367.24	68.66	12.88	-91.85	2,807.14	-1,709.96	1,365.42	1,295.21	70.22	19.446		
11,500.00	7,390.00	7,371.86	7,368.94	70.11	12.88	-91.95	2,807.17	-1,709.93	1,433.22	1,363.76	69.45	20.636		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 3-23 - CPR WELL - SURVEYS													Offset Site Error: 0.00 usft	
Survey Program: 100-Gyro													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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		
12,100.00	7,390.00	7,368.10	7,365.78	78.96	6.44	-93.49	5,772.29	-1,153.46	1,437.65	1,397.84	39.81	36.114		
12,200.00	7,390.00	7,366.53	7,364.20	80.45	6.44	-93.30	5,772.31	-1,153.48	1,343.18	1,302.08	41.10	32.681		
12,300.00	7,390.00	7,364.95	7,362.62	81.94	6.44	-93.10	5,772.34	-1,153.50	1,249.58	1,206.89	42.68	29.275		
12,400.00	7,390.00	7,363.35	7,361.02	83.44	6.44	-92.90	5,772.37	-1,153.52	1,157.04	1,112.41	44.63	25.924		
12,500.00	7,390.00	7,361.73	7,359.41	84.94	6.43	-92.69	5,772.39	-1,153.54	1,065.84	1,018.81	47.04	22.660		
12,600.00	7,390.00	7,360.11	7,357.78	86.44	6.43	-92.49	5,772.42	-1,153.56	976.37	926.36	50.01	19.522		
12,700.00	7,390.00	7,358.47	7,356.14	87.95	6.43	-92.28	5,772.45	-1,153.58	889.15	835.45	53.70	16.557		
12,800.00	7,390.00	7,356.81	7,354.49	89.46	6.43	-92.08	5,772.47	-1,153.59	804.90	746.63	58.27	13.814		
12,900.00	7,390.00	7,355.15	7,352.82	90.97	6.43	-91.87	5,772.50	-1,153.61	724.65	660.77	63.89	11.343		
13,000.00	7,390.00	7,353.47	7,351.14	92.48	6.43	-91.65	5,772.53	-1,153.63	649.91	579.21	70.70	9.192		
13,100.00	7,390.00	7,351.77	7,349.44	94.00	6.43	-91.44	5,772.56	-1,153.65	582.79	504.07	78.72	7.403		
13,200.00	7,390.00	7,350.06	7,347.73	95.52	6.42	-91.23	5,772.59	-1,153.67	526.20	438.61	87.59	6.007		
13,300.00	7,390.00	7,348.33	7,346.01	97.04	6.42	-91.01	5,772.62	-1,153.69	483.87	387.54	96.33	5.023		
13,400.00	7,390.00	7,346.59	7,344.27	98.56	6.42	-90.79	5,772.65	-1,153.71	459.75	356.54	103.21	4.455		
13,463.85	7,390.00	7,345.47	7,343.15	99.53	6.42	-90.65	5,772.67	-1,153.72	455.30	349.53	105.77	4.305 CC, ES		
13,500.00	7,390.00	7,344.84	7,342.51	100.08	6.42	-90.57	5,772.68	-1,153.73	456.73	350.28	106.44	4.291 SF		
13,600.00	7,390.00	7,343.07	7,340.74	101.61	6.42	-90.35	5,772.71	-1,153.75	475.21	369.79	105.43	4.508		
13,700.00	7,390.00	7,341.28	7,338.96	103.14	6.42	-90.12	5,772.74	-1,153.77	512.88	411.74	101.14	5.071		
13,748.73	7,390.00	7,340.41	7,338.08	103.89	6.42	-90.01	5,772.76	-1,153.78	537.05	438.69	98.37	5.460		
13,800.00	7,390.00	7,339.48	7,337.15	104.67	6.42	-89.90	5,772.78	-1,153.79	565.54	470.33	95.22	5.939		
13,821.47	7,390.00	7,339.08	7,336.76	105.01	6.41	-89.85	5,772.78	-1,153.80	578.19	484.33	93.86	6.160		
13,900.00	7,390.00	7,337.63	7,335.31	106.23	6.41	-89.67	5,772.81	-1,153.81	628.32	539.44	88.88	7.069		
14,000.00	7,390.00	7,335.77	7,333.45	107.78	6.41	-89.44	5,772.84	-1,153.84	699.75	616.83	82.92	8.439		
14,100.00	7,390.00	7,333.89	7,331.57	109.34	6.41	-89.21	5,772.87	-1,153.86	777.50	699.86	77.64	10.014		
14,200.00	7,390.00	7,331.99	7,329.67	110.89	6.41	-88.97	5,772.91	-1,153.88	859.86	786.77	73.10	11.763		
14,300.00	7,390.00	7,330.08	7,327.76	112.45	6.41	-88.74	5,772.94	-1,153.90	945.63	876.40	69.23	13.659		
14,400.00	7,390.00	7,328.15	7,325.83	114.01	6.41	-88.50	5,772.98	-1,153.92	1,033.95	968.00	65.95	15.677		
14,500.00	7,390.00	7,326.20	7,323.88	115.57	6.40	-88.26	5,773.01	-1,153.94	1,124.23	1,061.06	63.17	17.797		
14,600.00	7,390.00	7,324.24	7,321.92	117.14	6.40	-88.01	5,773.05	-1,153.97	1,216.02	1,155.23	60.80	20.001		
14,625.12	7,390.00	7,323.74	7,321.42	117.53	6.40	-87.95	5,773.06	-1,153.97	1,239.28	1,179.02	60.26	20.567		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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
9,100.00	7,390.00	7,409.96	7,344.84	38.06	19.67	89.45	2,675.25	-35.25	1,416.58	1,365.15	51.43	27.544	
9,200.00	7,390.00	7,410.45	7,345.33	39.18	19.67	89.50	2,675.26	-35.25	1,328.39	1,276.08	52.31	25.397	
9,300.00	7,390.00	7,410.95	7,345.82	40.34	19.67	89.54	2,675.26	-35.25	1,241.98	1,188.65	53.33	23.288	
9,400.00	7,390.00	7,411.44	7,346.31	41.52	19.67	89.58	2,675.26	-35.25	1,157.77	1,103.23	54.54	21.229	
9,500.00	7,390.00	7,411.93	7,346.80	42.73	19.67	89.63	2,675.26	-35.25	1,076.26	1,020.32	55.95	19.237	
9,600.00	7,390.00	7,412.42	7,347.29	43.96	19.67	89.67	2,675.26	-35.25	998.12	940.54	57.59	17.333	
9,700.00	7,390.00	7,412.90	7,347.78	45.22	19.67	89.71	2,675.27	-35.25	924.21	864.74	59.46	15.542	
9,800.00	7,390.00	7,413.39	7,348.27	46.49	19.67	89.76	2,675.27	-35.25	855.61	794.04	61.57	13.897	
9,900.00	7,390.00	7,413.88	7,348.76	47.79	19.67	89.80	2,675.27	-35.25	793.71	729.87	63.84	12.432	
10,000.00	7,390.00	7,414.36	7,349.24	49.10	19.68	89.84	2,675.27	-35.25	740.19	674.03	66.17	11.187	
10,100.00	7,390.00	7,414.85	7,349.73	50.42	19.68	89.89	2,675.28	-35.25	696.99	628.66	68.33	10.201	
10,200.00	7,390.00	7,415.34	7,350.21	51.76	19.68	89.93	2,675.28	-35.25	666.11	596.06	70.04	9.510	
10,300.00	7,390.00	7,415.82	7,350.70	53.11	19.68	89.97	2,675.28	-35.25	649.31	578.29	71.02	9.142	
10,360.47	7,390.00	7,416.11	7,350.99	53.94	19.68	90.00	2,675.28	-35.25	646.49	575.31	71.17	9.083 CC, ES, SF	
10,400.00	7,390.00	7,416.30	7,351.18	54.48	19.68	90.02	2,675.28	-35.25	647.69	576.61	71.08	9.112	
10,500.00	7,390.00	7,416.79	7,351.66	55.86	19.68	90.06	2,675.29	-35.25	661.37	591.13	70.24	9.416	
10,600.00	7,390.00	7,417.27	7,352.15	57.24	19.68	90.10	2,675.29	-35.25	689.43	620.70	68.74	10.030	
10,700.00	7,390.00	7,417.75	7,352.63	58.64	19.68	90.14	2,675.29	-35.25	730.22	663.34	66.88	10.919	
10,800.00	7,390.00	7,418.23	7,353.11	60.05	19.68	90.19	2,675.29	-35.25	781.74	716.87	64.87	12.051	
10,900.00	7,390.00	7,418.71	7,353.59	61.47	19.68	90.23	2,675.30	-35.25	842.04	779.14	62.90	13.387	
11,000.00	7,390.00	7,419.19	7,354.07	62.89	19.68	90.27	2,675.30	-35.25	909.36	848.28	61.07	14.889	
11,100.00	7,390.00	7,419.67	7,354.55	64.32	19.68	90.31	2,675.30	-35.25	982.26	922.82	59.44	16.526	
11,200.00	7,390.00	7,420.15	7,355.02	65.76	19.68	90.36	2,675.30	-35.25	1,059.59	1,001.60	58.00	18.270	
11,300.00	7,390.00	7,420.62	7,355.50	67.20	19.68	90.40	2,675.31	-35.25	1,140.45	1,083.71	56.74	20.099	
11,400.00	7,390.00	7,421.10	7,355.98	68.66	19.69	90.44	2,675.31	-35.25	1,224.15	1,168.49	55.66	21.994	
11,500.00	7,390.00	7,421.58	7,356.45	70.11	19.69	90.48	2,675.31	-35.25	1,310.13	1,255.41	54.72	23.941	
11,600.00	7,390.00	7,422.05	7,356.93	71.58	19.69	90.53	2,675.31	-35.25	1,397.98	1,344.06	53.92	25.929	
11,700.00	7,390.00	7,422.53	7,357.40	73.04	19.69	90.57	2,675.31	-35.25	1,487.36	1,434.14	53.22	27.948	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)				
9,400.00	7,390.00	7,347.99	7,347.99	41.52	12.82	90.00	3,149.30	-592.46	1,440.42	1,399.72	40.70	35.389		
9,500.00	7,390.00	7,347.99	7,347.99	42.73	12.82	90.00	3,149.30	-592.46	1,340.64	1,299.85	40.78	32.871		
9,600.00	7,390.00	7,347.99	7,347.99	43.96	12.82	90.00	3,149.30	-592.46	1,240.89	1,200.01	40.88	30.354		
9,700.00	7,390.00	7,347.99	7,347.99	45.22	12.82	90.00	3,149.30	-592.46	1,141.19	1,100.20	40.99	27.838		
9,800.00	7,390.00	7,347.99	7,347.99	46.49	12.82	90.00	3,149.30	-592.46	1,041.55	1,000.41	41.13	25.322		
9,900.00	7,390.00	7,347.99	7,347.99	47.79	12.82	90.00	3,149.30	-592.46	941.98	900.68	41.30	22.807		
10,000.00	7,390.00	7,347.99	7,347.99	49.10	12.82	90.00	3,149.30	-592.46	842.51	800.99	41.52	20.293		
10,100.00	7,390.00	7,347.99	7,347.99	50.42	12.82	90.00	3,149.30	-592.46	743.19	701.38	41.80	17.779		
10,200.00	7,390.00	7,347.99	7,347.99	51.76	12.82	90.00	3,149.30	-592.46	644.07	601.88	42.19	15.264		
10,300.00	7,390.00	7,347.99	7,347.99	53.11	12.82	90.00	3,149.30	-592.46	545.28	502.51	42.77	12.750		
10,400.00	7,390.00	7,347.99	7,347.99	54.48	12.82	90.00	3,149.30	-592.46	447.03	403.36	43.66	10.238		
10,500.00	7,390.00	7,347.99	7,347.99	55.86	12.82	90.00	3,149.30	-592.46	349.76	304.54	45.22	7.735		
10,600.00	7,390.00	7,347.99	7,347.99	57.24	12.82	90.00	3,149.30	-592.46	254.63	206.33	48.30	5.272		
10,700.00	7,390.00	7,347.99	7,347.99	58.64	12.82	90.00	3,149.30	-592.46	165.34	109.83	55.51	2.979		
10,800.00	7,390.00	7,347.99	7,347.99	60.05	12.82	90.00	3,149.30	-592.46	99.20	28.37	70.83	1.401 Level 3		
10,837.49	7,390.00	7,347.99	7,347.99	60.58	12.82	90.00	3,149.30	-592.46	91.84	18.64	73.20	1.255 Level 3, CC, ES, SF		
10,900.00	7,390.00	7,347.99	7,347.99	61.47	12.82	90.00	3,149.30	-592.46	111.10	47.69	63.41	1.752		
11,000.00	7,390.00	7,347.99	7,347.99	62.89	12.82	90.00	3,149.30	-592.46	186.67	137.77	48.90	3.818		
11,100.00	7,390.00	7,347.99	7,347.99	64.32	12.82	90.00	3,149.30	-592.46	278.11	234.26	43.86	6.341		
11,200.00	7,390.00	7,347.99	7,347.99	65.76	12.82	90.00	3,149.30	-592.46	373.96	331.95	42.01	8.901		
11,300.00	7,390.00	7,347.99	7,347.99	67.20	12.82	90.00	3,149.30	-592.46	471.54	430.31	41.23	11.437		
11,400.00	7,390.00	7,347.99	7,347.99	68.66	12.82	90.00	3,149.30	-592.46	569.96	529.09	40.87	13.947		
11,500.00	7,390.00	7,347.99	7,347.99	70.11	12.82	90.00	3,149.30	-592.46	668.85	628.16	40.69	16.438		
11,600.00	7,390.00	7,347.99	7,347.99	71.58	12.82	90.00	3,149.30	-592.46	768.02	727.41	40.61	18.913		
11,700.00	7,390.00	7,347.99	7,347.99	73.04	12.82	90.00	3,149.30	-592.46	867.39	826.81	40.58	21.377		
11,800.00	7,390.00	7,347.99	7,347.99	74.52	12.82	90.00	3,149.30	-592.46	966.88	926.31	40.57	23.831		
11,900.00	7,390.00	7,347.99	7,347.99	75.99	12.82	90.00	3,149.30	-592.46	1,066.47	1,025.88	40.59	26.275		
12,000.00	7,390.00	7,347.99	7,347.99	77.47	12.82	90.00	3,149.30	-592.46	1,166.13	1,125.52	40.62	28.712		
12,100.00	7,390.00	7,347.99	7,347.99	78.96	12.82	90.00	3,149.30	-592.46	1,265.85	1,225.20	40.65	31.140		
12,200.00	7,390.00	7,347.99	7,347.99	80.45	12.82	90.00	3,149.30	-592.46	1,365.60	1,324.91	40.69	33.562		
12,300.00	7,390.00	7,347.99	7,347.99	81.94	12.82	90.00	3,149.30	-592.46	1,465.39	1,424.66	40.73	35.976		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 33-23C - EXTRACTION - NO SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 8100-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		
13,100.00	7,390.00	7,313.99	7,313.99	94.00	12.77	-90.00	6,687.31	-1,307.64	1,414.83	1,358.29	56.53	25.026		
13,200.00	7,390.00	7,313.99	7,313.99	95.52	12.77	-90.00	6,687.31	-1,307.64	1,325.09	1,265.90	59.19	22.387		
13,300.00	7,390.00	7,313.99	7,313.99	97.04	12.77	-90.00	6,687.31	-1,307.64	1,236.94	1,174.64	62.30	19.855		
13,400.00	7,390.00	7,313.99	7,313.99	98.56	12.77	-90.00	6,687.31	-1,307.64	1,150.72	1,084.79	65.93	17.454		
13,500.00	7,390.00	7,313.99	7,313.99	100.08	12.77	-90.00	6,687.31	-1,307.64	1,066.91	996.74	70.17	15.204		
13,600.00	7,390.00	7,313.99	7,313.99	101.61	12.77	-90.00	6,687.31	-1,307.64	986.12	911.01	75.11	13.129		
13,700.00	7,390.00	7,313.99	7,313.99	103.14	12.77	-90.00	6,687.31	-1,307.64	909.16	828.34	80.82	11.250		
13,748.73	7,390.00	7,313.99	7,313.99	103.89	12.77	-90.00	6,687.31	-1,307.64	873.35	789.46	83.89	10.411		
13,800.00	7,390.00	7,313.99	7,313.99	104.67	12.77	-90.00	6,687.31	-1,307.64	836.75	749.45	87.31	9.584		
13,821.47	7,390.00	7,313.99	7,313.99	105.01	12.77	-90.00	6,687.31	-1,307.64	821.69	732.91	88.78	9.255		
13,900.00	7,390.00	7,313.99	7,313.99	106.23	12.77	-90.00	6,687.31	-1,307.64	769.00	674.55	94.45	8.142		
14,000.00	7,390.00	7,313.99	7,313.99	107.78	12.77	-90.00	6,687.31	-1,307.64	708.85	606.65	102.21	6.936		
14,100.00	7,390.00	7,313.99	7,313.99	109.34	12.77	-90.00	6,687.31	-1,307.64	658.47	548.31	110.16	5.978		
14,200.00	7,390.00	7,313.99	7,313.99	110.89	12.77	-90.00	6,687.31	-1,307.64	620.23	502.67	117.56	5.276		
14,300.00	7,390.00	7,313.99	7,313.99	112.45	12.77	-90.00	6,687.31	-1,307.64	596.49	473.07	123.42	4.833		
14,394.45	7,390.00	7,313.99	7,313.99	113.92	12.77	-90.00	6,687.31	-1,307.64	588.96	462.31	126.65	4.650 CC		
14,400.00	7,390.00	7,313.99	7,313.99	114.01	12.77	-90.00	6,687.31	-1,307.64	588.99	462.23	126.76	4.646 ES, SF		
14,500.00	7,390.00	7,313.99	7,313.99	115.57	12.77	-90.00	6,687.31	-1,307.64	598.35	471.25	127.10	4.708		
14,600.00	7,390.00	7,313.99	7,313.99	117.14	12.77	-90.00	6,687.31	-1,307.64	623.80	499.15	124.66	5.004		
14,625.12	7,390.00	7,313.99	7,313.99	117.53	12.77	-90.00	6,687.31	-1,307.64	632.52	508.83	123.69	5.114		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 34-23C - EXTRACTION - GYRO													Offset Site Error:	0.00 usft
Survey Program: 100-VESSI_GYROFLEX, 8090-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	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)						
11,900.00	7,390.00	7,322.76	7,322.01	75.99	12.11	-89.16	5,447.10	-1,378.45	1,414.65	1,362.08	52.57	26.912		
12,000.00	7,390.00	7,323.16	7,322.41	77.47	12.11	-89.19	5,447.10	-1,378.45	1,327.90	1,272.99	54.91	24.181		
12,100.00	7,390.00	7,323.56	7,322.82	78.96	12.11	-89.23	5,447.10	-1,378.45	1,243.15	1,185.49	57.66	21.561		
12,200.00	7,390.00	7,323.97	7,323.22	80.45	12.11	-89.26	5,447.11	-1,378.46	1,160.83	1,099.98	60.85	19.076		
12,300.00	7,390.00	7,324.37	7,323.62	81.94	12.11	-89.30	5,447.11	-1,378.46	1,081.49	1,016.94	64.55	16.754		
12,400.00	7,390.00	7,324.77	7,324.02	83.44	12.11	-89.33	5,447.11	-1,378.46	1,005.84	937.04	68.80	14.619		
12,500.00	7,390.00	7,325.17	7,324.42	84.94	12.11	-89.36	5,447.11	-1,378.47	934.78	861.15	73.63	12.695		
12,600.00	7,390.00	7,325.57	7,324.82	86.44	12.11	-89.40	5,447.11	-1,378.47	869.44	790.43	79.01	11.004		
12,700.00	7,390.00	7,325.97	7,325.22	87.95	12.11	-89.43	5,447.11	-1,378.47	811.18	726.36	84.83	9.563		
12,800.00	7,390.00	7,326.37	7,325.62	89.46	12.11	-89.46	5,447.11	-1,378.47	761.65	670.81	90.84	8.384		
12,900.00	7,390.00	7,326.77	7,326.02	90.97	12.11	-89.50	5,447.12	-1,378.48	722.64	625.98	96.66	7.476		
13,000.00	7,390.00	7,327.17	7,326.43	92.48	12.11	-89.53	5,447.12	-1,378.48	695.93	594.18	101.75	6.840		
13,100.00	7,390.00	7,327.58	7,326.83	94.00	12.11	-89.57	5,447.12	-1,378.48	682.94	577.42	105.52	6.472		
13,139.52	7,390.00	7,327.73	7,326.99	94.60	12.11	-89.58	5,447.12	-1,378.48	681.80	575.25	106.55	6.399 CC, ES		
13,200.00	7,390.00	7,327.98	7,327.23	95.52	12.11	-89.60	5,447.12	-1,378.49	684.48	576.91	107.57	6.363 SF		
13,300.00	7,390.00	7,328.38	7,327.63	97.04	12.11	-89.63	5,447.12	-1,378.49	700.43	592.65	107.78	6.499		
13,400.00	7,390.00	7,328.78	7,328.03	98.56	12.11	-89.67	5,447.12	-1,378.49	729.86	623.50	106.36	6.862		
13,500.00	7,390.00	7,329.18	7,328.43	100.08	12.11	-89.70	5,447.13	-1,378.49	771.23	667.47	103.76	7.433		
13,600.00	7,390.00	7,329.58	7,328.83	101.61	12.12	-89.73	5,447.13	-1,378.50	822.73	722.29	100.45	8.191		
13,700.00	7,390.00	7,329.98	7,329.23	103.14	12.12	-89.77	5,447.13	-1,378.50	882.60	785.78	96.82	9.116		
13,748.73	7,390.00	7,330.18	7,329.43	103.89	12.12	-89.78	5,447.13	-1,378.50	914.32	819.29	95.03	9.621		
13,800.00	7,390.00	7,330.39	7,329.64	104.67	12.12	-89.80	5,447.13	-1,378.50	948.92	855.77	93.16	10.186		
13,821.47	7,390.00	7,330.48	7,329.73	105.01	12.12	-89.81	5,447.13	-1,378.50	963.66	871.29	92.37	10.432		
13,900.00	7,390.00	7,330.81	7,330.06	106.23	12.12	-89.84	5,447.13	-1,378.51	1,019.39	929.82	89.57	11.381		
14,000.00	7,390.00	7,331.23	7,330.48	107.78	12.12	-89.87	5,447.13	-1,378.51	1,094.42	1,008.22	86.20	12.697		
14,100.00	7,390.00	7,331.65	7,330.90	109.34	12.12	-89.91	5,447.14	-1,378.51	1,173.17	1,090.07	83.10	14.117		
14,200.00	7,390.00	7,332.07	7,331.32	110.89	12.12	-89.94	5,447.14	-1,378.52	1,254.96	1,174.68	80.29	15.631		
14,300.00	7,390.00	7,332.49	7,331.74	112.45	12.12	-89.98	5,447.14	-1,378.52	1,339.22	1,261.48	77.75	17.226		
14,400.00	7,390.00	7,332.90	7,332.16	114.01	12.12	-90.01	5,447.14	-1,378.52	1,425.52	1,350.06	75.46	18.891		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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)						
11,600.00	7,390.00	7,365.53	7,364.94	71.58	12.26	90.51	5,300.45	-140.72	1,493.22	1,440.79	52.43	28.481		
11,700.00	7,390.00	7,365.18	7,364.59	73.04	12.26	90.47	5,300.45	-140.72	1,400.88	1,346.80	54.08	25.903		
11,800.00	7,390.00	7,364.83	7,364.24	74.52	12.26	90.44	5,300.45	-140.72	1,309.67	1,253.67	56.00	23.387		
11,900.00	7,390.00	7,364.49	7,363.89	75.99	12.26	90.40	5,300.45	-140.72	1,219.84	1,161.60	58.23	20.948		
12,000.00	7,390.00	7,364.14	7,363.54	77.47	12.26	90.37	5,300.45	-140.72	1,131.71	1,070.87	60.84	18.601		
12,100.00	7,390.00	7,363.79	7,363.20	78.96	12.26	90.33	5,300.45	-140.72	1,045.72	981.83	63.89	16.367		
12,200.00	7,390.00	7,363.44	7,362.85	80.45	12.26	90.29	5,300.45	-140.72	962.44	894.98	67.46	14.267		
12,300.00	7,390.00	7,363.09	7,362.50	81.94	12.26	90.26	5,300.45	-140.72	882.64	811.03	71.61	12.326		
12,400.00	7,390.00	7,362.74	7,362.15	83.44	12.26	90.22	5,300.46	-140.72	807.36	730.96	76.39	10.568		
12,500.00	7,390.00	7,362.39	7,361.80	84.94	12.26	90.19	5,300.46	-140.72	737.96	656.17	81.79	9.023		
12,600.00	7,390.00	7,362.05	7,361.45	86.44	12.26	90.15	5,300.46	-140.72	676.28	588.63	87.65	7.715		
12,700.00	7,390.00	7,361.70	7,361.10	87.95	12.26	90.11	5,300.46	-140.72	624.59	530.98	93.61	6.672		
12,800.00	7,390.00	7,361.35	7,360.76	89.46	12.26	90.08	5,300.46	-140.72	585.56	486.57	98.99	5.916		
12,900.00	7,390.00	7,361.00	7,360.41	90.97	12.26	90.04	5,300.46	-140.72	561.82	458.95	102.87	5.461		
12,986.18	7,390.00	7,360.70	7,360.11	92.27	12.26	90.01	5,300.46	-140.72	555.17	450.80	104.37	5.319 CC, ES		
13,000.00	7,390.00	7,360.65	7,360.06	92.48	12.26	90.01	5,300.46	-140.72	555.34	450.92	104.42	5.318 SF		
13,100.00	7,390.00	7,360.30	7,359.71	94.00	12.26	89.97	5,300.46	-140.72	566.72	463.39	103.33	5.485		
13,200.00	7,390.00	7,359.95	7,359.36	95.52	12.26	89.93	5,300.47	-140.72	594.92	494.95	99.97	5.951		
13,300.00	7,390.00	7,359.61	7,359.01	97.04	12.26	89.90	5,300.47	-140.72	637.73	542.51	95.22	6.698		
13,400.00	7,390.00	7,359.26	7,358.66	98.56	12.26	89.86	5,300.47	-140.72	692.43	602.52	89.91	7.701		
13,500.00	7,390.00	7,358.91	7,358.32	100.08	12.26	89.83	5,300.47	-140.72	756.45	671.79	84.67	8.935		
13,600.00	7,390.00	7,358.56	7,357.97	101.61	12.26	89.79	5,300.47	-140.72	827.64	747.82	79.81	10.370		
13,700.00	7,390.00	7,358.21	7,357.62	103.14	12.26	89.75	5,300.47	-140.72	904.29	828.81	75.48	11.980		
13,748.73	7,390.00	7,358.04	7,357.45	103.89	12.26	89.74	5,300.47	-140.72	943.23	869.66	73.57	12.821		
13,800.00	7,390.00	7,357.86	7,357.27	104.67	12.26	89.71	5,300.47	-140.72	985.40	913.67	71.72	13.739		
13,821.47	7,390.00	7,357.79	7,357.20	105.01	12.26	89.70	5,300.47	-140.72	1,003.46	932.45	71.01	14.132		
13,900.00	7,390.00	7,357.52	7,356.92	106.23	12.25	89.67	5,300.47	-140.72	1,070.72	1,002.14	68.58	15.613		
14,000.00	7,390.00	7,357.17	7,356.57	107.78	12.25	89.63	5,300.48	-140.72	1,158.44	1,092.56	65.88	17.583		
14,100.00	7,390.00	7,356.82	7,356.23	109.34	12.25	89.60	5,300.48	-140.72	1,248.00	1,184.44	63.56	19.634		
14,200.00	7,390.00	7,356.47	7,355.88	110.89	12.25	89.56	5,300.48	-140.72	1,339.04	1,277.48	61.56	21.751		
14,300.00	7,390.00	7,356.12	7,355.53	112.45	12.25	89.52	5,300.48	-140.72	1,431.28	1,371.45	59.83	23.922		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 - Johnson 1 - KPK - NO SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 5085-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
1,100.00	1,099.45	1,049.45	1,049.45	3.67	1.88	44.01	13.16	-1,505.32	1,494.02	1,488.47	5.55	269.284	
1,204.08	1,202.74	1,152.74	1,152.74	4.04	2.07	44.48	13.16	-1,505.32	1,484.85	1,478.75	6.10	243.548	
1,300.00	1,297.71	1,247.71	1,247.71	4.39	2.24	44.85	13.16	-1,505.32	1,475.21	1,468.60	6.61	223.227	
1,400.00	1,396.72	1,346.72	1,346.72	4.77	2.41	45.23	13.16	-1,505.32	1,465.22	1,458.08	7.15	205.009	
1,500.00	1,495.72	1,445.72	1,445.72	5.15	2.59	45.62	13.16	-1,505.32	1,455.31	1,447.62	7.69	189.215	
1,600.00	1,594.73	1,544.73	1,544.73	5.54	2.77	46.02	13.16	-1,505.32	1,445.46	1,437.22	8.24	175.418	
1,700.00	1,693.74	1,643.74	1,643.74	5.93	2.95	46.42	13.16	-1,505.32	1,435.68	1,426.89	8.79	163.279	
1,800.00	1,792.74	1,742.74	1,742.74	6.32	3.12	46.83	13.16	-1,505.32	1,425.98	1,416.63	9.35	152.529	
1,900.00	1,891.75	1,841.75	1,841.75	6.72	3.30	47.24	13.16	-1,505.32	1,416.35	1,406.44	9.91	142.952	
2,000.00	1,990.76	1,940.76	1,940.76	7.12	3.48	47.66	13.16	-1,505.32	1,406.79	1,396.32	10.47	134.372	
2,100.00	2,089.76	2,039.76	2,039.76	7.52	3.66	48.08	13.16	-1,505.32	1,397.31	1,386.27	11.03	126.646	
2,200.00	2,188.77	2,138.77	2,138.77	7.92	3.83	48.51	13.16	-1,505.32	1,387.90	1,376.30	11.60	119.656	
2,300.00	2,287.78	2,237.78	2,237.78	8.33	4.01	48.95	13.16	-1,505.32	1,378.58	1,366.41	12.17	113.306	
2,400.00	2,386.78	2,336.78	2,336.78	8.74	4.19	49.39	13.16	-1,505.32	1,369.33	1,356.60	12.74	107.514	
2,500.00	2,485.79	2,435.79	2,435.79	9.14	4.37	49.84	13.16	-1,505.32	1,360.17	1,346.86	13.31	102.211	
2,600.00	2,584.80	2,534.80	2,534.80	9.55	4.54	50.29	13.16	-1,505.32	1,351.09	1,337.21	13.88	97.340	
2,700.00	2,683.81	2,633.81	2,633.81	9.96	4.72	50.75	13.16	-1,505.32	1,342.10	1,327.65	14.45	92.851	
2,800.00	2,782.81	2,732.81	2,732.81	10.37	4.90	51.21	13.16	-1,505.32	1,333.20	1,318.17	15.03	88.703	
2,900.00	2,881.82	2,831.82	2,831.82	10.78	5.08	51.68	13.16	-1,505.32	1,324.38	1,308.77	15.61	84.860	
3,000.00	2,980.83	2,930.83	2,930.83	11.19	5.25	52.16	13.16	-1,505.32	1,315.66	1,299.47	16.18	81.290	
3,100.00	3,079.83	3,029.83	3,029.83	11.60	5.43	52.64	13.16	-1,505.32	1,307.03	1,290.26	16.76	77.965	
3,200.00	3,178.84	3,128.84	3,128.84	12.02	5.61	53.13	13.16	-1,505.32	1,298.49	1,281.15	17.34	74.863	
3,300.00	3,277.85	3,227.85	3,227.85	12.43	5.79	53.63	13.16	-1,505.32	1,290.05	1,272.12	17.93	71.963	
3,400.00	3,376.85	3,326.85	3,326.85	12.84	5.96	54.13	13.16	-1,505.32	1,281.71	1,263.20	18.51	69.246	
3,500.00	3,475.86	3,425.86	3,425.86	13.25	6.14	54.64	13.16	-1,505.32	1,273.47	1,254.38	19.09	66.697	
3,600.00	3,574.87	3,524.87	3,524.87	13.67	6.32	55.16	13.16	-1,505.32	1,265.33	1,245.65	19.68	64.300	
3,700.00	3,673.87	3,623.87	3,623.87	14.08	6.50	55.68	13.16	-1,505.32	1,257.30	1,237.04	20.26	62.044	
3,800.00	3,772.88	3,722.88	3,722.88	14.49	6.67	56.21	13.16	-1,505.32	1,249.37	1,228.52	20.85	59.917	
3,900.00	3,871.89	3,821.89	3,821.89	14.91	6.85	56.75	13.16	-1,505.32	1,241.56	1,220.12	21.44	57.908	
4,000.00	3,970.90	3,920.90	3,920.90	15.32	7.03	57.29	13.16	-1,505.32	1,233.85	1,211.82	22.03	56.009	
4,100.00	4,069.90	4,019.90	4,019.90	15.74	7.21	57.84	13.16	-1,505.32	1,226.25	1,203.63	22.62	54.212	
4,200.00	4,168.91	4,118.91	4,118.91	16.15	7.38	58.39	13.16	-1,505.32	1,218.77	1,195.56	23.21	52.509	
4,300.00	4,267.92	4,217.92	4,217.92	16.57	7.56	58.95	13.16	-1,505.32	1,211.41	1,187.61	23.80	50.893	
4,400.00	4,366.92	4,316.92	4,316.92	16.98	7.74	59.52	13.16	-1,505.32	1,204.17	1,179.77	24.40	49.359	
4,500.00	4,465.93	4,415.93	4,415.93	17.40	7.91	60.10	13.16	-1,505.32	1,197.05	1,172.06	24.99	47.900	
4,600.00	4,564.94	4,514.94	4,514.94	17.81	8.09	60.68	13.16	-1,505.32	1,190.05	1,164.46	25.59	46.513	
4,700.00	4,663.94	4,613.94	4,613.94	18.23	8.27	61.27	13.16	-1,505.32	1,183.17	1,156.99	26.18	45.192	
4,800.00	4,762.95	4,712.95	4,712.95	18.64	8.45	61.87	13.16	-1,505.32	1,176.43	1,149.65	26.78	43.933	
4,900.00	4,861.96	4,811.96	4,811.96	19.06	8.62	62.47	13.16	-1,505.32	1,169.81	1,142.44	27.38	42.732	
5,000.00	4,960.96	4,910.96	4,910.96	19.48	8.80	63.08	13.16	-1,505.32	1,163.33	1,135.36	27.97	41.587	
5,100.00	5,059.97	5,009.97	5,009.97	19.89	8.98	63.69	13.16	-1,505.32	1,156.98	1,128.41	28.57	40.492	
5,200.00	5,158.98	5,085.00	5,085.00	20.31	9.11	64.16	13.16	-1,505.32	1,151.02	1,121.88	29.14	39.497	
5,246.95	5,205.46	5,085.00	5,085.00	20.50	9.11	64.16	13.16	-1,505.32	1,150.06	1,120.73	29.33	39.212 CC, ES	
5,300.00	5,257.99	5,085.00	5,085.00	20.72	9.11	64.16	13.16	-1,505.32	1,151.29	1,121.80	29.48	39.047 SF	
5,400.00	5,356.99	5,085.00	5,085.00	21.14	9.11	64.16	13.16	-1,505.32	1,160.20	1,130.59	29.61	39.180	
5,500.00	5,456.00	5,085.00	5,085.00	21.56	9.11	64.16	13.16	-1,505.32	1,177.57	1,148.04	29.53	39.875	
5,600.00	5,555.01	5,085.00	5,085.00	21.97	9.11	64.16	13.16	-1,505.32	1,203.03	1,173.77	29.26	41.111	
5,700.00	5,654.01	5,085.00	5,085.00	22.39	9.11	64.16	13.16	-1,505.32	1,236.08	1,207.25	28.83	42.868	
5,800.00	5,753.02	5,085.00	5,085.00	22.81	9.11	64.16	13.16	-1,505.32	1,276.13	1,247.85	28.28	45.123	
5,900.00	5,852.03	5,085.00	5,085.00	23.22	9.11	64.16	13.16	-1,505.32	1,322.54	1,294.91	27.64	47.857	
6,000.00	5,951.03	5,085.00	5,085.00	23.64	9.11	64.16	13.16	-1,505.32	1,374.68	1,347.75	26.93	51.049	
6,100.00	6,050.04	5,085.00	5,085.00	24.06	9.11	64.16	13.16	-1,505.32	1,431.90	1,405.71	26.19	54.677	

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 4G-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 4G-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 - Johnson 1 - KPK - NO SURVEYS		Offset Site Error:		0.00 usft	
Survey Program: 5085-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 +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning				
6,200.00	6,149.05	5,085.00	5,085.00	24.47	9.11	64.16	13.16	-1,505.32	1,493.64	1,468.20	25.44	58.720					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	-11.21	93.15	-18.47	99.00				
100.00	100.00	71.99	71.99	0.14	0.13	-11.21	93.15	-18.47	94.96	94.69	0.26	359.887	
200.00	200.00	171.99	171.99	0.50	0.30	-11.21	93.15	-18.47	94.96	94.16	0.80	119.166	
300.00	300.00	271.99	271.99	0.85	0.47	-11.21	93.15	-18.47	94.96	93.63	1.33	71.405	
400.00	400.00	371.99	371.99	1.21	0.65	-11.21	93.15	-18.47	94.96	93.10	1.86	50.974	
500.00	500.00	471.99	471.99	1.57	0.82	-11.21	93.15	-18.47	94.96	92.56	2.40	39.634	
600.00	600.00	571.99	571.99	1.93	1.00	-11.21	93.15	-18.47	94.96	92.03	2.93	32.422	
700.00	700.00	671.99	671.99	2.29	1.17	-11.21	93.15	-18.47	94.96	91.50	3.46	27.430	
800.00	800.00	771.99	771.99	2.65	1.35	-11.21	93.15	-18.47	94.96	90.96	3.99	23.770	CC, ES
900.00	899.98	871.97	871.97	2.99	1.52	122.60	93.15	-18.47	95.89	91.37	4.51	21.244	
1,000.00	999.84	971.83	971.83	3.33	1.70	125.10	93.15	-18.47	98.81	93.78	5.02	19.668	
1,100.00	1,099.45	1,071.44	1,071.44	3.67	1.87	128.94	93.15	-18.47	104.07	98.53	5.54	18.781	
1,204.08	1,202.74	1,174.73	1,174.73	4.04	2.05	133.86	93.15	-18.47	112.55	106.46	6.09	18.489	SF
1,300.00	1,297.71	1,269.70	1,269.70	4.39	2.22	138.40	93.15	-18.47	122.33	115.73	6.59	18.551	
1,400.00	1,396.72	1,368.71	1,368.71	4.77	2.39	142.40	93.15	-18.47	133.21	126.09	7.12	18.703	
1,500.00	1,495.72	1,467.71	1,467.71	5.15	2.56	145.79	93.15	-18.47	144.64	136.99	7.65	18.903	
1,600.00	1,594.73	1,566.72	1,566.72	5.54	2.73	148.68	93.15	-18.47	156.50	148.32	8.18	19.127	
1,700.00	1,693.74	1,665.73	1,665.73	5.93	2.91	151.15	93.15	-18.47	168.69	159.98	8.71	19.362	
1,800.00	1,792.74	1,764.73	1,764.73	6.32	3.08	153.29	93.15	-18.47	181.16	171.92	9.24	19.598	
1,900.00	1,891.75	1,863.74	1,863.74	6.72	3.25	155.16	93.15	-18.47	193.85	184.07	9.78	19.830	
2,000.00	1,990.76	1,962.75	1,962.75	7.12	3.43	156.79	93.15	-18.47	206.71	196.40	10.31	20.054	
2,100.00	2,089.76	2,061.75	2,061.75	7.52	3.60	158.24	93.15	-18.47	219.72	208.88	10.84	20.268	
2,200.00	2,188.77	2,160.76	2,160.76	7.92	3.77	159.52	93.15	-18.47	232.85	221.48	11.37	20.473	
2,300.00	2,287.78	2,259.77	2,259.77	8.33	3.94	160.66	93.15	-18.47	246.08	234.18	11.91	20.666	
2,400.00	2,386.78	2,358.77	2,358.77	8.74	4.12	161.69	93.15	-18.47	259.40	246.96	12.44	20.850	
2,500.00	2,485.79	2,457.78	2,457.78	9.14	4.29	162.62	93.15	-18.47	272.80	259.82	12.98	21.023	
2,600.00	2,584.80	2,556.79	2,556.79	9.55	4.46	163.46	93.15	-18.47	286.26	272.75	13.51	21.187	
2,700.00	2,683.81	2,655.80	2,655.80	9.96	4.64	164.22	93.15	-18.47	299.77	285.72	14.05	21.342	
2,800.00	2,782.81	2,754.80	2,754.80	10.37	4.81	164.92	93.15	-18.47	313.33	298.75	14.58	21.488	
2,900.00	2,881.82	2,853.81	2,853.81	10.78	4.98	165.56	93.15	-18.47	326.93	311.82	15.12	21.626	
3,000.00	2,980.83	2,952.82	2,952.82	11.19	5.15	166.15	93.15	-18.47	340.57	324.92	15.65	21.756	
3,100.00	3,079.83	3,051.82	3,051.82	11.60	5.33	166.69	93.15	-18.47	354.25	338.06	16.19	21.880	
3,200.00	3,178.84	3,150.83	3,150.83	12.02	5.50	167.20	93.15	-18.47	367.95	351.22	16.73	21.997	
3,300.00	3,277.85	3,249.84	3,249.84	12.43	5.67	167.66	93.15	-18.47	381.68	364.41	17.26	22.107	
3,400.00	3,376.85	3,348.84	3,348.84	12.84	5.84	168.10	93.15	-18.47	395.43	377.63	17.80	22.213	
3,500.00	3,475.86	3,447.85	3,447.85	13.25	6.02	168.50	93.15	-18.47	409.20	390.86	18.34	22.313	
3,600.00	3,574.87	3,546.86	3,546.86	13.67	6.19	168.88	93.15	-18.47	422.99	404.11	18.88	22.408	
3,700.00	3,673.87	3,645.86	3,645.86	14.08	6.36	169.24	93.15	-18.47	436.80	417.38	19.42	22.498	
3,800.00	3,772.88	3,744.87	3,744.87	14.49	6.54	169.57	93.15	-18.47	450.62	430.67	19.95	22.584	
3,900.00	3,871.89	3,843.88	3,843.88	14.91	6.71	169.89	93.15	-18.47	464.46	443.97	20.49	22.666	
4,000.00	3,970.90	3,942.89	3,942.89	15.32	6.88	170.18	93.15	-18.47	478.31	457.28	21.03	22.744	
4,100.00	4,069.90	4,041.89	4,041.89	15.74	7.05	170.46	93.15	-18.47	492.17	470.60	21.57	22.819	
4,200.00	4,168.91	4,140.90	4,140.90	16.15	7.23	170.73	93.15	-18.47	506.04	483.94	22.11	22.891	
4,300.00	4,267.92	4,239.91	4,239.91	16.57	7.40	170.97	93.15	-18.47	519.93	497.28	22.65	22.959	
4,400.00	4,366.92	4,338.91	4,338.91	16.98	7.57	171.21	93.15	-18.47	533.82	510.63	23.18	23.025	
4,500.00	4,465.93	4,437.92	4,437.92	17.40	7.75	171.44	93.15	-18.47	547.72	524.00	23.72	23.088	
4,600.00	4,564.94	4,536.93	4,536.93	17.81	7.92	171.65	93.15	-18.47	561.63	537.37	24.26	23.148	
4,700.00	4,663.94	4,635.93	4,635.93	18.23	8.09	171.85	93.15	-18.47	575.54	550.74	24.80	23.206	
4,800.00	4,762.95	4,734.94	4,734.94	18.64	8.26	172.05	93.15	-18.47	589.47	564.12	25.34	23.261	
4,900.00	4,861.96	4,833.95	4,833.95	19.06	8.44	172.23	93.15	-18.47	603.39	577.51	25.88	23.315	
5,000.00	4,960.96	4,932.95	4,932.95	19.48	8.61	172.41	93.15	-18.47	617.33	590.91	26.42	23.366	
5,100.00	5,059.97	5,031.96	5,031.96	19.89	8.78	172.58	93.15	-18.47	631.27	604.31	26.96	23.415	

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 4G-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 4G-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	
5,200.00	5,158.98	5,119.99	5,119.99	20.31	8.94	172.72	93.15	-18.47	645.31	617.87	27.44	23.516	
5,300.00	5,257.99	5,119.99	5,119.99	20.72	8.94	172.72	93.15	-18.47	668.28	641.12	27.16	24.609	
5,400.00	5,356.99	5,119.99	5,119.99	21.14	8.94	172.72	93.15	-18.47	704.82	678.38	26.44	26.660	
5,500.00	5,456.00	5,119.99	5,119.99	21.56	8.94	172.72	93.15	-18.47	752.95	727.50	25.45	29.586	
5,600.00	5,555.01	5,119.99	5,119.99	21.97	8.94	172.72	93.15	-18.47	810.62	786.28	24.34	33.304	
5,700.00	5,654.01	5,119.99	5,119.99	22.39	8.94	172.72	93.15	-18.47	875.95	852.73	23.22	37.731	
5,800.00	5,753.02	5,119.99	5,119.99	22.81	8.94	172.72	93.15	-18.47	947.34	925.20	22.14	42.790	
5,900.00	5,852.03	5,119.99	5,119.99	23.22	8.94	172.72	93.15	-18.47	1,023.54	1,002.39	21.14	48.407	
6,000.00	5,951.03	5,119.99	5,119.99	23.64	8.94	172.72	93.15	-18.47	1,103.54	1,083.30	20.24	54.512	
6,100.00	6,050.04	5,119.99	5,119.99	24.06	8.94	172.72	93.15	-18.47	1,186.58	1,167.14	19.44	61.043	
6,200.00	6,149.05	5,119.99	5,119.99	24.47	8.94	172.72	93.15	-18.47	1,272.06	1,253.34	18.72	67.939	
6,300.00	6,248.05	5,119.99	5,119.99	24.89	8.94	172.72	93.15	-18.47	1,359.53	1,341.44	18.09	75.147	
6,400.00	6,347.06	5,119.99	5,119.99	25.31	8.94	172.72	93.15	-18.47	1,448.62	1,431.08	17.53	82.615	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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		
7,650.00	7,359.96	7,343.96	7,343.96	27.84	8.24	29.01	1,440.02	-485.08	1,486.50	1,451.09	35.41	41.975		
7,700.00	7,372.58	7,356.58	7,356.58	27.84	8.25	35.48	1,440.02	-485.08	1,438.71	1,403.25	35.46	40.573		
7,750.00	7,381.81	7,365.81	7,365.81	27.86	8.26	45.59	1,440.02	-485.08	1,390.16	1,354.66	35.50	39.160		
7,800.00	7,387.61	7,371.61	7,371.61	27.92	8.27	61.76	1,440.02	-485.08	1,341.08	1,305.54	35.53	37.740		
7,850.00	7,389.95	7,373.95	7,373.95	28.02	8.27	85.38	1,440.02	-485.08	1,291.70	1,256.13	35.57	36.318		
7,858.73	7,390.00	7,374.00	7,374.00	28.04	8.27	90.00	1,440.02	-485.08	1,283.07	1,247.50	35.57	36.070		
7,900.00	7,390.00	7,374.00	7,374.00	28.17	8.27	90.00	1,440.02	-485.08	1,242.27	1,206.67	35.60	34.897		
8,000.00	7,390.00	7,374.00	7,374.00	28.61	8.27	90.00	1,440.02	-485.08	1,143.54	1,107.87	35.67	32.058		
8,100.00	7,390.00	7,374.00	7,374.00	29.16	8.27	90.00	1,440.02	-485.08	1,045.07	1,009.30	35.76	29.222		
8,200.00	7,390.00	7,374.00	7,374.00	29.79	8.27	90.00	1,440.02	-485.08	946.91	911.03	35.88	26.389		
8,300.00	7,390.00	7,374.00	7,374.00	30.50	8.27	90.00	1,440.02	-485.08	849.18	813.14	36.04	23.562		
8,400.00	7,390.00	7,374.00	7,374.00	31.27	8.27	90.00	1,440.02	-485.08	752.05	715.79	36.25	20.744		
8,500.00	7,390.00	7,374.00	7,374.00	32.10	8.27	90.00	1,440.02	-485.08	655.78	619.22	36.55	17.940		
8,600.00	7,390.00	7,374.00	7,374.00	32.98	8.27	90.00	1,440.02	-485.08	560.82	523.82	37.00	15.159		
8,700.00	7,390.00	7,374.00	7,374.00	33.91	8.27	90.00	1,440.02	-485.08	467.96	430.27	37.68	12.418		
8,800.00	7,390.00	7,374.00	7,374.00	34.89	8.27	90.00	1,440.02	-485.08	378.75	339.95	38.81	9.760		
8,900.00	7,390.00	7,374.00	7,374.00	35.91	8.27	90.00	1,440.02	-485.08	296.52	255.82	40.70	7.285		
9,000.00	7,390.00	7,374.00	7,374.00	36.96	8.27	90.00	1,440.02	-485.08	228.90	185.22	43.68	5.240		
9,100.00	7,390.00	7,374.00	7,374.00	38.06	8.27	90.00	1,440.02	-485.08	192.00	145.67	46.33	4.144		
9,127.65	7,390.00	7,374.00	7,374.00	38.37	8.27	90.00	1,440.02	-485.08	190.00	143.56	46.43	4.092 CC, ES, SF		
9,200.00	7,390.00	7,374.00	7,374.00	39.18	8.27	90.00	1,440.02	-485.08	203.31	158.34	44.97	4.521		
9,300.00	7,390.00	7,374.00	7,374.00	40.34	8.27	90.00	1,440.02	-485.08	256.52	215.06	41.47	6.186		
9,400.00	7,390.00	7,374.00	7,374.00	41.52	8.27	90.00	1,440.02	-485.08	332.07	293.09	38.98	8.518		
9,500.00	7,390.00	7,374.00	7,374.00	42.73	8.27	90.00	1,440.02	-485.08	418.02	380.43	37.59	11.119		
9,600.00	7,390.00	7,374.00	7,374.00	43.96	8.27	90.00	1,440.02	-485.08	509.13	472.31	36.82	13.827		
9,700.00	7,390.00	7,374.00	7,374.00	45.22	8.27	90.00	1,440.02	-485.08	603.06	566.69	36.37	16.581		
9,800.00	7,390.00	7,374.00	7,374.00	46.49	8.27	90.00	1,440.02	-485.08	698.68	662.58	36.10	19.355		
9,900.00	7,390.00	7,374.00	7,374.00	47.79	8.27	90.00	1,440.02	-485.08	795.38	759.45	35.93	22.138		
10,000.00	7,390.00	7,374.00	7,374.00	49.10	8.27	90.00	1,440.02	-485.08	892.80	856.98	35.82	24.925		
10,100.00	7,390.00	7,374.00	7,374.00	50.42	8.27	90.00	1,440.02	-485.08	990.74	954.99	35.75	27.714		
10,200.00	7,390.00	7,374.00	7,374.00	51.76	8.27	90.00	1,440.02	-485.08	1,089.05	1,053.35	35.71	30.500		
10,300.00	7,390.00	7,374.00	7,374.00	53.11	8.27	90.00	1,440.02	-485.08	1,187.65	1,151.97	35.68	33.285		
10,400.00	7,390.00	7,374.00	7,374.00	54.48	8.27	90.00	1,440.02	-485.08	1,286.46	1,250.79	35.67	36.066		
10,500.00	7,390.00	7,374.00	7,374.00	55.86	8.27	90.00	1,440.02	-485.08	1,385.44	1,349.77	35.67	38.844		
10,600.00	7,390.00	7,374.00	7,374.00	57.24	8.27	90.00	1,440.02	-485.08	1,484.56	1,448.89	35.67	41.617		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 33-26 - CPR WELL - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 100- GyroFlex													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	7,390.00	7,355.85	7,355.12	29.16	7.48	-90.72	1,409.97	-1,720.41	1,449.74	1,414.66	35.08	41.326		
8,200.00	7,390.00	7,355.25	7,354.52	29.79	7.48	-90.69	1,409.98	-1,720.42	1,382.35	1,346.89	35.46	38.978		
8,300.00	7,390.00	7,354.64	7,353.91	30.50	7.48	-90.65	1,409.98	-1,720.42	1,319.11	1,283.12	35.99	36.656		
8,400.00	7,390.00	7,354.04	7,353.31	31.27	7.48	-90.62	1,409.98	-1,720.42	1,260.63	1,223.96	36.67	34.381		
8,500.00	7,390.00	7,353.43	7,352.70	32.10	7.48	-90.59	1,409.99	-1,720.43	1,207.61	1,170.10	37.52	32.188		
8,600.00	7,390.00	7,352.82	7,352.09	32.98	7.48	-90.55	1,409.99	-1,720.43	1,160.81	1,122.27	38.54	30.119		
8,700.00	7,390.00	7,352.21	7,351.48	33.91	7.48	-90.52	1,410.00	-1,720.44	1,120.99	1,081.26	39.73	28.218		
8,800.00	7,390.00	7,351.60	7,350.87	34.89	7.48	-90.49	1,410.00	-1,720.44	1,088.93	1,047.89	41.04	26.535		
8,900.00	7,390.00	7,350.99	7,350.26	35.91	7.48	-90.45	1,410.00	-1,720.44	1,065.32	1,022.89	42.42	25.112		
9,000.00	7,390.00	7,350.37	7,349.64	36.96	7.48	-90.42	1,410.01	-1,720.45	1,050.73	1,006.91	43.82	23.979		
9,100.00	7,390.00	7,349.76	7,349.03	38.06	7.48	-90.39	1,410.01	-1,720.45	1,045.55	1,000.40	45.15	23.157		
9,104.31	7,390.00	7,349.73	7,349.00	38.11	7.48	-90.38	1,410.01	-1,720.45	1,045.54	1,000.34	45.21	23.129 CC, ES		
9,200.00	7,390.00	7,349.14	7,348.41	39.18	7.48	-90.35	1,410.01	-1,720.46	1,049.91	1,003.56	46.35	22.651		
9,300.00	7,390.00	7,348.52	7,347.79	40.34	7.48	-90.32	1,410.02	-1,720.46	1,063.70	1,016.32	47.37	22.454 SF		
9,400.00	7,390.00	7,347.89	7,347.16	41.52	7.48	-90.28	1,410.02	-1,720.47	1,086.55	1,038.36	48.19	22.549		
9,500.00	7,390.00	7,347.27	7,346.54	42.73	7.48	-90.25	1,410.03	-1,720.47	1,117.91	1,069.12	48.79	22.914		
9,600.00	7,390.00	7,346.64	7,345.91	43.96	7.48	-90.21	1,410.03	-1,720.47	1,157.09	1,107.90	49.19	23.524		
9,700.00	7,390.00	7,346.01	7,345.28	45.22	7.48	-90.18	1,410.03	-1,720.48	1,203.33	1,153.91	49.42	24.351		
9,800.00	7,390.00	7,345.38	7,344.65	46.49	7.48	-90.15	1,410.04	-1,720.48	1,255.84	1,206.34	49.50	25.370		
9,900.00	7,390.00	7,344.75	7,344.02	47.79	7.48	-90.11	1,410.04	-1,720.49	1,313.87	1,264.40	49.47	26.557		
10,000.00	7,390.00	7,344.12	7,343.39	49.10	7.48	-90.08	1,410.05	-1,720.49	1,376.73	1,327.37	49.36	27.890		
10,100.00	7,390.00	7,343.48	7,342.75	50.42	7.48	-90.04	1,410.05	-1,720.50	1,443.79	1,394.59	49.19	29.348		

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 4G-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 4G-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 34-26 - CPR WELL - SURVEYS													Offset Site Error: 0.00 usft	
Survey Program: 100-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		
4,400.00	4,366.92	4,278.39	4,271.46	16.98	8.02	50.93	-120.00	-1,829.77	1,494.94	1,470.43	24.51	60.997		
4,500.00	4,465.93	4,377.52	4,370.54	17.40	8.18	51.34	-119.74	-1,832.83	1,489.18	1,464.10	25.08	59.377		
4,600.00	4,564.94	4,479.88	4,472.86	17.81	8.35	51.76	-119.52	-1,835.94	1,483.43	1,457.78	25.65	57.824		
4,700.00	4,663.94	4,578.40	4,571.34	18.23	8.51	52.19	-118.97	-1,838.75	1,477.62	1,451.40	26.23	56.341		
4,800.00	4,762.95	4,675.22	4,668.11	18.64	8.66	52.61	-118.62	-1,841.66	1,472.03	1,445.24	26.80	54.933		
4,900.00	4,861.96	4,798.15	4,791.00	19.06	8.87	53.14	-118.14	-1,844.68	1,466.03	1,438.63	27.40	53.503		
5,000.00	4,960.96	4,915.45	4,908.29	19.48	9.06	53.67	-117.92	-1,845.63	1,458.42	1,430.43	28.00	52.096		
5,100.00	5,059.97	5,020.98	5,013.82	19.89	9.23	54.14	-117.96	-1,845.61	1,450.06	1,421.48	28.58	50.740		
5,200.00	5,158.98	5,118.03	5,110.87	20.31	9.40	54.58	-118.05	-1,845.48	1,441.67	1,412.51	29.15	49.449		
5,300.00	5,257.99	5,214.81	5,207.65	20.72	9.56	55.01	-118.38	-1,845.63	1,433.58	1,403.85	29.73	48.212		
5,400.00	5,356.99	5,322.74	5,315.58	21.14	9.75	55.45	-119.79	-1,845.64	1,425.25	1,394.92	30.33	46.993		
5,500.00	5,456.00	5,422.13	5,414.95	21.56	9.92	55.87	-121.14	-1,845.29	1,416.63	1,385.72	30.91	45.827		
5,600.00	5,555.01	5,511.95	5,504.77	21.97	10.07	56.29	-121.37	-1,845.15	1,408.51	1,377.02	31.49	44.734		
5,700.00	5,654.01	5,606.52	5,599.34	22.39	10.23	56.73	-121.60	-1,845.46	1,400.96	1,368.90	32.07	43.687		
5,800.00	5,753.02	5,710.74	5,703.56	22.81	10.41	57.20	-122.32	-1,845.91	1,393.50	1,360.84	32.66	42.668		
5,900.00	5,852.03	5,819.72	5,812.53	23.22	10.59	57.72	-122.82	-1,845.51	1,385.40	1,352.15	33.25	41.664		
6,000.00	5,951.03	5,908.72	5,901.53	23.64	10.74	58.15	-123.23	-1,845.29	1,377.54	1,343.71	33.83	40.717		
6,100.00	6,050.04	5,991.94	5,984.75	24.06	10.88	58.54	-123.54	-1,845.90	1,370.72	1,336.32	34.41	39.840		
6,200.00	6,149.05	6,094.18	6,086.98	24.47	11.06	59.04	-123.79	-1,847.18	1,364.53	1,329.53	35.00	38.989		
6,300.00	6,248.05	6,188.04	6,180.83	24.89	11.21	59.51	-123.63	-1,848.24	1,358.42	1,322.84	35.58	38.180		
6,400.00	6,347.06	6,282.39	6,275.17	25.31	11.36	60.03	-122.51	-1,849.40	1,352.82	1,316.66	36.16	37.414		
6,500.00	6,446.07	6,383.83	6,376.58	25.72	11.53	60.61	-120.61	-1,850.56	1,347.47	1,310.72	36.75	36.670		
6,600.00	6,545.07	6,485.19	6,477.92	26.14	11.69	61.22	-118.58	-1,851.43	1,342.02	1,304.68	37.33	35.946		
6,665.43	6,609.86	6,551.83	6,544.54	26.41	11.79	61.62	-117.17	-1,851.86	1,338.43	1,300.71	37.72	35.484		
6,700.00	6,644.15	6,587.18	6,579.89	26.55	11.85	63.55	-116.38	-1,852.04	1,336.24	1,298.33	37.92	35.241		
6,750.00	6,693.86	6,639.04	6,631.73	26.74	11.93	6.85	-115.22	-1,852.23	1,332.07	1,293.88	38.18	34.886		
6,800.00	6,743.50	6,691.06	6,683.74	26.90	12.02	-22.79	-114.13	-1,852.35	1,326.67	1,288.25	38.42	34.528		
6,850.00	6,792.82	6,741.53	6,734.20	27.05	12.10	-39.08	-113.18	-1,852.43	1,320.10	1,281.46	38.64	34.165		
6,900.00	6,841.57	6,791.19	6,783.85	27.19	12.18	-48.43	-112.41	-1,852.54	1,312.45	1,273.62	38.83	33.796		
6,950.00	6,889.53	6,838.00	6,830.66	27.31	12.26	-54.60	-111.76	-1,852.67	1,303.85	1,264.84	39.01	33.425		
7,000.00	6,936.45	6,883.44	6,876.09	27.41	12.33	-59.21	-111.12	-1,852.85	1,294.48	1,255.32	39.16	33.054		
7,050.00	6,982.12	6,929.90	6,922.55	27.51	12.41	-63.04	-110.45	-1,853.07	1,284.45	1,245.16	39.30	32.684		
7,100.00	7,026.30	6,976.17	6,968.81	27.59	12.49	-66.45	-109.76	-1,853.23	1,273.86	1,234.44	39.42	32.316		
7,150.00	7,068.78	7,018.42	7,011.06	27.66	12.56	-69.53	-109.11	-1,853.33	1,262.92	1,223.40	39.52	31.956		
7,200.00	7,109.36	7,056.36	7,048.99	27.71	12.62	-72.37	-108.50	-1,853.49	1,251.98	1,212.37	39.61	31.610		
7,250.00	7,147.83	7,092.45	7,085.08	27.76	12.68	-75.04	-107.89	-1,853.73	1,241.29	1,201.61	39.68	31.281		
7,300.00	7,184.01	7,128.40	7,121.02	27.79	12.74	-77.63	-107.29	-1,854.02	1,231.08	1,191.33	39.75	30.970		
7,350.00	7,217.73	7,162.38	7,155.00	27.82	12.79	-80.08	-106.77	-1,854.32	1,221.56	1,181.75	39.81	30.683		
7,400.00	7,248.81	7,193.67	7,186.28	27.83	12.85	-82.34	-106.35	-1,854.62	1,213.02	1,173.14	39.87	30.421		
7,450.00	7,277.12	7,224.90	7,217.51	27.84	12.90	-84.49	-105.93	-1,854.89	1,205.69	1,165.75	39.94	30.190		
7,500.00	7,302.50	7,253.87	7,246.48	27.85	12.95	-86.43	-105.48	-1,855.07	1,199.80	1,159.80	40.01	29.990		
7,550.00	7,324.84	7,279.66	7,272.27	27.84	12.99	-88.10	-105.03	-1,855.17	1,195.61	1,155.52	40.09	29.826		
7,600.00	7,344.02	7,299.99	7,292.58	27.84	13.02	-89.36	-104.64	-1,855.20	1,193.34	1,153.16	40.18	29.700		
7,627.82	7,353.30	7,311.05	7,303.65	27.84	13.04	-89.97	-104.42	-1,855.22	1,192.99	1,152.75	40.24	29.647 CC, ES		
7,650.00	7,359.96	7,317.75	7,310.34	27.84	13.05	-90.32	-104.29	-1,855.23	1,193.22	1,152.93	40.29	29.616		
7,700.00	7,372.58	7,330.58	7,323.17	27.84	13.07	-90.85	-104.04	-1,855.25	1,195.40	1,154.98	40.42	29.575 SF		
7,750.00	7,381.81	7,340.22	7,332.81	27.86	13.09	-91.02	-103.85	-1,855.27	1,199.97	1,159.40	40.56	29.582		
7,800.00	7,387.61	7,346.63	7,339.22	27.92	13.10	-90.81	-103.72	-1,855.29	1,206.96	1,166.23	40.73	29.636		
7,850.00	7,389.95	7,349.77	7,342.36	28.02	13.10	-90.22	-103.66	-1,855.30	1,216.35	1,175.45	40.90	29.739		
7,858.73	7,390.00	7,349.98	7,342.57	28.04	13.10	-90.08	-103.65	-1,855.30	1,218.23	1,177.30	40.93	29.762		
7,900.00	7,390.00	7,350.75	7,343.34	28.17	13.10	-90.11	-103.64	-1,855.31	1,227.94	1,186.85	41.09	29.884		
8,000.00	7,390.00	7,352.61	7,345.20	28.61	13.11	-90.20	-103.60	-1,855.31	1,256.81	1,215.28	41.53	30.264		

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 4G-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 4G-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 34-26 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 100-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	
8,100.00	7,390.00	7,354.47	7,347.06	29.16	13.11	-90.29	-103.57	-1,855.32	1,292.78	1,250.76	42.02	30.766	
8,200.00	7,390.00	7,356.32	7,348.91	29.79	13.11	-90.38	-103.53	-1,855.33	1,335.28	1,292.74	42.54	31.389	
8,300.00	7,390.00	7,358.18	7,350.76	30.50	13.12	-90.47	-103.49	-1,855.33	1,383.71	1,340.65	43.06	32.133	
8,400.00	7,390.00	7,360.03	7,352.62	31.27	13.12	-90.56	-103.46	-1,855.34	1,437.48	1,393.91	43.57	32.990	
8,500.00	7,390.00	7,361.88	7,354.47	32.10	13.12	-90.65	-103.42	-1,855.35	1,496.00	1,451.95	44.06	33.955	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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	-154.71	-14.61	-6.90	30.62				
100.00	100.00	73.92	73.92	0.14	0.13	-155.41	-14.85	-6.79	16.33	16.06	0.27	60.483	
200.00	200.00	173.86	173.86	0.50	0.30	-157.42	-15.68	-6.52	16.98	16.18	0.80	21.163	
300.00	300.00	273.90	273.89	0.85	0.48	-158.46	-16.48	-6.50	17.71	16.38	1.33	13.278	
400.00	400.00	373.96	373.95	1.21	0.65	-159.03	-16.88	-6.47	18.07	16.21	1.87	9.683	
500.00	500.00	473.92	473.92	1.57	0.83	-159.31	-17.12	-6.47	18.31	15.91	2.40	7.628	
600.00	600.00	573.90	573.89	1.93	1.00	-160.63	-17.75	-6.24	18.81	15.88	2.93	6.415	
700.00	700.00	673.90	673.89	2.29	1.18	-162.19	-18.42	-5.92	19.35	15.88	3.47	5.582	
800.00	800.00	773.74	773.72	2.65	1.35	-163.58	-19.34	-5.70	20.16	16.16	4.00	5.042	
900.00	899.98	873.81	873.78	2.99	1.53	-33.45	-20.67	-5.99	20.04	15.52	4.52	4.436	
1,000.00	999.84	973.84	973.80	3.33	1.70	-41.37	-21.07	-6.75	16.39	11.37	5.03	3.261	
1,100.00	1,099.45	1,073.51	1,073.48	3.67	1.88	-68.26	-21.01	-7.51	11.06	5.51	5.55	1.994	
1,142.44	1,141.62	1,115.70	1,115.66	3.82	1.95	-92.42	-20.99	-7.81	10.05	4.28	5.77	1.743	CC, ES, SF
1,204.08	1,202.74	1,176.84	1,176.80	4.04	2.06	-129.50	-21.00	-8.20	12.73	6.64	6.09	2.091	
1,300.00	1,297.71	1,271.90	1,271.86	4.39	2.22	-155.60	-21.13	-8.76	23.17	16.59	6.59	3.519	
1,400.00	1,396.72	1,370.99	1,370.95	4.77	2.40	-165.01	-21.32	-9.45	35.74	28.64	7.10	5.031	
1,500.00	1,495.72	1,470.13	1,470.09	5.15	2.57	-169.62	-21.40	-10.21	48.78	41.16	7.63	6.396	
1,600.00	1,594.73	1,569.26	1,569.21	5.54	2.74	-172.22	-21.60	-11.03	61.88	53.73	8.15	7.590	
1,700.00	1,693.74	1,668.47	1,668.42	5.93	2.92	-173.88	-21.87	-11.86	75.01	66.33	8.68	8.641	
1,800.00	1,792.74	1,767.75	1,767.69	6.32	3.09	-175.14	-22.13	-12.92	88.01	78.80	9.21	9.554	
1,900.00	1,891.75	1,866.99	1,866.92	6.72	3.26	-176.23	-22.27	-14.27	100.89	91.15	9.74	10.356	
2,000.00	1,990.76	1,966.25	1,966.17	7.12	3.44	-177.33	-22.06	-15.99	113.74	103.46	10.28	11.069	
2,100.00	2,089.76	2,064.99	2,064.88	7.52	3.61	-178.39	-21.52	-17.96	126.65	115.84	10.81	11.720	
2,200.00	2,188.77	2,163.56	2,163.44	7.92	3.78	-179.37	-20.47	-19.76	140.06	128.72	11.34	12.353	
2,300.00	2,287.78	2,262.14	2,261.99	8.33	3.96	-179.82	-19.21	-21.35	153.80	141.93	11.87	12.956	
2,400.00	2,386.78	2,361.63	2,361.47	8.74	4.13	-179.19	-17.97	-22.74	167.70	155.29	12.41	13.514	
2,500.00	2,485.79	2,461.69	2,461.50	9.14	4.31	-178.71	-17.22	-24.45	181.06	168.10	12.95	13.979	
2,600.00	2,584.80	2,561.22	2,561.02	9.55	4.48	-178.31	-16.81	-26.38	194.02	180.53	13.49	14.380	
2,700.00	2,683.81	2,660.34	2,660.12	9.96	4.66	-177.96	-16.43	-28.37	206.93	192.90	14.03	14.748	
2,800.00	2,782.81	2,759.62	2,759.37	10.37	4.84	-177.63	-15.98	-30.40	219.87	205.30	14.57	15.090	
2,900.00	2,881.82	2,859.32	2,859.05	10.78	5.01	-177.33	-15.61	-32.57	232.66	217.55	15.11	15.395	
3,000.00	2,980.83	2,958.48	2,958.18	11.19	5.19	-177.08	-15.43	-34.81	245.27	229.62	15.65	15.669	
3,100.00	3,079.83	3,056.96	3,056.64	11.60	5.36	-176.82	-15.03	-36.98	258.08	241.89	16.19	15.940	
3,200.00	3,178.84	3,155.96	3,155.61	12.02	5.54	-176.55	-14.33	-39.15	271.12	254.38	16.73	16.204	
3,300.00	3,277.85	3,254.10	3,253.73	12.43	5.71	-176.28	-13.53	-41.35	284.20	266.94	17.27	16.459	
3,400.00	3,376.85	3,350.60	3,350.20	12.84	5.88	-176.05	-12.28	-43.05	297.97	280.18	17.79	16.746	
3,500.00	3,475.86	3,447.90	3,447.48	13.25	6.05	-175.82	-10.36	-44.24	312.60	294.27	18.33	17.059	
3,600.00	3,574.87	3,547.53	3,547.08	13.67	6.23	-175.61	-8.34	-45.36	327.33	308.46	18.87	17.346	
3,700.00	3,673.87	3,647.44	3,646.97	14.08	6.41	-175.41	-6.57	-46.78	341.69	322.27	19.42	17.596	
3,800.00	3,772.88	3,746.56	3,746.05	14.49	6.58	-175.23	-4.87	-48.28	355.94	335.98	19.96	17.831	
3,900.00	3,871.89	3,845.15	3,844.63	14.91	6.76	-175.06	-3.20	-49.75	370.19	349.69	20.50	18.056	
4,000.00	3,970.90	3,945.33	3,944.79	15.32	6.93	-174.96	-1.68	-50.92	384.54	363.49	21.05	18.267	
4,100.00	4,069.90	4,045.10	4,044.53	15.74	7.11	-174.85	-0.58	-52.58	398.25	376.65	21.60	18.439	
4,200.00	4,168.91	4,142.51	4,141.92	16.15	7.28	-174.74	0.86	-53.96	412.40	390.27	22.13	18.634	
4,300.00	4,267.92	4,241.55	4,240.94	16.57	7.46	-174.63	2.42	-55.42	426.59	403.92	22.68	18.813	
4,400.00	4,366.92	4,339.48	4,338.85	16.98	7.63	-174.51	4.13	-56.87	440.91	417.70	23.21	18.994	
4,500.00	4,465.93	4,437.12	4,436.47	17.40	7.81	-174.41	5.96	-58.00	455.53	431.79	23.75	19.182	
4,600.00	4,564.94	4,535.41	4,534.72	17.81	7.98	-174.26	8.29	-59.39	470.35	446.06	24.29	19.365	
4,700.00	4,663.94	4,633.77	4,633.03	18.23	8.16	-174.10	10.79	-60.84	485.27	460.44	24.83	19.543	
4,800.00	4,762.95	4,731.68	4,730.89	18.64	8.33	-173.93	13.50	-62.29	500.35	474.98	25.37	19.722	
4,900.00	4,861.96	4,828.74	4,827.90	19.06	8.51	-173.74	16.52	-63.80	515.65	489.74	25.91	19.905	
5,000.00	4,960.96	4,924.89	4,923.96	19.48	8.68	-173.51	20.21	-65.29	531.49	505.06	26.44	20.105	

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 4G-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 4G-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
5,100.00	5,059.97	5,023.90	5,022.87	19.89	8.86	173.26	24.31	-67.01	547.45	520.46	26.99	20.286	
5,200.00	5,158.98	5,122.13	5,121.02	20.31	9.04	173.05	28.23	-68.42	563.51	535.98	27.53	20.469	
5,300.00	5,257.99	5,224.09	5,222.89	20.72	9.22	172.88	31.95	-69.80	579.36	551.26	28.10	20.620	
5,400.00	5,356.99	5,327.14	5,325.89	21.14	9.41	172.75	34.77	-71.49	594.34	565.67	28.67	20.731	
5,500.00	5,456.00	5,422.52	5,421.23	21.56	9.58	172.66	37.28	-72.82	609.40	580.21	29.19	20.874	
5,600.00	5,555.01	5,518.34	5,517.00	21.97	9.75	172.60	40.16	-73.61	625.11	595.39	29.72	21.033	
5,700.00	5,654.01	5,621.81	5,620.43	22.39	9.94	172.55	42.94	-74.43	640.60	610.30	30.29	21.147	
5,800.00	5,753.02	5,723.93	5,722.52	22.81	10.12	172.49	45.16	-75.81	655.33	624.47	30.86	21.238	
5,900.00	5,852.03	5,819.79	5,818.33	23.22	10.29	172.41	47.56	-77.28	670.21	638.83	31.39	21.354	
6,000.00	5,951.03	5,918.06	5,916.56	23.64	10.47	172.36	50.05	-78.47	685.32	653.39	31.93	21.465	
6,100.00	6,050.04	6,015.17	6,013.66	24.06	10.64	172.39	51.95	-78.74	700.57	668.12	32.46	21.585	
6,200.00	6,149.05	6,111.36	6,109.83	24.47	10.80	172.51	53.48	-77.95	716.24	683.26	32.98	21.719	
6,300.00	6,248.05	6,217.55	6,216.01	24.89	10.99	172.68	54.37	-76.94	731.42	697.86	33.56	21.796	
6,400.00	6,347.06	6,317.82	6,316.28	25.31	11.16	172.80	55.10	-76.61	746.13	712.03	34.10	21.878	
6,500.00	6,446.07	6,420.79	6,419.25	25.72	11.34	172.93	55.45	-76.51	760.40	725.74	34.66	21.937	
6,600.00	6,545.07	6,519.80	6,518.26	26.14	11.51	173.06	55.45	-76.38	774.44	739.24	35.20	22.000	
6,665.43	6,609.86	6,583.51	6,581.97	26.41	11.62	173.15	55.46	-76.22	783.69	748.14	35.55	22.046	
6,700.00	6,644.15	6,617.67	6,616.13	26.55	11.68	154.92	55.48	-76.10	787.98	752.24	35.73	22.053	
6,750.00	6,693.86	6,667.83	6,666.29	26.74	11.76	118.46	55.48	-75.93	791.94	755.95	36.00	22.001	
6,800.00	6,743.50	6,717.62	6,716.08	26.90	11.85	89.59	55.46	-75.77	793.28	757.02	36.25	21.883	
6,850.00	6,792.82	6,766.57	6,765.03	27.05	11.93	74.60	55.47	-75.63	792.05	755.56	36.49	21.703	
6,900.00	6,841.57	6,814.73	6,813.19	27.19	12.02	67.08	55.52	-75.50	788.37	751.64	36.73	21.465	
6,950.00	6,889.53	6,861.58	6,860.04	27.31	12.10	63.23	55.59	-75.33	782.35	745.40	36.95	21.173	
7,000.00	6,936.45	6,907.60	6,906.06	27.41	12.18	61.44	55.70	-75.09	774.17	737.00	37.17	20.830	
7,050.00	6,982.12	6,953.31	6,951.76	27.51	12.26	60.98	55.82	-74.85	763.94	726.56	37.38	20.438	
7,100.00	7,026.30	6,997.56	6,996.01	27.59	12.33	61.45	55.95	-74.63	751.87	714.28	37.58	20.005	
7,150.00	7,068.78	7,041.19	7,039.65	27.66	12.41	62.68	56.09	-74.46	738.17	700.38	37.79	19.532	
7,200.00	7,109.36	7,082.97	7,081.42	27.71	12.48	64.50	56.23	-74.38	723.10	685.10	38.00	19.030	
7,250.00	7,147.83	7,122.57	7,121.02	27.76	12.55	66.78	56.35	-74.39	707.01	668.81	38.20	18.507	
7,300.00	7,184.01	7,159.73	7,158.19	27.79	12.61	69.43	56.43	-74.42	690.28	651.88	38.41	17.973	
7,350.00	7,217.73	7,194.31	7,192.76	27.82	12.67	72.35	56.46	-74.48	673.36	634.74	38.62	17.437	
7,400.00	7,248.81	7,224.58	7,223.03	27.83	12.73	75.29	56.48	-74.53	656.74	617.91	38.82	16.916	
7,450.00	7,277.12	7,251.85	7,250.30	27.84	12.77	78.22	56.50	-74.53	640.98	601.94	39.04	16.419	
7,500.00	7,302.50	7,276.34	7,274.79	27.85	12.81	81.04	56.54	-74.49	626.61	587.34	39.27	15.958	
7,550.00	7,324.84	7,297.93	7,296.38	27.84	12.85	83.63	56.58	-74.43	614.13	574.63	39.51	15.545	
7,600.00	7,344.02	7,317.10	7,315.55	27.84	12.89	85.94	56.62	-74.36	604.07	564.31	39.76	15.193	
7,650.00	7,359.96	7,333.18	7,331.63	27.84	12.91	87.83	56.67	-74.31	596.87	556.85	40.02	14.915	
7,700.00	7,372.58	7,346.00	7,344.45	27.84	12.94	89.23	56.72	-74.26	592.94	552.67	40.27	14.724	
7,729.96	7,378.52	7,352.09	7,350.54	27.85	12.95	89.81	56.75	-74.24	592.28	551.87	40.42	14.655	
7,750.00	7,381.81	7,355.48	7,353.94	27.86	12.95	90.08	56.76	-74.23	592.58	552.08	40.51	14.629	
7,800.00	7,387.61	7,361.56	7,360.01	27.92	12.96	90.34	56.79	-74.21	595.96	555.24	40.72	14.636	
7,850.00	7,389.95	7,364.17	7,362.63	28.02	12.97	90.00	56.81	-74.21	603.11	562.21	40.90	14.747	
7,858.73	7,390.00	7,364.27	7,362.73	28.04	12.97	89.88	56.81	-74.21	604.73	563.81	40.92	14.777	
7,900.00	7,390.00	7,364.48	7,362.94	28.17	12.97	89.90	56.81	-74.20	614.02	572.98	41.04	14.962	
8,000.00	7,390.00	7,365.00	7,363.45	28.61	12.97	89.95	56.81	-74.20	646.97	605.73	41.24	15.686	
8,100.00	7,390.00	7,365.52	7,363.97	29.16	12.97	90.00	56.81	-74.20	692.91	651.56	41.35	16.757	
8,200.00	7,390.00	7,366.05	7,364.50	29.79	12.97	90.05	56.82	-74.20	749.45	708.07	41.38	18.112	
8,300.00	7,390.00	7,366.58	7,365.03	30.50	12.97	90.10	56.82	-74.20	814.38	773.02	41.36	19.691	
8,400.00	7,390.00	7,367.12	7,365.57	31.27	12.97	90.15	56.82	-74.20	885.87	844.56	41.31	21.445	
8,500.00	7,390.00	7,367.66	7,366.11	32.10	12.97	90.20	56.83	-74.19	962.45	921.20	41.25	23.334	
8,600.00	7,390.00	7,368.21	7,366.66	32.98	12.97	90.26	56.83	-74.19	1,043.00	1,001.82	41.18	25.327	
8,700.00	7,390.00	7,368.76	7,367.21	33.91	12.97	90.31	56.83	-74.19	1,126.68	1,085.56	41.12	27.402	

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 4G-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 4G-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
8,800.00	7,390.00	7,369.32	7,367.77	34.89	12.98	90.37	56.83	-74.19	1,212.83	1,171.77	41.06	29.540	
8,900.00	7,390.00	7,369.88	7,368.34	35.91	12.98	90.42	56.84	-74.19	1,300.96	1,259.96	41.00	31.728	
9,000.00	7,390.00	7,370.45	7,368.91	36.96	12.98	90.47	56.84	-74.19	1,390.70	1,349.74	40.96	33.957	
9,100.00	7,390.00	7,371.03	7,369.48	38.06	12.98	90.53	56.84	-74.18	1,481.75	1,440.84	40.91	36.217	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 4-6-26 - CPR WELL - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 74-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		
7,700.00	7,372.58	7,409.58	7,337.15	27.84	18.40	-82.36	741.58	-1,953.01	1,479.48	1,435.19	44.29	33.406		
7,750.00	7,381.81	7,419.48	7,347.04	27.86	18.41	-85.14	741.70	-1,952.96	1,454.83	1,410.34	44.49	32.698		
7,800.00	7,387.61	7,425.94	7,353.50	27.92	18.42	-87.58	741.79	-1,952.93	1,431.52	1,386.81	44.71	32.015		
7,850.00	7,389.95	7,428.93	7,356.49	28.02	18.42	-89.66	741.82	-1,952.91	1,409.78	1,364.83	44.95	31.361		
7,858.73	7,390.00	7,429.09	7,356.65	28.04	18.42	-89.98	741.83	-1,952.91	1,406.16	1,361.16	45.00	31.250		
7,900.00	7,390.00	7,429.62	7,357.18	28.17	18.42	-90.00	741.83	-1,952.91	1,389.69	1,344.47	45.22	30.734		
8,000.00	7,390.00	7,430.90	7,358.46	28.61	18.43	-90.06	741.85	-1,952.90	1,354.16	1,308.32	45.84	29.543		
8,100.00	7,390.00	7,432.18	7,359.75	29.16	18.43	-90.12	741.87	-1,952.90	1,325.24	1,278.66	46.58	28.448		
8,200.00	7,390.00	7,433.47	7,361.03	29.79	18.43	-90.18	741.88	-1,952.89	1,303.37	1,255.93	47.44	27.473		
8,300.00	7,390.00	7,434.76	7,362.32	30.50	18.43	-90.23	741.90	-1,952.88	1,288.91	1,240.52	48.39	26.638		
8,400.00	7,390.00	7,436.05	7,363.61	31.27	18.43	-90.29	741.91	-1,952.87	1,282.11	1,232.72	49.38	25.963		
8,437.48	7,390.00	7,436.53	7,364.09	31.58	18.43	-90.31	741.92	-1,952.87	1,281.56	1,231.79	49.77	25.750 CC, ES		
8,500.00	7,390.00	7,437.34	7,364.90	32.10	18.43	-90.35	741.93	-1,952.87	1,283.08	1,232.69	50.39	25.461		
8,600.00	7,390.00	7,438.63	7,366.19	32.98	18.44	-90.41	741.95	-1,952.86	1,291.82	1,240.44	51.38	25.144		
8,700.00	7,390.00	7,439.93	7,367.49	33.91	18.44	-90.46	741.96	-1,952.85	1,308.16	1,255.86	52.30	25.012 SF		
8,800.00	7,390.00	7,441.22	7,368.78	34.89	18.44	-90.52	741.98	-1,952.85	1,331.84	1,278.70	53.14	25.064		
8,900.00	7,390.00	7,442.52	7,370.08	35.91	18.44	-90.58	742.00	-1,952.84	1,362.45	1,308.58	53.87	25.292		
9,000.00	7,390.00	7,442.99	7,370.55	36.96	18.44	-90.60	742.00	-1,952.84	1,399.56	1,345.07	54.49	25.684		
9,100.00	7,390.00	7,442.99	7,370.55	38.06	18.44	-90.60	742.00	-1,952.84	1,442.65	1,387.65	55.00	26.230		
9,200.00	7,390.00	7,446.28	7,373.84	39.18	18.45	-90.75	742.05	-1,952.82	1,491.22	1,435.81	55.40	26.916		

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 4G-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 4G-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: 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	-89.98	0.02	-60.14	60.14				
100.00	100.00	100.00	100.00	0.14	0.14	-89.98	0.02	-60.14	60.14	59.87	0.28	217.889	
200.00	200.00	200.00	200.00	0.50	0.50	-89.98	0.02	-60.14	60.14	59.15	0.99	60.569 CC, ES	
300.00	300.00	297.99	297.97	0.85	0.84	-90.43	-0.46	-61.75	61.78	60.05	1.73	35.656	
400.00	400.00	395.75	395.60	1.21	1.19	-91.63	-1.89	-66.55	66.72	64.22	2.50	26.709	
500.00	500.00	493.06	492.55	1.57	1.54	-93.28	-4.27	-74.49	74.99	71.72	3.27	22.935	
600.00	600.00	589.69	588.49	1.93	1.91	-95.05	-7.55	-85.50	86.60	82.56	4.04	21.447	
700.00	700.00	685.44	683.12	2.29	2.29	-96.72	-11.71	-99.46	101.56	96.76	4.80	21.167	
800.00	800.00	780.11	776.15	2.65	2.70	-98.19	-16.72	-116.23	119.83	114.28	5.55	21.604	
900.00	899.98	873.84	867.64	2.99	3.13	33.67	-22.54	-135.73	139.93	133.67	6.26	22.355	
1,000.00	999.84	966.89	957.76	3.33	3.58	33.33	-29.16	-157.92	160.36	153.40	6.96	23.046	
1,100.00	1,099.45	1,059.25	1,046.43	3.67	4.07	33.48	-36.55	-182.70	181.09	173.44	7.65	23.664	
1,204.08	1,202.74	1,160.98	1,143.56	4.04	4.63	34.11	-45.19	-211.65	201.45	193.09	8.35	24.112	
1,300.00	1,297.71	1,255.25	1,233.58	4.39	5.17	35.03	-53.19	-238.48	218.84	209.82	9.03	24.241	
1,400.00	1,396.72	1,353.53	1,327.43	4.77	5.74	35.84	-61.54	-266.46	237.03	227.28	9.75	24.309	
1,500.00	1,495.72	1,451.82	1,421.28	5.15	6.32	36.54	-69.89	-294.43	255.25	244.76	10.49	24.338	
1,600.00	1,594.73	1,550.10	1,515.12	5.54	6.90	37.14	-78.23	-322.40	273.51	262.27	11.24	24.341	
1,700.00	1,693.74	1,648.38	1,608.97	5.93	7.48	37.67	-86.58	-350.38	291.79	279.79	12.00	24.325	
1,800.00	1,792.74	1,746.66	1,702.81	6.32	8.07	38.13	-94.93	-378.35	310.09	297.33	12.76	24.297	
1,900.00	1,891.75	1,844.94	1,796.66	6.72	8.66	38.55	-103.27	-406.32	328.41	314.88	13.54	24.262	
2,000.00	1,990.76	1,943.22	1,890.51	7.12	9.25	38.92	-111.62	-434.29	346.75	332.43	14.32	24.221	
2,100.00	2,089.76	2,041.50	1,984.35	7.52	9.84	39.25	-119.97	-462.27	365.10	350.00	15.10	24.177	
2,200.00	2,188.77	2,139.79	2,078.20	7.92	10.43	39.55	-128.31	-490.24	383.45	367.56	15.89	24.131	
2,300.00	2,287.78	2,238.07	2,172.04	8.33	11.03	39.83	-136.66	-518.21	401.82	385.14	16.68	24.085	
2,400.00	2,386.78	2,336.35	2,266.89	8.74	11.62	40.08	-145.00	-546.19	420.20	402.72	17.48	24.039	
2,500.00	2,485.79	2,434.63	2,359.74	9.14	12.22	40.31	-153.35	-574.16	438.58	420.30	18.28	23.994	
2,600.00	2,584.80	2,532.91	2,453.58	9.55	12.82	40.52	-161.70	-602.13	456.97	437.89	19.08	23.949	
2,700.00	2,683.81	2,631.19	2,547.43	9.96	13.41	40.71	-170.04	-630.10	475.37	455.48	19.88	23.906	
2,800.00	2,782.81	2,729.47	2,641.27	10.37	14.01	40.89	-178.39	-658.08	493.77	473.08	20.69	23.864	
2,900.00	2,881.82	2,827.75	2,735.12	10.78	14.61	41.06	-186.74	-686.05	512.17	490.67	21.50	23.824	
3,000.00	2,980.83	2,926.04	2,828.97	11.19	15.21	41.21	-195.08	-714.02	530.58	508.27	22.31	23.785	
3,100.00	3,079.83	3,024.32	2,922.81	11.60	15.81	41.36	-203.43	-742.00	548.99	525.87	23.12	23.747	
3,200.00	3,178.84	3,122.60	3,016.66	12.02	16.41	41.49	-211.77	-769.97	567.40	543.47	23.93	23.711	
3,300.00	3,277.85	3,220.88	3,110.50	12.43	17.01	41.62	-220.12	-797.94	585.82	561.08	24.74	23.676	
3,400.00	3,376.85	3,319.16	3,204.35	12.84	17.61	41.74	-228.47	-825.92	604.24	578.68	25.56	23.642	
3,500.00	3,475.86	3,417.44	3,298.20	13.25	18.21	41.85	-236.81	-853.89	622.66	596.29	26.37	23.610	
3,600.00	3,574.87	3,515.72	3,392.04	13.67	18.81	41.96	-245.16	-881.86	641.09	613.90	27.19	23.579	
3,700.00	3,673.87	3,614.01	3,485.89	14.08	19.41	42.06	-253.51	-909.83	659.52	631.51	28.01	23.549	
3,800.00	3,772.88	3,712.29	3,579.73	14.49	20.01	42.15	-261.85	-937.81	677.94	649.12	28.82	23.520	
3,900.00	3,871.89	3,810.57	3,673.58	14.91	20.61	42.24	-270.20	-965.78	696.37	666.73	29.64	23.493	
4,000.00	3,970.90	3,908.85	3,767.43	15.32	21.21	42.33	-278.55	-993.75	714.81	684.34	30.46	23.466	
4,100.00	4,069.90	4,007.13	3,861.27	15.74	21.81	42.41	-286.89	-1,021.73	733.24	701.96	31.28	23.440	
4,200.00	4,168.91	4,105.41	3,955.12	16.15	22.41	42.48	-295.24	-1,049.70	751.67	719.57	32.10	23.416	
4,300.00	4,267.92	4,203.69	4,048.96	16.57	23.01	42.56	-303.58	-1,077.67	770.11	737.19	32.92	23.392	
4,400.00	4,366.92	4,301.97	4,142.81	16.98	23.61	42.62	-311.93	-1,105.65	788.55	754.80	33.74	23.369	
4,500.00	4,465.93	4,400.26	4,236.66	17.40	24.22	42.69	-320.28	-1,133.62	806.98	772.42	34.56	23.347	
4,600.00	4,564.94	4,498.54	4,330.50	17.81	24.82	42.75	-328.62	-1,161.59	825.42	790.04	35.39	23.326	
4,700.00	4,663.94	4,596.82	4,424.35	18.23	25.42	42.81	-336.97	-1,189.56	843.86	807.65	36.21	23.306	
4,800.00	4,762.95	4,695.10	4,518.19	18.64	26.02	42.87	-345.32	-1,217.54	862.30	825.27	37.03	23.286	
4,900.00	4,861.96	4,793.38	4,612.04	19.06	26.62	42.93	-353.66	-1,245.51	880.75	842.89	37.85	23.267	
5,000.00	4,960.96	4,891.66	4,705.89	19.48	27.22	42.98	-362.01	-1,273.48	899.19	860.51	38.68	23.248	
5,100.00	5,059.97	4,989.94	4,799.73	19.89	27.83	43.03	-370.35	-1,301.46	917.63	878.13	39.50	23.230	

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 4G-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 4G-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: 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	
5,200.00	5,158.98	5,088.23	4,893.58	20.31	28.43	43.08	-378.70	-1,329.43	936.07	895.75	40.33	23.213		
5,300.00	5,257.99	5,186.51	4,987.42	20.72	29.03	43.13	-387.05	-1,357.40	954.52	913.37	41.15	23.196		
5,400.00	5,356.99	5,284.79	5,081.27	21.14	29.63	43.17	-395.39	-1,385.37	972.96	930.99	41.97	23.180		
5,500.00	5,456.00	5,383.07	5,175.12	21.56	30.23	43.22	-403.74	-1,413.35	991.41	948.61	42.80	23.165		
5,600.00	5,555.01	5,481.35	5,268.96	21.97	30.84	43.26	-412.09	-1,441.32	1,009.86	966.23	43.62	23.149		
5,700.00	5,654.01	5,579.63	5,362.81	22.39	31.44	43.30	-420.43	-1,469.29	1,028.30	983.85	44.45	23.135		
5,800.00	5,753.02	5,677.91	5,456.65	22.81	32.04	43.34	-428.78	-1,497.27	1,046.75	1,001.47	45.27	23.120		
5,900.00	5,852.03	5,776.19	5,550.50	23.22	32.64	43.38	-437.13	-1,525.24	1,065.20	1,019.10	46.10	23.106		
6,000.00	5,951.03	5,874.48	5,644.35	23.64	33.24	43.41	-445.47	-1,553.21	1,083.64	1,036.72	46.93	23.093		
6,100.00	6,050.04	5,972.76	5,738.19	24.06	33.85	43.45	-453.82	-1,581.19	1,102.09	1,054.34	47.75	23.080		
6,200.00	6,149.05	6,071.04	5,832.04	24.47	34.45	43.48	-462.16	-1,609.16	1,120.54	1,071.96	48.58	23.067		
6,300.00	6,248.05	6,169.32	5,925.88	24.89	35.05	43.52	-470.51	-1,637.13	1,138.99	1,089.59	49.40	23.055		
6,400.00	6,347.06	6,267.60	6,019.73	25.31	35.65	43.55	-478.86	-1,665.10	1,157.44	1,107.21	50.23	23.043		
6,500.00	6,446.07	6,365.88	6,113.58	25.72	36.26	43.58	-487.20	-1,693.08	1,175.89	1,124.83	51.06	23.031		
6,600.00	6,545.07	6,464.16	6,207.42	26.14	36.86	43.61	-495.55	-1,721.05	1,194.34	1,142.46	51.88	23.020		
6,665.43	6,609.86	6,528.47	6,268.83	26.41	37.25	43.63	-501.01	-1,739.35	1,206.41	1,153.99	52.42	23.012		
6,700.00	6,644.15	6,562.44	6,301.26	26.55	37.46	26.03	-503.90	-1,749.02	1,212.77	1,160.07	52.70	23.013		
6,750.00	6,693.86	6,611.44	6,348.06	26.74	37.76	-9.94	-508.06	-1,762.97	1,221.88	1,168.82	53.05	23.031		
6,800.00	6,743.50	6,660.08	6,394.50	26.90	38.06	-38.77	-512.19	-1,776.81	1,230.87	1,177.51	53.36	23.067		
6,850.00	6,792.82	6,708.11	6,440.36	27.05	38.35	-54.17	-516.27	-1,790.48	1,239.77	1,186.15	53.62	23.120		
6,900.00	6,841.57	6,755.30	6,485.42	27.19	38.64	-62.53	-520.27	-1,803.91	1,248.62	1,194.78	53.85	23.189		
6,950.00	6,889.53	6,801.42	6,529.46	27.31	38.93	-67.63	-524.19	-1,817.04	1,257.48	1,203.45	54.03	23.274		
7,000.00	6,936.45	6,846.24	6,572.26	27.41	39.20	-71.06	-528.00	-1,829.80	1,266.44	1,212.26	54.18	23.375		
7,050.00	6,982.12	6,889.56	6,613.62	27.51	39.47	-73.56	-531.68	-1,842.13	1,275.60	1,221.30	54.30	23.492		
7,100.00	7,026.30	6,931.15	6,653.33	27.59	39.72	-75.48	-535.21	-1,853.96	1,285.08	1,230.68	54.40	23.624		
7,150.00	7,068.78	6,970.81	6,691.21	27.66	39.96	-77.00	-538.58	-1,865.25	1,294.99	1,240.51	54.48	23.772		
7,200.00	7,109.36	7,008.36	6,727.06	27.71	40.19	-78.22	-541.76	-1,875.94	1,305.47	1,250.92	54.55	23.934		
7,250.00	7,147.83	7,043.60	6,760.71	27.76	40.41	-79.18	-544.76	-1,885.97	1,316.64	1,262.03	54.61	24.109		
7,300.00	7,184.01	7,076.37	6,792.00	27.79	40.61	-79.91	-547.54	-1,895.30	1,328.62	1,273.93	54.68	24.296		
7,350.00	7,217.73	7,106.51	6,820.78	27.82	40.80	-80.40	-550.10	-1,903.88	1,341.51	1,286.74	54.77	24.494		
7,400.00	7,248.81	7,133.86	6,846.90	27.83	40.96	-80.66	-552.42	-1,911.66	1,355.42	1,300.54	54.87	24.701		
7,450.00	7,277.12	7,158.30	6,870.24	27.84	41.11	-80.68	-554.50	-1,918.62	1,370.40	1,315.40	55.00	24.916		
7,500.00	7,302.50	7,179.71	6,890.68	27.85	41.24	-80.44	-556.32	-1,924.71	1,386.52	1,331.36	55.16	25.137		
7,550.00	7,324.84	7,197.98	6,908.12	27.84	41.36	-79.94	-557.87	-1,929.91	1,403.79	1,348.44	55.35	25.363		
7,600.00	7,344.02	7,213.03	6,922.49	27.84	41.45	-79.16	-559.15	-1,934.19	1,422.22	1,366.65	55.57	25.593		
7,650.00	7,359.96	7,224.77	6,933.71	27.84	41.52	-78.11	-560.14	-1,937.54	1,441.77	1,385.94	55.83	25.826		
7,700.00	7,372.58	7,233.16	6,941.72	27.84	41.57	-76.78	-560.86	-1,939.92	1,462.38	1,406.28	56.11	26.063		
7,750.00	7,381.81	8,300.33	7,610.00	27.86	43.80	-98.48	82.20	-2,129.31	1,480.36	1,424.14	56.22	26.333		
7,800.00	7,387.61	8,349.96	7,610.00	27.92	43.78	-98.50	131.83	-2,128.62	1,477.93	1,421.39	56.54	26.142		
7,850.00	7,389.95	8,399.88	7,610.00	28.02	43.77	-98.56	181.74	-2,127.92	1,476.38	1,419.55	56.82	25.982		
7,858.73	7,390.00	8,408.60	7,610.00	28.04	43.77	-98.57	190.47	-2,127.80	1,476.20	1,419.32	56.88	25.954		
7,900.00	7,390.00	8,449.87	7,610.00	28.17	43.77	-98.58	231.73	-2,127.22	1,475.41	1,418.27	57.14	25.822		
8,000.00	7,390.00	8,549.85	7,610.00	28.61	43.79	-98.59	331.70	-2,125.83	1,473.49	1,415.64	57.85	25.469		
8,100.00	7,390.00	8,649.83	7,610.00	29.16	43.85	-98.60	431.67	-2,124.43	1,471.58	1,412.85	58.73	25.056		
8,200.00	7,390.00	8,749.81	7,610.00	29.79	43.95	-98.61	531.64	-2,123.04	1,469.67	1,409.91	59.76	24.593		
8,300.00	7,390.00	8,849.79	7,610.00	30.50	44.09	-98.62	631.61	-2,121.64	1,467.75	1,406.82	60.93	24.088		
8,400.00	7,390.00	8,949.78	7,610.00	31.27	44.28	-98.63	731.59	-2,120.24	1,465.84	1,403.60	62.24	23.551		
8,500.00	7,390.00	9,049.76	7,610.00	32.10	44.53	-98.64	831.56	-2,118.85	1,463.92	1,400.25	63.68	22.991		
8,600.00	7,390.00	9,149.74	7,610.00	32.98	44.82	-98.66	931.53	-2,117.45	1,462.01	1,396.78	65.23	22.414		
8,700.00	7,390.00	9,249.72	7,610.00	33.91	45.18	-98.67	1,031.50	-2,116.06	1,460.10	1,393.21	66.89	21.828		
8,800.00	7,390.00	9,349.70	7,610.00	34.89	45.60	-98.68	1,131.47	-2,114.66	1,458.18	1,389.53	68.66	21.239		
8,900.00	7,390.00	9,449.68	7,610.00	35.91	46.08	-98.69	1,231.44	-2,113.26	1,456.27	1,385.76	70.52	20.652		

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 4G-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 4G-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: 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	
9,000.00	7,390.00	9,549.66	7,610.00	36.96	46.62	-98.70	1,331.41	-2,111.87	1,454.36	1,381.90	72.46	20.070		
9,100.00	7,390.00	9,649.64	7,610.00	38.06	47.23	-98.71	1,431.39	-2,110.47	1,452.44	1,377.95	74.49	19.499		
9,200.00	7,390.00	9,749.63	7,610.00	39.18	47.91	-98.73	1,531.36	-2,109.08	1,450.53	1,373.94	76.59	18.939		
9,300.00	7,390.00	9,849.61	7,610.00	40.34	48.64	-98.74	1,631.33	-2,107.68	1,448.62	1,369.86	78.76	18.393		
9,400.00	7,390.00	9,949.59	7,610.00	41.52	49.42	-98.75	1,731.30	-2,106.28	1,446.71	1,365.71	80.99	17.862		
9,500.00	7,390.00	10,049.57	7,610.00	42.73	50.26	-98.76	1,831.27	-2,104.89	1,444.79	1,361.51	83.28	17.348		
9,600.00	7,390.00	10,149.55	7,610.00	43.96	51.15	-98.77	1,931.24	-2,103.49	1,442.88	1,357.26	85.62	16.851		
9,700.00	7,390.00	10,249.53	7,610.00	45.22	52.09	-98.78	2,031.22	-2,102.10	1,440.97	1,352.95	88.02	16.372		
9,800.00	7,390.00	10,349.51	7,610.00	46.49	53.06	-98.80	2,131.19	-2,100.70	1,439.05	1,348.60	90.45	15.910		
9,900.00	7,390.00	10,449.49	7,610.00	47.79	54.08	-98.81	2,231.16	-2,099.31	1,437.14	1,344.21	92.93	15.465		
10,000.00	7,390.00	10,549.48	7,610.00	49.10	55.12	-98.82	2,331.13	-2,097.91	1,435.23	1,339.78	95.44	15.037		
10,100.00	7,390.00	10,649.46	7,610.00	50.42	56.20	-98.83	2,431.10	-2,096.51	1,433.32	1,335.32	97.99	14.626		
10,200.00	7,390.00	10,749.44	7,610.00	51.76	57.31	-98.84	2,531.07	-2,095.12	1,431.40	1,330.83	100.58	14.232		
10,300.00	7,390.00	10,849.42	7,610.00	53.11	58.45	-98.85	2,631.04	-2,093.72	1,429.49	1,326.30	103.19	13.853		
10,400.00	7,390.00	10,949.40	7,610.00	54.48	59.60	-98.87	2,731.02	-2,092.33	1,427.58	1,321.75	105.83	13.489		
10,500.00	7,390.00	11,049.38	7,610.00	55.86	60.79	-98.88	2,830.99	-2,090.93	1,425.67	1,317.17	108.50	13.140		
10,600.00	7,390.00	11,149.36	7,610.00	57.24	61.99	-98.89	2,930.96	-2,089.53	1,423.75	1,312.56	111.19	12.805		
10,700.00	7,390.00	11,249.34	7,610.00	58.64	63.21	-98.90	3,030.93	-2,088.14	1,421.84	1,307.94	113.90	12.483		
10,800.00	7,390.00	11,349.33	7,610.00	60.05	64.45	-98.91	3,130.90	-2,086.74	1,419.93	1,303.29	116.63	12.174		
10,900.00	7,390.00	11,449.31	7,610.00	61.47	65.70	-98.93	3,230.87	-2,085.35	1,418.02	1,298.63	119.39	11.877		
11,000.00	7,390.00	11,549.29	7,610.00	62.89	66.97	-98.94	3,330.85	-2,083.95	1,416.11	1,293.95	122.16	11.592		
11,100.00	7,390.00	11,649.27	7,610.00	64.32	68.25	-98.95	3,430.82	-2,082.55	1,414.19	1,289.25	124.94	11.319		
11,200.00	7,390.00	11,749.25	7,610.00	65.76	69.55	-98.96	3,530.79	-2,081.16	1,412.28	1,284.53	127.75	11.055		
11,300.00	7,390.00	11,849.23	7,610.00	67.20	70.86	-98.98	3,630.76	-2,079.76	1,410.37	1,279.80	130.56	10.802		
11,400.00	7,390.00	11,949.21	7,610.00	68.66	72.18	-98.99	3,730.73	-2,078.37	1,408.46	1,275.06	133.40	10.559		
11,500.00	7,390.00	12,049.19	7,610.00	70.11	73.51	-99.00	3,830.70	-2,076.97	1,406.55	1,270.31	136.24	10.324		
11,600.00	7,390.00	12,149.18	7,610.00	71.58	74.85	-99.01	3,930.67	-2,075.57	1,404.63	1,265.54	139.09	10.098		
11,700.00	7,390.00	12,249.16	7,610.00	73.04	76.20	-99.03	4,030.65	-2,074.18	1,402.72	1,260.76	141.96	9.881		
11,800.00	7,390.00	12,349.14	7,610.00	74.52	77.56	-99.04	4,130.62	-2,072.78	1,400.81	1,255.97	144.84	9.672		
11,900.00	7,390.00	12,449.12	7,610.00	75.99	78.93	-99.05	4,230.59	-2,071.39	1,398.90	1,251.17	147.73	9.470		
12,000.00	7,390.00	12,549.10	7,610.00	77.47	80.30	-99.06	4,330.56	-2,069.99	1,396.99	1,246.37	150.62	9.275		
12,100.00	7,390.00	12,649.08	7,610.00	78.96	81.69	-99.07	4,430.53	-2,068.59	1,395.08	1,241.55	153.53	9.087		
12,200.00	7,390.00	12,749.06	7,610.00	80.45	83.08	-99.09	4,530.50	-2,067.20	1,393.17	1,236.72	156.44	8.905		
12,300.00	7,390.00	12,849.04	7,610.00	81.94	84.47	-99.10	4,630.47	-2,065.80	1,391.25	1,231.89	159.36	8.730		
12,400.00	7,390.00	12,949.03	7,610.00	83.44	85.88	-99.11	4,730.45	-2,064.41	1,389.34	1,227.05	162.29	8.561		
12,500.00	7,390.00	13,049.01	7,610.00	84.94	87.29	-99.13	4,830.42	-2,063.01	1,387.43	1,222.20	165.23	8.397		
12,600.00	7,390.00	13,148.99	7,610.00	86.44	88.70	-99.14	4,930.39	-2,061.61	1,385.52	1,217.35	168.17	8.239		
12,700.00	7,390.00	13,248.97	7,610.00	87.95	90.12	-99.15	5,030.36	-2,060.22	1,383.61	1,212.49	171.12	8.086		
12,800.00	7,390.00	13,348.95	7,610.00	89.46	91.55	-99.16	5,130.33	-2,058.82	1,381.70	1,207.63	174.07	7.937		
12,900.00	7,390.00	13,448.93	7,610.00	90.97	92.98	-99.18	5,230.30	-2,057.43	1,379.79	1,202.75	177.03	7.794		
13,000.00	7,390.00	13,548.91	7,610.00	92.48	94.41	-99.19	5,330.28	-2,056.03	1,377.88	1,197.88	180.00	7.655		
13,100.00	7,390.00	13,648.89	7,610.00	94.00	95.85	-99.20	5,430.25	-2,054.63	1,375.97	1,193.00	182.97	7.520		
13,200.00	7,390.00	13,748.88	7,610.00	95.52	97.29	-99.21	5,530.22	-2,053.24	1,374.06	1,188.11	185.95	7.390		
13,300.00	7,390.00	13,848.86	7,610.00	97.04	98.74	-99.23	5,630.19	-2,051.84	1,372.15	1,183.22	188.93	7.263		
13,400.00	7,390.00	13,948.84	7,610.00	98.56	100.19	-99.24	5,730.16	-2,050.45	1,370.24	1,178.32	191.91	7.140		
13,500.00	7,390.00	14,048.82	7,610.00	100.08	101.65	-99.25	5,830.13	-2,049.05	1,368.33	1,173.43	194.90	7.021		
13,600.00	7,390.00	14,148.80	7,610.00	101.61	103.11	-99.27	5,930.10	-2,047.65	1,366.42	1,168.52	197.89	6.905		
13,700.00	7,390.00	14,248.78	7,610.00	103.14	104.57	-99.28	6,030.08	-2,046.26	1,364.51	1,163.62	200.89	6.792		
13,748.73	7,390.00	14,297.50	7,610.00	103.89	105.28	-99.29	6,078.79	-2,045.58	1,363.57	1,161.22	202.35	6.739		
13,800.00	7,390.00	14,338.21	7,610.00	104.67	105.88	-99.30	6,119.50	-2,045.05	1,362.22	1,158.27	203.95	6.679		
13,821.47	7,390.00	14,348.38	7,610.00	105.01	106.03	-99.30	6,129.67	-2,045.03	1,361.61	1,156.97	204.64	6.654		
13,900.00	7,390.00	14,414.65	7,610.00	106.23	107.02	-99.31	6,195.94	-2,045.73	1,360.00	1,152.94	207.06	6.568		

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 4G-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 4G-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							Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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						
14,000.00	7,390.00	14,514.63	7,610.00	107.78	108.51	-99.32	6,295.91	-2,046.87	1,358.08	1,147.98	210.10	6.464						
14,100.00	7,390.00	14,614.62	7,610.00	109.34	110.01	-99.34	6,395.88	-2,048.01	1,356.17	1,143.03	213.15	6.363						
14,200.00	7,390.00	14,714.60	7,610.00	110.89	111.51	-99.35	6,495.86	-2,049.15	1,354.26	1,138.06	216.19	6.264						
14,300.00	7,390.00	14,814.58	7,610.00	112.45	113.01	-99.36	6,595.83	-2,050.29	1,352.34	1,133.10	219.25	6.168						
14,400.00	7,390.00	14,914.56	7,610.00	114.01	114.52	-99.38	6,695.81	-2,051.43	1,350.43	1,128.13	222.30	6.075						
14,500.00	7,390.00	15,014.54	7,610.00	115.57	116.03	-99.39	6,795.78	-2,052.57	1,348.52	1,123.16	225.36	5.984						
14,600.00	7,390.00	15,114.52	7,610.00	117.14	117.54	-99.40	6,895.76	-2,053.70	1,346.60	1,118.19	228.42	5.895						
14,625.12	7,390.00	15,139.64	7,610.00	117.53	117.92	-99.41	6,920.87	-2,053.99	1,346.12	1,116.94	229.19	5.874 SF						

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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: 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	-89.92	0.07	-50.07	50.07					
100.00	100.00	100.00	100.00	0.14	0.14	-89.92	0.07	-50.07	50.07	49.80	0.28	181.407		
200.00	200.00	200.00	200.00	0.50	0.50	-89.92	0.07	-50.07	50.07	49.08	0.99	50.427		
300.00	300.00	300.00	300.00	0.85	0.85	-89.92	0.07	-50.07	50.07	48.36	1.71	29.284	CC, ES	
400.00	400.00	398.29	398.27	1.21	1.20	-90.35	-0.32	-51.71	51.74	49.30	2.44	21.222		
500.00	500.00	496.35	496.20	1.57	1.54	-91.51	-1.50	-56.61	56.76	53.57	3.19	17.808		
600.00	600.00	593.95	593.44	1.93	1.89	-93.05	-3.44	-64.72	65.15	61.20	3.94	16.515		
700.00	700.00	690.87	689.66	2.29	2.26	-94.62	-6.14	-75.96	76.91	72.21	4.70	16.362		
800.00	800.00	786.90	784.56	2.65	2.64	-96.05	-9.56	-90.21	92.02	86.57	5.45	16.890		
900.00	899.98	882.12	878.12	2.99	3.04	36.00	-13.69	-107.38	109.05	102.88	6.17	17.674		
1,000.00	999.84	976.71	970.44	3.33	3.46	36.03	-18.50	-127.43	126.55	119.69	6.86	18.435		
1,100.00	1,099.45	1,070.66	1,061.40	3.67	3.92	36.64	-23.98	-150.26	144.51	136.94	7.56	19.102		
1,204.08	1,202.74	1,168.43	1,155.20	4.04	4.42	37.68	-30.42	-177.06	163.67	155.38	8.29	19.744		
1,300.00	1,297.71	1,262.66	1,245.26	4.39	4.94	38.93	-36.89	-204.00	181.26	172.30	8.96	20.233		
1,400.00	1,396.72	1,360.89	1,339.14	4.77	5.49	40.01	-43.63	-232.09	199.66	189.98	9.68	20.629		
1,500.00	1,495.72	1,459.11	1,433.03	5.15	6.05	40.90	-50.38	-260.18	218.12	207.71	10.41	20.944		
1,600.00	1,594.73	1,557.34	1,526.91	5.54	6.61	41.66	-57.12	-288.27	236.63	225.46	11.16	21.195		
1,700.00	1,693.74	1,655.57	1,620.80	5.93	7.19	42.30	-63.87	-316.37	255.16	243.24	11.92	21.398		
1,800.00	1,792.74	1,753.80	1,714.68	6.32	7.76	42.86	-70.61	-344.46	273.73	261.04	12.69	21.563		
1,900.00	1,891.75	1,852.03	1,808.57	6.72	8.34	43.35	-77.35	-372.55	292.32	278.84	13.47	21.698		
2,000.00	1,990.76	1,950.26	1,902.45	7.12	8.92	43.78	-84.10	-400.64	310.92	296.67	14.26	21.810		
2,100.00	2,089.76	2,048.49	1,996.34	7.52	9.51	44.16	-90.84	-428.73	329.54	314.50	15.05	21.904		
2,200.00	2,188.77	2,146.72	2,090.22	7.92	10.10	44.50	-97.59	-456.82	348.17	332.33	15.84	21.982		
2,300.00	2,287.78	2,244.95	2,184.11	8.33	10.68	44.80	-104.33	-484.91	366.82	350.18	16.64	22.047		
2,400.00	2,386.78	2,343.18	2,277.99	8.74	11.27	45.08	-111.08	-513.00	385.47	368.03	17.44	22.103		
2,500.00	2,485.79	2,441.40	2,371.88	9.14	11.86	45.33	-117.82	-541.09	404.13	385.88	18.24	22.151		
2,600.00	2,584.80	2,539.63	2,465.76	9.55	12.45	45.56	-124.57	-569.18	422.80	403.74	19.05	22.191		
2,700.00	2,683.81	2,637.86	2,559.65	9.96	13.04	45.77	-131.31	-597.27	441.47	421.61	19.86	22.226		
2,800.00	2,782.81	2,736.09	2,653.53	10.37	13.64	45.96	-138.06	-625.36	460.15	439.47	20.67	22.257		
2,900.00	2,881.82	2,834.32	2,747.42	10.78	14.23	46.14	-144.80	-653.45	478.83	457.34	21.49	22.283		
3,000.00	2,980.83	2,932.55	2,841.30	11.19	14.82	46.30	-151.55	-681.54	497.52	475.21	22.30	22.305		
3,100.00	3,079.83	3,030.78	2,935.19	11.60	15.42	46.45	-158.29	-709.63	516.21	493.08	23.12	22.325		
3,200.00	3,178.84	3,129.01	3,029.07	12.02	16.01	46.59	-165.04	-737.72	534.90	510.96	23.94	22.343		
3,300.00	3,277.85	3,227.24	3,122.96	12.43	16.61	46.72	-171.78	-765.81	553.60	528.83	24.76	22.358		
3,400.00	3,376.85	3,325.47	3,216.84	12.84	17.20	46.85	-178.53	-793.91	572.29	546.71	25.58	22.371		
3,500.00	3,475.86	3,423.69	3,310.73	13.25	17.80	46.96	-185.27	-822.00	591.00	564.59	26.40	22.383		
3,600.00	3,574.87	3,521.92	3,404.61	13.67	18.39	47.07	-192.02	-850.09	609.70	582.47	27.23	22.393		
3,700.00	3,673.87	3,620.15	3,498.50	14.08	18.99	47.17	-198.76	-878.18	628.40	600.35	28.05	22.402		
3,800.00	3,772.88	3,718.38	3,592.38	14.49	19.59	47.27	-205.50	-906.27	647.11	618.24	28.88	22.411		
3,900.00	3,871.89	3,816.61	3,686.26	14.91	20.18	47.36	-212.25	-934.36	665.82	636.12	29.70	22.418		
4,000.00	3,970.90	3,914.84	3,780.15	15.32	20.78	47.44	-218.99	-962.45	684.53	654.00	30.53	22.424		
4,100.00	4,069.90	4,013.07	3,874.03	15.74	21.38	47.52	-225.74	-990.54	703.24	671.89	31.35	22.430		
4,200.00	4,168.91	4,111.30	3,967.92	16.15	21.97	47.60	-232.48	-1,018.63	721.96	689.78	32.18	22.435		
4,300.00	4,267.92	4,209.53	4,061.80	16.57	22.57	47.67	-239.23	-1,046.72	740.67	707.66	33.01	22.439		
4,400.00	4,366.92	4,307.76	4,155.69	16.98	23.17	47.74	-245.97	-1,074.81	759.39	725.55	33.84	22.443		
4,500.00	4,465.93	4,405.98	4,249.57	17.40	23.77	47.81	-252.72	-1,102.90	778.10	743.44	34.67	22.446		
4,600.00	4,564.94	4,504.21	4,343.46	17.81	24.36	47.87	-259.46	-1,130.99	796.82	761.33	35.49	22.449		
4,700.00	4,663.94	4,602.44	4,437.34	18.23	24.96	47.93	-266.21	-1,159.08	815.54	779.21	36.32	22.452		
4,800.00	4,762.95	4,700.67	4,531.23	18.64	25.56	47.99	-272.95	-1,187.17	834.26	797.10	37.15	22.454		
4,900.00	4,861.96	4,798.90	4,625.11	19.06	26.16	48.04	-279.70	-1,215.26	852.98	814.99	37.98	22.456		
5,000.00	4,960.96	4,897.13	4,719.00	19.48	26.75	48.10	-286.44	-1,243.35	871.70	832.88	38.81	22.458		
5,100.00	5,059.97	4,995.36	4,812.88	19.89	27.35	48.15	-293.19	-1,271.45	890.42	850.77	39.64	22.460		

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 4G-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 4G-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: 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	
5,200.00	5,158.98	5,093.59	4,906.77	20.31	27.95	48.20	-299.93	-1,299.54	909.14	868.66	40.48	22.461		
5,300.00	5,257.99	5,191.82	5,000.65	20.72	28.55	48.24	-306.68	-1,327.63	927.86	886.56	41.31	22.462		
5,400.00	5,356.99	5,290.05	5,094.54	21.14	29.15	48.29	-313.42	-1,355.72	946.59	904.45	42.14	22.463		
5,500.00	5,456.00	5,388.27	5,188.42	21.56	29.74	48.33	-320.17	-1,383.81	965.31	922.34	42.97	22.464		
5,600.00	5,555.01	5,486.50	5,282.31	21.97	30.34	48.37	-326.91	-1,411.90	984.03	940.23	43.80	22.465		
5,700.00	5,654.01	5,584.73	5,376.19	22.39	30.94	48.41	-333.65	-1,439.99	1,002.76	958.12	44.64	22.466		
5,800.00	5,753.02	5,682.96	5,470.08	22.81	31.54	48.45	-340.40	-1,468.08	1,021.48	976.02	45.47	22.466		
5,900.00	5,852.03	5,781.19	5,563.96	23.22	32.14	48.48	-347.14	-1,496.17	1,040.21	993.91	46.30	22.466		
6,000.00	5,951.03	5,879.42	5,657.85	23.64	32.74	48.52	-353.89	-1,524.26	1,058.93	1,011.80	47.13	22.467		
6,100.00	6,050.04	5,977.65	5,751.73	24.06	33.34	48.55	-360.63	-1,552.35	1,077.66	1,029.69	47.97	22.467		
6,200.00	6,149.05	6,075.88	5,845.62	24.47	33.93	48.59	-367.38	-1,580.44	1,096.39	1,047.59	48.80	22.467		
6,300.00	6,248.05	6,174.11	5,939.50	24.89	34.53	48.62	-374.12	-1,608.53	1,115.11	1,065.48	49.63	22.467		
6,400.00	6,347.06	6,272.34	6,033.39	25.31	35.13	48.65	-380.87	-1,636.62	1,133.84	1,083.37	50.47	22.467		
6,500.00	6,446.07	6,370.56	6,127.27	25.72	35.73	48.68	-387.61	-1,664.71	1,152.57	1,101.27	51.30	22.467		
6,600.00	6,545.07	6,468.79	6,221.16	26.14	36.33	48.71	-394.36	-1,692.80	1,171.30	1,119.16	52.13	22.467		
6,665.43	6,609.86	6,533.07	6,282.59	26.41	36.72	48.73	-398.77	-1,711.18	1,183.55	1,130.87	52.68	22.467		
6,700.00	6,644.15	6,567.03	6,315.05	26.55	36.93	31.12	-401.10	-1,720.90	1,189.93	1,136.97	52.96	22.470		
6,750.00	6,693.86	6,616.08	6,361.93	26.74	37.23	-4.87	-404.47	-1,734.92	1,198.82	1,145.50	53.31	22.486		
6,800.00	6,743.50	6,664.81	6,408.50	26.90	37.52	-33.76	-407.82	-1,748.86	1,207.29	1,153.67	53.62	22.515		
6,850.00	6,792.82	6,712.99	6,454.56	27.05	37.82	-49.24	-411.13	-1,762.64	1,215.36	1,161.48	53.88	22.557		
6,900.00	6,841.57	6,760.39	6,499.86	27.19	38.11	-57.71	-414.38	-1,776.19	1,223.09	1,168.99	54.10	22.609		
6,950.00	6,889.53	6,806.78	6,544.19	27.31	38.39	-62.93	-417.56	-1,789.46	1,230.54	1,176.27	54.27	22.673		
7,000.00	6,936.45	6,851.92	6,587.34	27.41	38.66	-66.53	-420.66	-1,802.37	1,237.82	1,183.40	54.41	22.748		
7,050.00	6,982.12	6,895.61	6,629.09	27.51	38.93	-69.21	-423.66	-1,814.86	1,245.03	1,190.51	54.52	22.836		
7,100.00	7,026.30	6,937.61	6,669.24	27.59	39.19	-71.34	-426.55	-1,826.87	1,252.30	1,197.70	54.60	22.935		
7,150.00	7,068.78	6,977.75	6,707.60	27.66	39.43	-73.09	-429.30	-1,838.35	1,259.79	1,205.13	54.66	23.048		
7,200.00	7,109.36	7,016.36	6,744.51	27.71	39.67	-74.58	-431.90	-1,849.39	1,267.63	1,212.92	54.71	23.170		
7,250.00	7,147.83	7,057.53	6,783.93	27.76	39.91	-75.93	-432.86	-1,861.17	1,275.87	1,221.07	54.80	23.283		
7,300.00	7,184.01	7,101.09	6,825.63	27.79	40.16	-77.17	-430.98	-1,873.61	1,284.47	1,229.54	54.93	23.384		
7,350.00	7,217.73	7,147.54	6,869.86	27.82	40.41	-78.32	-425.71	-1,886.76	1,293.39	1,238.29	55.11	23.471		
7,400.00	7,248.81	7,197.49	6,916.87	27.83	40.66	-79.45	-416.30	-1,900.72	1,302.56	1,247.23	55.33	23.541		
7,450.00	7,277.12	7,251.69	6,966.93	27.84	40.90	-80.57	-401.77	-1,915.54	1,311.88	1,256.28	55.60	23.594		
7,500.00	7,302.50	7,311.09	7,020.21	27.85	41.14	-81.71	-380.82	-1,931.26	1,321.25	1,265.35	55.90	23.634		
7,550.00	7,324.84	7,376.81	7,076.72	27.84	41.38	-82.90	-351.72	-1,947.88	1,330.50	1,274.28	56.23	23.663		
7,600.00	7,344.02	7,450.20	7,136.06	27.84	41.60	-84.14	-312.26	-1,965.25	1,339.44	1,282.89	56.55	23.686		
7,650.00	7,359.96	7,532.73	7,197.10	27.84	41.80	-85.44	-259.73	-1,983.02	1,347.81	1,290.96	56.85	23.708		
7,700.00	7,372.58	7,625.79	7,257.48	27.84	41.98	-86.75	-191.21	-2,000.45	1,355.27	1,298.15	57.12	23.727		
7,750.00	7,381.81	7,730.30	7,313.10	27.86	42.11	-88.00	-104.31	-2,016.30	1,361.43	1,304.07	57.36	23.736		
7,800.00	7,387.61	7,845.99	7,357.91	27.92	42.20	-89.07	1.46	-2,028.76	1,365.85	1,308.25	57.60	23.712		
7,850.00	7,389.95	7,970.74	7,384.86	28.02	42.25	-89.80	122.85	-2,035.75	1,368.12	1,310.18	57.93	23.615		
7,858.73	7,390.00	7,993.14	7,387.27	28.04	42.26	-89.89	145.12	-2,036.27	1,368.27	1,310.27	58.00	23.591		
7,900.00	7,390.00	8,071.41	7,390.00	28.17	42.28	-90.00	223.30	-2,036.40	1,368.00	1,309.66	58.34	23.449		
8,000.00	7,390.00	8,171.40	7,390.00	28.61	42.32	-90.00	323.28	-2,035.53	1,366.59	1,307.48	59.11	23.120		
8,100.00	7,390.00	8,271.39	7,390.00	29.16	42.41	-90.00	423.27	-2,034.66	1,365.18	1,305.15	60.03	22.743		
8,200.00	7,390.00	8,371.38	7,390.00	29.79	42.54	-90.00	523.25	-2,033.78	1,363.76	1,302.67	61.09	22.322		
8,300.00	7,390.00	8,471.37	7,390.00	30.50	42.71	-90.00	623.24	-2,032.91	1,362.35	1,300.05	62.31	21.866		
8,400.00	7,390.00	8,571.36	7,390.00	31.27	42.94	-90.00	723.23	-2,032.04	1,360.94	1,297.29	63.65	21.381		
8,500.00	7,390.00	8,671.35	7,390.00	32.10	43.21	-90.00	823.21	-2,031.17	1,359.53	1,294.41	65.12	20.877		
8,600.00	7,390.00	8,771.34	7,390.00	32.98	43.54	-90.00	923.20	-2,030.29	1,358.12	1,291.41	66.71	20.359		
8,700.00	7,390.00	8,871.33	7,390.00	33.91	43.93	-90.00	1,023.19	-2,029.42	1,356.70	1,288.30	68.41	19.833		
8,800.00	7,390.00	8,971.32	7,390.00	34.89	44.38	-90.00	1,123.17	-2,028.55	1,355.29	1,285.09	70.21	19.305		
8,900.00	7,390.00	9,071.31	7,390.00	35.91	44.88	-90.00	1,223.16	-2,027.68	1,353.88	1,281.78	72.10	18.778		

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 4G-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 4G-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	
9,000.00	7,390.00	9,171.30	7,390.00	36.96	45.45	-90.00	1,323.14	-2,026.80	1,352.47	1,278.39	74.08	18.258		
9,100.00	7,390.00	9,271.29	7,390.00	38.06	46.08	-90.00	1,423.13	-2,025.93	1,351.06	1,274.92	76.14	17.745		
9,200.00	7,390.00	9,371.28	7,390.00	39.18	46.77	-90.00	1,523.12	-2,025.06	1,349.64	1,271.38	78.27	17.244		
9,300.00	7,390.00	9,471.27	7,390.00	40.34	47.52	-90.00	1,623.10	-2,024.19	1,348.23	1,267.76	80.47	16.755		
9,400.00	7,390.00	9,571.26	7,390.00	41.52	48.32	-90.00	1,723.09	-2,023.31	1,346.82	1,264.09	82.73	16.279		
9,500.00	7,390.00	9,671.25	7,390.00	42.73	49.17	-90.00	1,823.08	-2,022.44	1,345.41	1,260.36	85.05	15.819		
9,600.00	7,390.00	9,771.24	7,390.00	43.96	50.07	-90.00	1,923.06	-2,021.57	1,344.00	1,256.57	87.43	15.373		
9,700.00	7,390.00	9,871.23	7,390.00	45.22	51.01	-90.00	2,023.05	-2,020.70	1,342.58	1,252.74	89.85	14.943		
9,800.00	7,390.00	9,971.22	7,390.00	46.49	51.99	-90.00	2,123.03	-2,019.82	1,341.17	1,248.86	92.31	14.528		
9,900.00	7,390.00	10,071.21	7,390.00	47.79	53.01	-90.00	2,223.02	-2,018.95	1,339.76	1,244.94	94.82	14.129		
10,000.00	7,390.00	10,171.20	7,390.00	49.10	54.06	-90.00	2,323.01	-2,018.08	1,338.35	1,240.98	97.37	13.745		
10,100.00	7,390.00	10,271.19	7,390.00	50.42	55.15	-90.00	2,422.99	-2,017.21	1,336.94	1,236.99	99.95	13.376		
10,200.00	7,390.00	10,371.18	7,390.00	51.76	56.26	-90.00	2,522.98	-2,016.33	1,335.52	1,232.96	102.56	13.021		
10,300.00	7,390.00	10,471.17	7,390.00	53.11	57.40	-90.00	2,622.97	-2,015.46	1,334.11	1,228.90	105.21	12.681		
10,400.00	7,390.00	10,571.16	7,390.00	54.48	58.56	-90.00	2,722.95	-2,014.59	1,332.70	1,224.82	107.88	12.353		
10,500.00	7,390.00	10,671.15	7,390.00	55.86	59.75	-90.00	2,822.94	-2,013.72	1,331.29	1,220.71	110.58	12.039		
10,600.00	7,390.00	10,771.14	7,390.00	57.24	60.95	-90.00	2,922.92	-2,012.84	1,329.88	1,216.58	113.30	11.738		
10,700.00	7,390.00	10,871.13	7,390.00	58.64	62.18	-90.00	3,022.91	-2,011.97	1,328.46	1,212.42	116.05	11.448		
10,800.00	7,390.00	10,971.12	7,390.00	60.05	63.42	-90.00	3,122.90	-2,011.10	1,327.05	1,208.24	118.81	11.169		
10,900.00	7,390.00	11,071.11	7,390.00	61.47	64.68	-90.00	3,222.88	-2,010.22	1,325.64	1,204.04	121.60	10.902		
11,000.00	7,390.00	11,171.10	7,390.00	62.89	65.96	-90.00	3,322.87	-2,009.35	1,324.23	1,199.83	124.40	10.645		
11,100.00	7,390.00	11,271.09	7,390.00	64.32	67.25	-90.00	3,422.86	-2,008.48	1,322.82	1,195.60	127.22	10.398		
11,200.00	7,390.00	11,371.08	7,390.00	65.76	68.55	-90.00	3,522.84	-2,007.61	1,321.40	1,191.35	130.06	10.160		
11,300.00	7,390.00	11,471.07	7,390.00	67.20	69.87	-90.00	3,622.83	-2,006.73	1,319.99	1,187.09	132.91	9.932		
11,400.00	7,390.00	11,571.06	7,390.00	68.66	71.19	-90.00	3,722.81	-2,005.86	1,318.58	1,182.81	135.77	9.712		
11,500.00	7,390.00	11,671.05	7,390.00	70.11	72.53	-90.00	3,822.80	-2,004.99	1,317.17	1,178.52	138.65	9.500		
11,600.00	7,390.00	11,771.04	7,390.00	71.58	73.88	-90.00	3,922.79	-2,004.12	1,315.76	1,174.22	141.54	9.296		
11,700.00	7,390.00	11,871.03	7,390.00	73.04	75.24	-90.00	4,022.77	-2,003.24	1,314.34	1,169.91	144.44	9.100		
11,800.00	7,390.00	11,971.02	7,390.00	74.52	76.60	-90.00	4,122.76	-2,002.37	1,312.93	1,165.58	147.35	8.910		
11,900.00	7,390.00	12,071.01	7,390.00	75.99	77.98	-90.00	4,222.75	-2,001.50	1,311.52	1,161.25	150.27	8.728		
12,000.00	7,390.00	12,171.00	7,390.00	77.47	79.36	-90.00	4,322.73	-2,000.63	1,310.11	1,156.90	153.21	8.551		
12,100.00	7,390.00	12,270.99	7,390.00	78.96	80.75	-90.00	4,422.72	-1,999.75	1,308.70	1,152.55	156.15	8.381		
12,200.00	7,390.00	12,370.98	7,390.00	80.45	82.15	-90.00	4,522.70	-1,998.88	1,307.28	1,148.19	159.10	8.217		
12,300.00	7,390.00	12,470.97	7,390.00	81.94	83.55	-90.00	4,622.69	-1,998.01	1,305.87	1,143.82	162.05	8.058		
12,400.00	7,390.00	12,570.96	7,390.00	83.44	84.96	-90.00	4,722.68	-1,997.14	1,304.46	1,139.44	165.02	7.905		
12,500.00	7,390.00	12,670.95	7,390.00	84.94	86.38	-90.00	4,822.66	-1,996.26	1,303.05	1,135.06	167.99	7.757		
12,600.00	7,390.00	12,770.94	7,390.00	86.44	87.80	-90.00	4,922.65	-1,995.39	1,301.64	1,130.67	170.97	7.613		
12,700.00	7,390.00	12,870.93	7,390.00	87.95	89.23	-90.00	5,022.63	-1,994.52	1,300.22	1,126.27	173.96	7.474		
12,800.00	7,390.00	12,970.92	7,390.00	89.46	90.66	-90.00	5,122.62	-1,993.65	1,298.81	1,121.86	176.95	7.340		
12,900.00	7,390.00	13,070.91	7,390.00	90.97	92.10	-90.00	5,222.61	-1,992.77	1,297.40	1,117.45	179.95	7.210		
13,000.00	7,390.00	13,170.90	7,390.00	92.48	93.54	-90.00	5,322.59	-1,991.90	1,295.99	1,113.04	182.95	7.084		
13,100.00	7,390.00	13,270.89	7,390.00	94.00	94.99	-90.00	5,422.58	-1,991.03	1,294.58	1,108.62	185.96	6.962		
13,200.00	7,390.00	13,370.88	7,390.00	95.52	96.44	-90.00	5,522.57	-1,990.16	1,293.16	1,104.19	188.97	6.843		
13,300.00	7,390.00	13,470.87	7,390.00	97.04	97.89	-90.00	5,622.55	-1,989.28	1,291.75	1,099.76	191.99	6.728		
13,400.00	7,390.00	13,570.86	7,390.00	98.56	99.35	-90.00	5,722.54	-1,988.41	1,290.34	1,095.33	195.02	6.617		
13,500.00	7,390.00	13,670.85	7,390.00	100.08	100.81	-90.00	5,822.52	-1,987.54	1,288.93	1,090.89	198.04	6.508		
13,600.00	7,390.00	13,770.84	7,390.00	101.61	102.28	-90.00	5,922.51	-1,986.67	1,287.52	1,086.44	201.08	6.403		
13,700.00	7,390.00	13,870.83	7,390.00	103.14	103.75	-90.00	6,022.50	-1,985.79	1,286.10	1,081.99	204.11	6.301		
13,748.73	7,390.00	13,919.55	7,390.00	103.89	104.46	-90.00	6,071.22	-1,985.37	1,285.42	1,079.82	205.59	6.252		
13,800.00	7,390.00	13,953.41	7,390.00	104.67	104.96	-90.00	6,105.07	-1,985.07	1,284.35	1,077.10	207.25	6.197		
13,821.47	7,390.00	13,975.39	7,390.00	105.01	105.29	-90.00	6,127.05	-1,985.03	1,283.72	1,075.81	207.91	6.174		
13,899.37	7,390.00	14,019.45	7,390.00	106.22	105.95	-90.00	6,171.11	-1,985.80	1,282.70	1,072.30	210.40	6.096		

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 4G-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 4G-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:													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				
13,900.00	7,390.00	14,019.81	7,390.00	106.23	105.96	-90.00	6,171.46	-1,985.81	1,282.70	1,072.28	210.42	6.096					
14,000.00	7,390.00	14,085.72	7,390.00	107.78	106.96	-90.00	6,237.30	-1,989.01	1,284.33	1,070.86	213.47	6.016					
14,100.00	7,390.00	14,185.69	7,390.00	109.34	108.51	-90.00	6,337.10	-1,994.76	1,287.01	1,070.42	216.59	5.942					
14,200.00	7,390.00	14,285.65	7,390.00	110.89	110.06	-90.00	6,436.90	-2,000.51	1,289.68	1,069.98	219.71	5.870					
14,300.00	7,390.00	14,385.62	7,390.00	112.45	111.61	-90.00	6,536.70	-2,006.26	1,292.36	1,069.53	222.83	5.800					
14,400.00	7,390.00	14,485.58	7,390.00	114.01	113.16	-90.00	6,636.50	-2,012.01	1,295.03	1,069.08	225.95	5.731					
14,500.00	7,390.00	14,585.54	7,390.00	115.57	114.71	-90.00	6,736.29	-2,017.76	1,297.71	1,068.63	229.08	5.665					
14,600.00	7,390.00	14,685.51	7,390.00	117.14	116.27	-90.00	6,836.09	-2,023.51	1,300.39	1,068.17	232.22	5.600					
14,625.12	7,390.00	14,710.62	7,390.00	117.53	116.66	-90.00	6,861.16	-2,024.96	1,301.06	1,068.06	233.00	5.584 SF					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	-89.83	0.12	-40.00	40.00					
100.00	100.00	100.00	100.00	0.14	0.14	-89.83	0.12	-40.00	40.00	39.73	0.28	144.925		
200.00	200.00	200.00	200.00	0.50	0.50	-89.83	0.12	-40.00	40.00	39.01	0.99	40.286		
300.00	300.00	300.00	300.00	0.85	0.85	-89.83	0.12	-40.00	40.00	38.29	1.71	23.395		
400.00	400.00	400.00	400.00	1.21	1.21	-89.83	0.12	-40.00	40.00	37.58	2.43	16.483	CC, ES	
500.00	500.00	498.67	498.65	1.57	1.56	-90.64	-0.47	-41.60	41.62	38.48	3.15	13.229		
600.00	600.00	597.10	596.95	1.93	1.90	-92.74	-2.22	-46.36	46.52	42.64	3.88	11.988		
700.00	700.00	695.07	694.55	2.29	2.25	-95.39	-5.12	-54.25	54.77	50.14	4.62	11.844		
800.00	800.00	792.36	791.13	2.65	2.61	-97.98	-9.13	-65.18	66.41	61.05	5.37	12.373		
900.00	899.98	888.99	886.62	2.99	2.99	33.25	-14.24	-79.08	80.01	73.92	6.09	13.141		
1,000.00	999.84	985.13	981.07	3.33	3.38	32.78	-20.41	-95.90	94.02	87.23	6.79	13.847		
1,100.00	1,099.45	1,080.76	1,074.37	3.67	3.80	33.06	-27.64	-115.57	108.39	100.90	7.49	14.469		
1,204.08	1,202.74	1,180.95	1,171.35	4.04	4.27	33.88	-36.31	-139.16	123.59	115.37	8.22	15.039		
1,300.00	1,297.71	1,275.90	1,263.05	4.39	4.74	34.97	-44.79	-162.27	137.02	128.13	8.89	15.413		
1,400.00	1,396.72	1,374.88	1,358.65	4.77	5.24	35.89	-53.64	-186.36	151.07	141.46	9.61	15.718		
1,500.00	1,495.72	1,473.86	1,454.25	5.15	5.75	36.66	-62.49	-210.45	165.14	154.80	10.35	15.963		
1,600.00	1,594.73	1,572.84	1,549.84	5.54	6.26	37.31	-71.34	-234.54	179.25	168.15	11.09	16.161		
1,700.00	1,693.74	1,671.82	1,645.44	5.93	6.78	37.86	-80.19	-258.63	193.37	181.52	11.85	16.322		
1,800.00	1,792.74	1,770.81	1,741.04	6.32	7.31	38.34	-89.04	-282.72	207.50	194.89	12.61	16.455		
1,900.00	1,891.75	1,869.79	1,836.64	6.72	7.83	38.75	-97.89	-306.81	221.65	208.27	13.38	16.566		
2,000.00	1,990.76	1,968.77	1,932.23	7.12	8.36	39.12	-106.74	-330.90	235.81	221.65	14.15	16.659		
2,100.00	2,089.76	2,067.75	2,027.83	7.52	8.90	39.44	-115.59	-354.99	249.97	235.04	14.93	16.738		
2,200.00	2,188.77	2,166.73	2,123.43	7.92	9.43	39.73	-124.43	-379.08	264.15	248.43	15.72	16.805		
2,300.00	2,287.78	2,265.72	2,219.03	8.33	9.96	39.99	-133.28	-403.17	278.32	261.82	16.51	16.862		
2,400.00	2,386.78	2,364.70	2,314.62	8.74	10.50	40.23	-142.13	-427.26	292.51	275.21	17.30	16.911		
2,500.00	2,485.79	2,463.68	2,410.22	9.14	11.04	40.44	-150.98	-451.35	306.70	288.61	18.09	16.954		
2,600.00	2,584.80	2,562.66	2,505.82	9.55	11.58	40.64	-159.83	-475.43	320.89	302.01	18.88	16.992		
2,700.00	2,683.81	2,661.64	2,601.42	9.96	12.12	40.82	-168.68	-499.52	335.09	315.40	19.68	17.025		
2,800.00	2,782.81	2,760.63	2,697.01	10.37	12.66	40.98	-177.53	-523.61	349.28	328.80	20.48	17.054		
2,900.00	2,881.82	2,859.61	2,792.61	10.78	13.20	41.13	-186.38	-547.70	363.49	342.20	21.28	17.079		
3,000.00	2,980.83	2,958.59	2,888.21	11.19	13.74	41.27	-195.22	-571.79	377.69	355.61	22.08	17.102		
3,100.00	3,079.83	3,057.57	2,983.80	11.60	14.28	41.40	-204.07	-595.88	391.90	369.01	22.89	17.122		
3,200.00	3,178.84	3,156.56	3,079.40	12.02	14.82	41.52	-212.92	-619.97	406.10	382.41	23.69	17.140		
3,300.00	3,277.85	3,255.54	3,175.00	12.43	15.36	41.63	-221.77	-644.06	420.31	395.81	24.50	17.157		
3,400.00	3,376.85	3,354.52	3,270.60	12.84	15.91	41.74	-230.62	-668.15	434.52	409.22	25.31	17.171		
3,500.00	3,475.86	3,453.50	3,366.19	13.25	16.45	41.84	-239.47	-692.24	448.73	422.62	26.11	17.185		
3,600.00	3,574.87	3,552.48	3,461.79	13.67	16.99	41.93	-248.32	-716.33	462.95	436.03	26.92	17.197		
3,700.00	3,673.87	3,651.47	3,557.39	14.08	17.53	42.02	-257.17	-740.42	477.16	449.43	27.73	17.207		
3,800.00	3,772.88	3,750.45	3,652.99	14.49	18.08	42.10	-266.01	-764.51	491.38	462.84	28.54	17.217		
3,900.00	3,871.89	3,849.43	3,748.58	14.91	18.62	42.17	-274.86	-788.60	505.59	476.24	29.35	17.226		
4,000.00	3,970.90	3,948.41	3,844.18	15.32	19.17	42.25	-283.71	-812.69	519.81	489.65	30.16	17.235		
4,100.00	4,069.90	4,047.39	3,939.78	15.74	19.71	42.32	-292.56	-836.78	534.03	503.06	30.97	17.242		
4,200.00	4,168.91	4,146.38	4,035.38	16.15	20.26	42.38	-301.41	-860.87	548.25	516.46	31.78	17.249		
4,300.00	4,267.92	4,245.36	4,130.97	16.57	20.80	42.44	-310.26	-884.96	562.47	529.87	32.60	17.255		
4,400.00	4,366.92	4,344.34	4,226.57	16.98	21.34	42.50	-319.11	-909.05	576.68	543.28	33.41	17.261		
4,500.00	4,465.93	4,443.32	4,322.17	17.40	21.89	42.56	-327.96	-933.14	590.91	556.68	34.22	17.267		
4,600.00	4,564.94	4,542.31	4,417.76	17.81	22.43	42.61	-336.80	-957.23	605.13	570.09	35.04	17.272		
4,700.00	4,663.94	4,641.29	4,513.36	18.23	22.98	42.66	-345.65	-981.32	619.35	583.50	35.85	17.276		
4,800.00	4,762.95	4,740.27	4,608.96	18.64	23.52	42.71	-354.50	-1,005.41	633.57	596.91	36.66	17.281		
4,900.00	4,861.96	4,839.25	4,704.56	19.06	24.07	42.76	-363.35	-1,029.49	647.79	610.31	37.48	17.285		
5,000.00	4,960.96	4,938.23	4,800.15	19.48	24.62	42.80	-372.20	-1,053.58	662.01	623.72	38.29	17.288		
5,100.00	5,059.97	5,037.22	4,895.75	19.89	25.16	42.85	-381.05	-1,077.67	676.24	637.13	39.11	17.292		

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 4G-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 4G-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					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	
5,200.00	5,158.98	5,136.20	4,991.35	20.31	25.71	42.89	-389.90	-1,101.76	690.46	650.54	39.92	17.295		
5,300.00	5,257.99	5,235.18	5,086.95	20.72	26.25	42.93	-398.75	-1,125.85	704.68	663.95	40.74	17.298		
5,400.00	5,356.99	5,334.16	5,182.54	21.14	26.80	42.96	-407.59	-1,149.94	718.91	677.35	41.55	17.301		
5,500.00	5,456.00	5,433.14	5,278.14	21.56	27.34	43.00	-416.44	-1,174.03	733.13	690.76	42.37	17.303		
5,600.00	5,555.01	5,532.13	5,373.74	21.97	27.89	43.04	-425.29	-1,198.12	747.36	704.17	43.19	17.306		
5,700.00	5,654.01	5,631.11	5,469.34	22.39	28.44	43.07	-434.14	-1,222.21	761.58	717.58	44.00	17.308		
5,800.00	5,753.02	5,730.09	5,564.93	22.81	28.98	43.10	-442.99	-1,246.30	775.81	730.99	44.82	17.310		
5,900.00	5,852.03	5,829.07	5,660.53	23.22	29.53	43.13	-451.84	-1,270.39	790.03	744.40	45.63	17.312		
6,000.00	5,951.03	5,928.05	5,756.13	23.64	30.07	43.16	-460.69	-1,294.48	804.26	757.81	46.45	17.314		
6,100.00	6,050.04	6,027.04	5,851.72	24.06	30.62	43.19	-469.54	-1,318.57	818.48	771.22	47.27	17.316		
6,200.00	6,149.05	6,126.02	5,947.32	24.47	31.17	43.22	-478.38	-1,342.66	832.71	784.62	48.09	17.317		
6,300.00	6,248.05	6,225.00	6,042.92	24.89	31.71	43.25	-487.23	-1,366.75	846.94	798.03	48.90	17.319		
6,400.00	6,347.06	6,323.98	6,138.52	25.31	32.26	43.27	-496.08	-1,390.84	861.16	811.44	49.72	17.320		
6,500.00	6,446.07	6,422.97	6,234.11	25.72	32.80	43.30	-504.93	-1,414.93	875.39	824.85	50.54	17.322		
6,600.00	6,545.07	6,521.95	6,329.71	26.14	33.35	43.32	-513.78	-1,439.02	889.62	838.26	51.35	17.323		
6,665.43	6,609.86	6,586.71	6,392.26	26.41	33.71	43.34	-519.57	-1,454.78	898.92	847.04	51.89	17.324		
6,700.00	6,644.15	6,620.92	6,425.30	26.55	33.90	25.60	-522.63	-1,463.10	903.83	851.67	52.16	17.328		
6,750.00	6,693.86	6,670.26	6,472.95	26.74	34.17	-10.61	-527.04	-1,475.11	910.85	858.35	52.51	17.348		
6,800.00	6,743.50	6,719.21	6,520.23	26.90	34.44	-39.73	-531.41	-1,487.03	917.82	865.02	52.80	17.383		
6,850.00	6,792.82	6,767.53	6,566.90	27.05	34.71	-55.46	-535.73	-1,498.79	924.77	871.73	53.04	17.434		
6,900.00	6,841.57	6,815.00	6,612.74	27.19	34.97	-64.18	-539.98	-1,510.34	931.79	878.55	53.24	17.500		
6,950.00	6,889.53	6,861.38	6,657.53	27.31	35.22	-69.67	-544.12	-1,521.63	938.99	885.59	53.40	17.583		
7,000.00	6,936.45	6,906.44	6,701.05	27.41	35.47	-73.51	-548.15	-1,532.59	946.51	892.98	53.53	17.682		
7,050.00	6,982.12	6,950.36	6,743.48	27.51	35.71	-76.43	-552.00	-1,543.29	954.51	900.88	53.63	17.798		
7,100.00	7,026.30	6,995.79	6,787.45	27.59	35.96	-78.77	-553.95	-1,554.48	963.04	909.30	53.74	17.920		
7,150.00	7,068.78	7,042.78	6,832.94	27.66	36.20	-80.70	-552.94	-1,566.21	972.08	918.21	53.88	18.043		
7,200.00	7,109.36	7,091.54	6,879.92	27.71	36.43	-82.35	-548.64	-1,578.51	981.59	927.56	54.03	18.167		
7,250.00	7,147.83	7,142.32	6,928.38	27.76	36.65	-83.80	-540.67	-1,591.37	991.51	937.29	54.21	18.289		
7,300.00	7,184.01	7,195.38	6,978.25	27.79	36.86	-85.10	-528.58	-1,604.81	1,001.77	947.35	54.42	18.409		
7,350.00	7,217.73	7,251.03	7,029.42	27.82	37.06	-86.29	-511.83	-1,618.83	1,012.30	957.66	54.64	18.527		
7,400.00	7,248.81	7,309.62	7,081.70	27.83	37.25	-87.41	-489.80	-1,633.41	1,023.00	968.14	54.87	18.645		
7,450.00	7,277.12	7,371.51	7,134.77	27.84	37.43	-88.46	-461.81	-1,648.51	1,033.77	978.67	55.10	18.763		
7,500.00	7,302.50	7,437.10	7,188.17	27.85	37.59	-89.46	-427.08	-1,664.05	1,044.46	989.15	55.31	18.882		
7,550.00	7,324.84	7,506.78	7,241.20	27.84	37.73	-90.42	-384.78	-1,679.88	1,054.94	999.43	55.51	19.004		
7,600.00	7,344.02	7,580.94	7,292.89	27.84	37.85	-91.32	-334.11	-1,695.82	1,065.04	1,009.35	55.69	19.125		
7,650.00	7,359.96	7,659.86	7,341.94	27.84	37.95	-92.17	-274.36	-1,711.55	1,074.56	1,018.72	55.84	19.244		
7,700.00	7,372.58	7,743.73	7,386.66	27.84	38.03	-92.93	-205.10	-1,726.66	1,083.31	1,027.33	55.98	19.351		
7,750.00	7,381.81	7,832.49	7,425.02	27.86	38.09	-93.59	-126.35	-1,740.64	1,091.06	1,034.92	56.14	19.435		
7,800.00	7,387.61	7,925.80	7,454.77	27.92	38.14	-94.10	-38.83	-1,752.87	1,097.61	1,041.27	56.34	19.482		
7,850.00	7,389.95	8,022.97	7,473.70	28.02	38.19	-94.43	55.89	-1,762.70	1,102.77	1,046.14	56.63	19.474		
7,858.73	7,390.00	8,040.25	7,475.75	28.04	38.20	-94.47	72.99	-1,764.12	1,103.52	1,046.83	56.69	19.467		
7,900.00	7,390.00	8,121.24	7,480.00	28.17	38.25	-94.67	153.66	-1,769.44	1,106.16	1,049.12	57.04	19.393		
8,000.00	7,390.00	8,221.13	7,480.00	28.61	38.34	-94.65	253.41	-1,774.67	1,110.84	1,052.96	57.89	19.190		
8,100.00	7,390.00	8,321.02	7,480.00	29.16	38.49	-94.63	353.16	-1,779.89	1,115.52	1,056.63	58.89	18.942		
8,200.00	7,390.00	8,420.91	7,480.00	29.79	38.70	-94.61	452.92	-1,785.12	1,120.20	1,060.15	60.05	18.654		
8,300.00	7,390.00	8,520.80	7,480.00	30.50	38.98	-94.59	552.67	-1,790.35	1,124.88	1,063.52	61.36	18.334		
8,400.00	7,390.00	8,620.69	7,480.00	31.27	39.33	-94.58	652.42	-1,795.58	1,129.56	1,066.76	62.80	17.988		
8,500.00	7,390.00	8,720.58	7,480.00	32.10	39.76	-94.56	752.18	-1,800.80	1,134.24	1,069.87	64.37	17.622		
8,600.00	7,390.00	8,820.47	7,480.00	32.98	40.27	-94.54	851.93	-1,806.03	1,138.92	1,072.87	66.05	17.242		
8,700.00	7,390.00	8,920.36	7,480.00	33.91	40.86	-94.52	951.68	-1,811.26	1,143.60	1,075.75	67.85	16.854		
8,800.00	7,390.00	9,020.25	7,480.00	34.89	41.52	-94.50	1,051.43	-1,816.49	1,148.28	1,078.53	69.75	16.463		
8,900.00	7,390.00	9,120.14	7,480.00	35.91	42.26	-94.48	1,151.19	-1,821.72	1,152.96	1,081.22	71.74	16.071		

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 4G-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 4G-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	
9,000.00	7,390.00	9,220.03	7,480.00	36.96	43.06	-94.46	1,250.94	-1,826.94	1,157.64	1,083.82	73.82	15.682	
9,100.00	7,390.00	9,319.92	7,480.00	38.06	43.92	-94.45	1,350.69	-1,832.17	1,162.32	1,086.35	75.98	15.299	
9,200.00	7,390.00	9,419.81	7,480.00	39.18	44.84	-94.43	1,450.44	-1,837.40	1,167.00	1,088.80	78.20	14.923	
9,300.00	7,390.00	9,554.22	7,480.00	40.34	46.13	-94.41	1,584.72	-1,843.18	1,170.95	1,090.49	80.46	14.553	
9,400.00	7,390.00	9,675.87	7,480.00	41.52	47.32	-94.41	1,706.37	-1,844.19	1,171.12	1,088.39	82.73	14.156	
9,500.00	7,390.00	9,775.87	7,480.00	42.73	48.32	-94.41	1,806.37	-1,844.62	1,171.01	1,085.92	85.09	13.762	
9,600.00	7,390.00	9,875.87	7,480.00	43.96	49.36	-94.41	1,906.37	-1,845.04	1,170.90	1,083.39	87.51	13.381	
9,700.00	7,390.00	9,975.87	7,480.00	45.22	50.44	-94.41	2,006.37	-1,845.47	1,170.78	1,080.82	89.97	13.014	
9,800.00	7,390.00	10,075.87	7,480.00	46.49	51.54	-94.41	2,106.37	-1,845.89	1,170.67	1,078.20	92.47	12.660	
9,900.00	7,390.00	10,175.87	7,480.00	47.79	52.68	-94.41	2,206.36	-1,846.32	1,170.55	1,075.54	95.01	12.320	
10,000.00	7,390.00	10,275.87	7,480.00	49.10	53.84	-94.41	2,306.36	-1,846.75	1,170.44	1,072.85	97.59	11.993	
10,100.00	7,390.00	10,375.87	7,480.00	50.42	55.02	-94.41	2,406.36	-1,847.17	1,170.33	1,070.12	100.20	11.680	
10,200.00	7,390.00	10,475.87	7,480.00	51.76	56.22	-94.41	2,506.36	-1,847.60	1,170.21	1,067.37	102.85	11.378	
10,300.00	7,390.00	10,575.87	7,480.00	53.11	57.45	-94.41	2,606.36	-1,848.02	1,170.10	1,064.58	105.52	11.089	
10,400.00	7,390.00	10,675.87	7,480.00	54.48	58.69	-94.41	2,706.36	-1,848.45	1,169.99	1,061.77	108.22	10.811	
10,500.00	7,390.00	10,775.87	7,480.00	55.86	59.95	-94.41	2,806.36	-1,848.87	1,169.87	1,058.93	110.94	10.545	
10,600.00	7,390.00	10,901.14	7,480.00	57.24	61.55	-94.42	2,931.62	-1,848.73	1,169.36	1,055.80	113.56	10.297	
10,700.00	7,390.00	11,001.16	7,480.00	58.64	62.81	-94.42	3,031.63	-1,846.99	1,167.08	1,050.78	116.31	10.035	
10,800.00	7,390.00	11,101.13	7,480.00	60.05	64.09	-94.43	3,131.58	-1,845.24	1,164.81	1,045.73	119.07	9.782	
10,900.00	7,390.00	11,201.10	7,480.00	61.47	65.39	-94.44	3,231.54	-1,843.50	1,162.53	1,040.67	121.86	9.540	
11,000.00	7,390.00	11,301.08	7,480.00	62.89	66.69	-94.45	3,331.50	-1,841.75	1,160.25	1,035.59	124.66	9.308	
11,100.00	7,390.00	11,401.05	7,480.00	64.32	68.01	-94.46	3,431.46	-1,840.01	1,157.97	1,030.50	127.47	9.084	
11,200.00	7,390.00	11,501.03	7,480.00	65.76	69.34	-94.47	3,531.42	-1,838.26	1,155.70	1,025.39	130.31	8.869	
11,300.00	7,390.00	11,601.00	7,480.00	67.20	70.68	-94.48	3,631.38	-1,836.52	1,153.42	1,020.27	133.15	8.662	
11,400.00	7,390.00	11,700.97	7,480.00	68.66	72.03	-94.49	3,731.34	-1,834.77	1,151.14	1,015.13	136.01	8.464	
11,500.00	7,390.00	11,800.95	7,480.00	70.11	73.38	-94.49	3,831.29	-1,833.03	1,148.86	1,009.98	138.88	8.272	
11,600.00	7,390.00	11,900.92	7,480.00	71.58	74.75	-94.50	3,931.25	-1,831.28	1,146.59	1,004.82	141.77	8.088	
11,700.00	7,390.00	12,000.90	7,480.00	73.04	76.12	-94.51	4,031.21	-1,829.54	1,144.31	999.65	144.66	7.910	
11,800.00	7,390.00	12,100.87	7,480.00	74.52	77.51	-94.52	4,131.17	-1,827.79	1,142.03	994.46	147.57	7.739	
11,900.00	7,390.00	12,200.84	7,480.00	75.99	78.89	-94.53	4,231.13	-1,826.05	1,139.75	989.27	150.48	7.574	
12,000.00	7,390.00	12,300.82	7,480.00	77.47	80.29	-94.54	4,331.09	-1,824.30	1,137.48	984.07	153.40	7.415	
12,100.00	7,390.00	12,400.79	7,480.00	78.96	81.69	-94.55	4,431.05	-1,822.56	1,135.20	978.86	156.34	7.261	
12,200.00	7,390.00	12,500.77	7,480.00	80.45	83.10	-94.56	4,531.01	-1,820.82	1,132.92	973.64	159.28	7.113	
12,300.00	7,390.00	12,600.74	7,480.00	81.94	84.51	-94.57	4,630.96	-1,819.07	1,130.64	968.42	162.22	6.970	
12,400.00	7,390.00	12,700.71	7,480.00	83.44	85.93	-94.58	4,730.92	-1,817.33	1,128.37	963.19	165.18	6.831	
12,500.00	7,390.00	12,800.69	7,480.00	84.94	87.36	-94.59	4,830.88	-1,815.58	1,126.09	957.95	168.14	6.697	
12,600.00	7,390.00	12,900.66	7,480.00	86.44	88.79	-94.59	4,930.84	-1,813.84	1,123.81	952.70	171.11	6.568	
12,700.00	7,390.00	13,000.63	7,480.00	87.95	90.22	-94.60	5,030.80	-1,812.09	1,121.53	947.45	174.09	6.442	
12,800.00	7,390.00	13,100.61	7,480.00	89.46	91.66	-94.61	5,130.76	-1,810.35	1,119.26	942.19	177.07	6.321	
12,900.00	7,390.00	13,200.58	7,480.00	90.97	93.11	-94.62	5,230.72	-1,808.60	1,116.98	936.93	180.05	6.204	
13,000.00	7,390.00	13,300.56	7,480.00	92.48	94.55	-94.63	5,330.67	-1,806.86	1,114.70	931.66	183.04	6.090	
13,100.00	7,390.00	13,400.53	7,480.00	94.00	96.00	-94.64	5,430.63	-1,805.11	1,112.43	926.39	186.04	5.979	
13,200.00	7,390.00	13,500.50	7,480.00	95.52	97.46	-94.65	5,530.59	-1,803.37	1,110.15	921.11	189.04	5.872	
13,300.00	7,390.00	13,600.48	7,480.00	97.04	98.92	-94.66	5,630.55	-1,801.62	1,107.87	915.82	192.05	5.769	
13,400.00	7,390.00	13,700.45	7,480.00	98.56	100.38	-94.67	5,730.51	-1,799.88	1,105.60	910.54	195.06	5.668	
13,500.00	7,390.00	13,800.43	7,480.00	100.08	101.84	-94.68	5,830.47	-1,798.13	1,103.32	905.25	198.07	5.570	
13,600.00	7,390.00	13,900.40	7,480.00	101.61	103.31	-94.69	5,930.43	-1,796.39	1,101.04	899.95	201.09	5.475	
13,700.00	7,390.00	14,000.37	7,480.00	103.14	104.78	-94.70	6,030.39	-1,794.64	1,098.77	894.65	204.11	5.383	
13,748.73	7,390.00	14,049.09	7,480.00	103.89	105.50	-94.70	6,079.09	-1,793.79	1,097.66	892.07	205.59	5.339	
13,800.00	7,390.00	14,100.33	7,480.00	104.67	106.26	-94.71	6,130.33	-1,792.90	1,096.03	888.89	207.14	5.291	
13,821.47	7,390.00	14,121.79	7,480.00	105.01	106.57	-94.72	6,151.78	-1,792.52	1,095.08	887.29	207.79	5.270	
13,900.00	7,390.00	14,200.22	7,480.00	106.23	107.73	-94.74	6,230.20	-1,791.16	1,091.31	881.12	210.18	5.192	

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 4G-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 4G-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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	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				
14,000.00	7,390.00	14,300.11	7,480.00	107.78	109.21	-94.76	6,330.07	-1,789.41	1,086.50	873.27	213.23	5.096				
14,100.00	7,390.00	14,399.99	7,480.00	109.34	110.69	-94.78	6,429.94	-1,787.67	1,081.69	865.42	216.27	5.002				
14,200.00	7,390.00	14,499.87	7,480.00	110.89	112.17	-94.80	6,529.81	-1,785.93	1,076.89	857.57	219.32	4.910				
14,300.00	7,390.00	14,599.76	7,480.00	112.45	113.66	-94.82	6,629.68	-1,784.18	1,072.08	849.71	222.38	4.821				
14,400.00	7,390.00	14,699.64	7,480.00	114.01	115.15	-94.84	6,729.55	-1,782.44	1,067.28	841.85	225.43	4.734				
14,500.00	7,390.00	14,799.52	7,480.00	115.57	116.64	-94.86	6,829.41	-1,780.70	1,062.47	833.98	228.49	4.650				
14,600.00	7,390.00	14,899.41	7,480.00	117.14	118.13	-94.89	6,929.28	-1,778.95	1,057.67	826.12	231.55	4.568				
14,625.12	7,390.00	14,901.25	7,480.00	117.53	118.16	-94.89	6,931.12	-1,778.92	1,056.72	824.19	232.53	4.544 SF				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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	-89.70	0.16	-30.21	30.21				
100.00	100.00	100.00	100.00	0.14	0.14	-89.70	0.16	-30.21	30.21	29.94	0.28	109.456	
200.00	200.00	200.00	200.00	0.50	0.50	-89.70	0.16	-30.21	30.21	29.22	0.99	30.426	
300.00	300.00	300.00	300.00	0.85	0.85	-89.70	0.16	-30.21	30.21	28.50	1.71	17.669	
400.00	400.00	400.00	400.00	1.21	1.21	-89.70	0.16	-30.21	30.21	27.79	2.43	12.449	
500.00	500.00	500.00	500.00	1.57	1.57	-89.70	0.16	-30.21	30.21	27.07	3.14	9.610 CC, ES	
600.00	600.00	599.00	598.98	1.93	1.92	-90.87	-0.48	-31.80	31.82	27.96	3.86	8.245	
700.00	700.00	697.75	697.60	2.29	2.26	-93.77	-2.41	-36.53	36.69	32.11	4.58	8.005	
800.00	800.00	796.05	795.52	2.65	2.60	-97.19	-5.60	-44.37	44.95	39.63	5.32	8.454	
900.00	899.98	893.84	892.60	2.99	2.96	33.51	-10.02	-55.25	55.19	49.15	6.03	9.148	
1,000.00	999.84	991.26	988.85	3.33	3.34	32.96	-15.66	-69.14	65.87	59.14	6.73	9.782	
1,100.00	1,099.45	1,088.28	1,084.15	3.67	3.73	33.40	-22.51	-85.97	76.95	69.51	7.44	10.349	
1,204.08	1,202.74	1,188.82	1,182.20	4.04	4.17	34.48	-30.88	-106.56	88.90	80.73	8.17	10.881	
1,300.00	1,297.71	1,283.95	1,274.57	4.39	4.60	35.69	-39.45	-127.64	100.26	91.41	8.84	11.337	
1,400.00	1,396.72	1,383.22	1,370.96	4.77	5.07	36.68	-48.40	-149.65	112.14	102.57	9.56	11.726	
1,500.00	1,495.72	1,482.50	1,467.35	5.15	5.54	37.49	-57.34	-171.65	124.04	113.74	10.30	12.047	
1,600.00	1,594.73	1,581.77	1,563.74	5.54	6.03	38.15	-66.29	-193.66	135.97	124.93	11.04	12.314	
1,700.00	1,693.74	1,681.05	1,660.13	5.93	6.52	38.71	-75.24	-215.66	147.91	136.11	11.80	12.540	
1,800.00	1,792.74	1,780.32	1,756.52	6.32	7.01	39.18	-84.18	-237.67	159.86	147.30	12.56	12.731	
1,900.00	1,891.75	1,879.60	1,852.92	6.72	7.51	39.59	-93.13	-259.67	171.82	158.50	13.32	12.895	
2,000.00	1,990.76	1,978.87	1,949.31	7.12	8.01	39.95	-102.08	-281.68	183.79	169.69	14.10	13.037	
2,100.00	2,089.76	2,078.15	2,045.70	7.52	8.51	40.26	-111.02	-303.68	195.76	180.89	14.88	13.160	
2,200.00	2,188.77	2,177.42	2,142.09	7.92	9.02	40.53	-119.97	-325.69	207.74	192.09	15.66	13.268	
2,300.00	2,287.78	2,276.70	2,238.48	8.33	9.52	40.78	-128.92	-347.69	219.73	203.29	16.44	13.363	
2,400.00	2,386.78	2,375.98	2,334.87	8.74	10.03	41.00	-137.86	-369.70	231.72	214.49	17.23	13.448	
2,500.00	2,485.79	2,475.25	2,431.26	9.14	10.54	41.20	-146.81	-391.70	243.71	225.69	18.02	13.524	
2,600.00	2,584.80	2,574.53	2,527.65	9.55	11.05	41.38	-155.76	-413.71	255.70	236.89	18.81	13.591	
2,700.00	2,683.81	2,673.80	2,624.05	9.96	11.56	41.54	-164.70	-435.72	267.70	248.09	19.61	13.652	
2,800.00	2,782.81	2,773.08	2,720.44	10.37	12.07	41.69	-173.65	-457.72	279.70	259.29	20.40	13.708	
2,900.00	2,881.82	2,872.35	2,816.83	10.78	12.59	41.83	-182.60	-479.73	291.69	270.49	21.20	13.758	
3,000.00	2,980.83	2,971.63	2,913.22	11.19	13.10	41.96	-191.54	-501.73	303.70	281.69	22.00	13.804	
3,100.00	3,079.83	3,070.90	3,009.61	11.60	13.61	42.07	-200.49	-523.74	315.70	292.90	22.80	13.845	
3,200.00	3,178.84	3,170.18	3,106.00	12.02	14.13	42.18	-209.44	-545.74	327.70	304.10	23.60	13.884	
3,300.00	3,277.85	3,269.45	3,202.39	12.43	14.64	42.28	-218.38	-567.75	339.71	315.30	24.41	13.919	
3,400.00	3,376.85	3,368.73	3,298.78	12.84	15.16	42.38	-227.33	-589.75	351.71	326.50	25.21	13.952	
3,500.00	3,475.86	3,468.00	3,395.18	13.25	15.67	42.46	-236.28	-611.76	363.72	337.71	26.01	13.982	
3,600.00	3,574.87	3,567.28	3,491.57	13.67	16.19	42.55	-245.22	-633.76	375.73	348.91	26.82	14.010	
3,700.00	3,673.87	3,666.55	3,587.96	14.08	16.71	42.62	-254.17	-655.77	387.73	360.11	27.62	14.036	
3,800.00	3,772.88	3,765.83	3,684.35	14.49	17.22	42.69	-263.12	-677.77	399.74	371.31	28.43	14.061	
3,900.00	3,871.89	3,865.10	3,780.74	14.91	17.74	42.76	-272.06	-699.78	411.75	382.51	29.24	14.083	
4,000.00	3,970.90	3,964.38	3,877.13	15.32	18.26	42.83	-281.01	-721.78	423.76	393.72	30.04	14.105	
4,100.00	4,069.90	4,063.65	3,973.52	15.74	18.77	42.89	-289.95	-743.79	435.77	404.92	30.85	14.125	
4,200.00	4,168.91	4,162.93	4,069.91	16.15	19.29	42.95	-298.90	-765.79	447.78	416.12	31.66	14.144	
4,300.00	4,267.92	4,262.20	4,166.31	16.57	19.81	43.00	-307.85	-787.80	459.79	427.32	32.47	14.161	
4,400.00	4,366.92	4,361.48	4,262.70	16.98	20.33	43.05	-316.79	-809.81	471.80	438.53	33.28	14.178	
4,500.00	4,465.93	4,460.75	4,359.09	17.40	20.84	43.10	-325.74	-831.81	483.82	449.73	34.09	14.194	
4,600.00	4,564.94	4,560.03	4,455.48	17.81	21.36	43.15	-334.69	-853.82	495.83	460.93	34.90	14.208	
4,700.00	4,663.94	4,659.30	4,551.87	18.23	21.88	43.19	-343.63	-875.82	507.84	472.13	35.71	14.223	
4,800.00	4,762.95	4,758.58	4,648.26	18.64	22.40	43.23	-352.58	-897.83	519.85	483.34	36.52	14.236	
4,900.00	4,861.96	4,857.85	4,744.65	19.06	22.92	43.27	-361.53	-919.83	531.87	494.54	37.33	14.249	
5,000.00	4,960.96	4,957.13	4,841.04	19.48	23.44	43.31	-370.47	-941.84	543.88	505.74	38.14	14.261	
5,100.00	5,059.97	5,056.40	4,937.44	19.89	23.95	43.35	-379.42	-963.84	555.89	516.94	38.95	14.272	

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 4G-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 4G-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		
5,200.00	5,158.98	5,155.68	5,033.83	20.31	24.47	43.39	-388.37	-985.85	567.91	528.15	39.76	14.283		
5,300.00	5,257.99	5,254.95	5,130.22	20.72	24.99	43.42	-397.31	-1,007.85	579.92	539.35	40.57	14.293		
5,400.00	5,356.99	5,354.23	5,226.61	21.14	25.51	43.45	-406.26	-1,029.86	591.94	550.55	41.38	14.303		
5,500.00	5,456.00	5,453.50	5,323.00	21.56	26.03	43.48	-415.21	-1,051.86	603.95	561.75	42.20	14.313		
5,600.00	5,555.01	5,552.78	5,419.39	21.97	26.55	43.51	-424.15	-1,073.87	615.96	572.96	43.01	14.322		
5,700.00	5,654.01	5,652.05	5,515.78	22.39	27.07	43.54	-433.10	-1,095.87	627.98	584.16	43.82	14.331		
5,800.00	5,753.02	5,751.33	5,612.17	22.81	27.59	43.57	-442.05	-1,117.88	639.99	595.36	44.63	14.339		
5,900.00	5,852.03	5,850.60	5,708.57	23.22	28.11	43.60	-450.99	-1,139.88	652.01	606.56	45.45	14.347		
6,000.00	5,951.03	5,949.88	5,804.96	23.64	28.62	43.62	-459.94	-1,161.89	664.02	617.77	46.26	14.355		
6,100.00	6,050.04	6,049.15	5,901.35	24.06	29.14	43.65	-468.89	-1,183.90	676.04	628.97	47.07	14.362		
6,200.00	6,149.05	6,148.43	5,997.74	24.47	29.66	43.67	-477.83	-1,205.90	688.06	640.17	47.88	14.369		
6,300.00	6,248.05	6,247.70	6,094.13	24.89	30.18	43.70	-486.78	-1,227.91	700.07	651.37	48.70	14.376		
6,400.00	6,347.06	6,346.98	6,190.52	25.31	30.70	43.72	-495.73	-1,249.91	712.09	662.58	49.51	14.382		
6,500.00	6,446.07	6,446.26	6,286.91	25.72	31.22	43.74	-504.67	-1,271.92	724.10	673.78	50.32	14.389		
6,600.00	6,545.07	6,545.53	6,383.30	26.14	31.74	43.76	-513.62	-1,293.92	736.12	684.98	51.14	14.395		
6,665.43	6,609.86	6,610.49	6,446.38	26.41	32.08	43.77	-519.47	-1,308.32	743.98	692.31	51.67	14.399		
6,700.00	6,644.15	6,644.80	6,479.69	26.55	32.26	25.96	-522.57	-1,315.93	748.11	696.17	51.94	14.404		
6,750.00	6,693.86	6,694.28	6,527.73	26.74	32.52	-10.40	-527.02	-1,326.89	754.01	701.73	52.28	14.423		
6,800.00	6,743.50	6,743.37	6,575.39	26.90	32.78	-39.71	-531.45	-1,337.77	759.84	707.28	52.56	14.456		
6,850.00	6,792.82	6,791.83	6,622.45	27.05	33.03	-55.67	-535.82	-1,348.52	765.68	712.89	52.79	14.504		
6,900.00	6,841.57	6,839.78	6,669.08	27.19	33.27	-64.58	-539.03	-1,359.17	771.62	718.64	52.98	14.564		
6,950.00	6,889.53	6,888.51	6,716.57	27.31	33.51	-70.11	-539.06	-1,370.05	777.70	724.54	53.16	14.628		
7,000.00	6,936.45	6,938.16	6,764.84	27.41	33.73	-73.89	-535.68	-1,381.14	783.89	730.55	53.34	14.696		
7,050.00	6,982.12	6,988.80	6,813.71	27.51	33.94	-76.66	-528.72	-1,392.40	790.15	736.63	53.51	14.765		
7,100.00	7,026.30	7,040.48	6,862.95	27.59	34.13	-78.81	-517.97	-1,403.77	796.44	742.76	53.69	14.835		
7,150.00	7,068.78	7,093.27	6,912.33	27.66	34.30	-80.55	-503.26	-1,415.21	802.74	748.88	53.86	14.904		
7,200.00	7,109.36	7,147.23	6,961.56	27.71	34.45	-82.00	-484.41	-1,426.66	808.98	754.95	54.04	14.971		
7,250.00	7,147.83	7,202.39	7,010.31	27.76	34.59	-83.23	-461.26	-1,438.03	815.13	760.92	54.21	15.035		
7,300.00	7,184.01	7,258.82	7,058.22	27.79	34.71	-84.31	-433.67	-1,449.24	821.14	766.75	54.39	15.096		
7,350.00	7,217.73	7,316.53	7,104.87	27.82	34.82	-85.25	-401.53	-1,460.21	826.95	772.38	54.57	15.153		
7,400.00	7,248.81	7,375.56	7,149.80	27.83	34.90	-86.09	-364.78	-1,470.83	832.51	777.75	54.76	15.204		
7,450.00	7,277.12	7,435.91	7,192.53	27.84	34.97	-86.83	-323.42	-1,480.98	837.76	782.82	54.94	15.248		
7,500.00	7,302.50	7,497.55	7,232.50	27.85	35.02	-87.49	-277.50	-1,490.53	842.64	787.51	55.13	15.283		
7,550.00	7,324.84	7,560.46	7,269.16	27.84	35.05	-88.07	-227.17	-1,499.37	847.10	791.76	55.34	15.308		
7,600.00	7,344.02	7,624.57	7,301.94	27.84	35.07	-88.57	-172.69	-1,507.36	851.08	795.53	55.55	15.321		
7,650.00	7,359.96	7,689.78	7,330.28	27.84	35.08	-89.00	-114.40	-1,514.36	854.53	798.74	55.79	15.318		
7,700.00	7,372.58	7,755.97	7,353.63	27.84	35.08	-89.36	-52.77	-1,520.25	857.39	801.35	56.05	15.298		
7,750.00	7,381.81	7,822.99	7,371.51	27.86	35.07	-89.64	11.63	-1,524.91	859.64	803.30	56.34	15.259		
7,800.00	7,387.61	7,890.67	7,383.54	27.92	35.07	-89.85	78.12	-1,528.24	861.23	804.57	56.66	15.199		
7,850.00	7,389.95	7,958.82	7,389.41	28.02	35.07	-89.97	145.96	-1,530.18	862.14	805.11	57.03	15.117		
7,858.73	7,390.00	7,970.74	7,389.79	28.04	35.07	-89.99	157.88	-1,530.37	862.23	805.13	57.10	15.101		
7,900.00	7,390.00	8,016.70	7,390.00	28.17	35.08	-90.00	203.83	-1,530.82	862.40	804.98	57.41	15.021		
8,000.00	7,390.00	8,116.70	7,390.00	28.61	35.14	-90.00	303.83	-1,531.69	862.73	804.48	58.25	14.811		
8,100.00	7,390.00	8,216.70	7,390.00	29.16	35.26	-90.00	403.82	-1,532.56	863.06	803.82	59.24	14.568		
8,200.00	7,390.00	8,316.70	7,390.00	29.79	35.46	-90.00	503.82	-1,533.44	863.40	803.01	60.39	14.298		
8,300.00	7,390.00	8,416.70	7,390.00	30.50	35.74	-90.00	603.82	-1,534.31	863.73	802.06	61.67	14.005		
8,400.00	7,390.00	8,516.70	7,390.00	31.27	36.11	-90.00	703.81	-1,535.18	864.06	800.97	63.09	13.695		
8,500.00	7,390.00	8,616.70	7,390.00	32.10	36.58	-90.00	803.81	-1,536.05	864.40	799.76	64.64	13.372		
8,600.00	7,390.00	8,716.70	7,390.00	32.98	37.15	-90.00	903.80	-1,536.93	864.73	798.43	66.30	13.042		
8,700.00	7,390.00	8,816.70	7,390.00	33.91	37.80	-90.00	1,003.80	-1,537.80	865.06	796.99	68.07	12.708		
8,800.00	7,390.00	8,916.70	7,390.00	34.89	38.53	-90.00	1,103.79	-1,538.67	865.40	795.45	69.94	12.373		
8,900.00	7,390.00	9,016.69	7,390.00	35.91	39.34	-90.00	1,203.79	-1,539.54	865.73	793.83	71.90	12.040		

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 4G-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 4G-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				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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		
9,000.00	7,390.00	9,116.69	7,390.00	36.96	40.21	-90.00	1,303.78	-1,540.42	866.06	792.11	73.95	11.712		
9,100.00	7,390.00	9,216.69	7,390.00	38.06	41.14	-90.00	1,403.78	-1,541.29	866.40	790.32	76.07	11.389		
9,200.00	7,390.00	9,316.69	7,390.00	39.18	42.11	-90.00	1,503.78	-1,542.16	866.73	788.46	78.27	11.074		
9,300.00	7,390.00	9,416.69	7,390.00	40.34	43.13	-90.00	1,603.77	-1,543.04	867.06	786.54	80.53	10.767		
9,400.00	7,390.00	9,516.69	7,390.00	41.52	44.19	-90.00	1,703.77	-1,543.91	867.40	784.55	82.85	10.470		
9,500.00	7,390.00	9,616.69	7,390.00	42.73	45.28	-90.00	1,803.76	-1,544.78	867.73	782.51	85.22	10.182		
9,600.00	7,390.00	9,716.69	7,390.00	43.96	46.41	-90.00	1,903.76	-1,545.65	868.06	780.41	87.65	9.904		
9,700.00	7,390.00	9,816.69	7,390.00	45.22	47.56	-90.00	2,003.75	-1,546.53	868.40	778.27	90.12	9.636		
9,800.00	7,390.00	9,916.69	7,390.00	46.49	48.74	-90.00	2,103.75	-1,547.40	868.73	776.09	92.64	9.377		
9,900.00	7,390.00	10,016.69	7,390.00	47.79	49.95	-90.00	2,203.75	-1,548.27	869.06	773.87	95.20	9.129		
10,000.00	7,390.00	10,116.69	7,390.00	49.10	51.17	-90.00	2,303.74	-1,549.14	869.40	771.61	97.79	8.891		
10,100.00	7,390.00	10,216.69	7,390.00	50.42	52.42	-90.00	2,403.74	-1,550.02	869.73	769.32	100.41	8.661		
10,200.00	7,390.00	10,316.69	7,390.00	51.76	53.69	-90.00	2,503.73	-1,550.89	870.06	766.99	103.07	8.441		
10,300.00	7,390.00	10,416.69	7,390.00	53.11	54.97	-90.00	2,603.73	-1,551.76	870.40	764.64	105.76	8.230		
10,400.00	7,390.00	10,516.69	7,390.00	54.48	56.27	-90.00	2,703.72	-1,552.63	870.73	762.26	108.47	8.027		
10,500.00	7,390.00	10,616.69	7,390.00	55.86	57.58	-90.00	2,803.72	-1,553.51	871.06	759.86	111.21	7.833		
10,600.00	7,390.00	10,716.69	7,390.00	57.24	58.91	-90.00	2,903.71	-1,554.38	871.40	757.43	113.97	7.646		
10,700.00	7,390.00	10,816.68	7,390.00	58.64	60.25	-90.00	3,003.71	-1,555.25	871.73	754.98	116.75	7.467		
10,800.00	7,390.00	10,916.68	7,390.00	60.05	61.60	-90.00	3,103.71	-1,556.13	872.06	752.52	119.55	7.295		
10,900.00	7,390.00	11,016.68	7,390.00	61.47	62.96	-90.00	3,203.70	-1,557.00	872.40	750.03	122.37	7.129		
11,000.00	7,390.00	11,116.68	7,390.00	62.89	64.33	-90.00	3,303.70	-1,557.87	872.73	747.53	125.20	6.971		
11,100.00	7,390.00	11,216.68	7,390.00	64.32	65.72	-90.00	3,403.69	-1,558.74	873.06	745.01	128.06	6.818		
11,200.00	7,390.00	11,316.68	7,390.00	65.76	67.11	-90.00	3,503.69	-1,559.62	873.40	742.47	130.92	6.671		
11,300.00	7,390.00	11,416.68	7,390.00	67.20	68.51	-90.00	3,603.68	-1,560.49	873.73	739.93	133.80	6.530		
11,400.00	7,390.00	11,516.68	7,390.00	68.66	69.92	-90.00	3,703.68	-1,561.36	874.06	737.36	136.70	6.394		
11,500.00	7,390.00	11,616.68	7,390.00	70.11	71.33	-90.00	3,803.68	-1,562.23	874.40	734.79	139.60	6.263		
11,600.00	7,390.00	11,716.68	7,390.00	71.58	72.76	-90.00	3,903.67	-1,563.11	874.73	732.21	142.52	6.137		
11,700.00	7,390.00	11,816.68	7,390.00	73.04	74.19	-90.00	4,003.67	-1,563.98	875.06	729.61	145.45	6.016		
11,800.00	7,390.00	11,916.68	7,390.00	74.52	75.62	-90.00	4,103.66	-1,564.85	875.40	727.00	148.39	5.899		
11,900.00	7,390.00	12,016.68	7,390.00	75.99	77.06	-90.00	4,203.66	-1,565.72	875.73	724.39	151.34	5.786		
12,000.00	7,390.00	12,134.20	7,390.00	77.47	78.75	-90.00	4,321.18	-1,565.40	874.89	720.74	154.15	5.676		
12,100.00	7,390.00	12,234.19	7,390.00	78.96	80.19	-90.00	4,421.16	-1,564.27	873.22	716.12	157.10	5.558		
12,200.00	7,390.00	12,334.18	7,390.00	80.45	81.62	-90.00	4,521.14	-1,563.14	871.55	711.49	160.06	5.445		
12,300.00	7,390.00	12,434.16	7,390.00	81.94	83.07	-90.00	4,621.12	-1,562.01	869.88	706.86	163.02	5.336		
12,400.00	7,390.00	12,534.15	7,390.00	83.44	84.51	-90.00	4,721.10	-1,560.88	868.21	702.22	166.00	5.230		
12,500.00	7,390.00	12,634.14	7,390.00	84.94	85.96	-90.00	4,821.08	-1,559.76	866.55	697.57	168.98	5.128		
12,600.00	7,390.00	12,734.12	7,390.00	86.44	87.42	-90.00	4,921.06	-1,558.63	864.88	692.91	171.96	5.029		
12,700.00	7,390.00	12,834.11	7,390.00	87.95	88.88	-90.00	5,021.04	-1,557.50	863.21	688.25	174.96	4.934		
12,800.00	7,390.00	12,934.09	7,390.00	89.46	90.34	-90.00	5,121.02	-1,556.37	861.54	683.58	177.96	4.841		
12,900.00	7,390.00	13,034.08	7,390.00	90.97	91.81	-90.00	5,221.00	-1,555.24	859.87	678.91	180.96	4.752		
13,000.00	7,390.00	13,134.07	7,390.00	92.48	93.28	-90.00	5,320.98	-1,554.11	858.20	674.23	183.97	4.665		
13,100.00	7,390.00	13,234.05	7,390.00	94.00	94.76	-90.00	5,420.96	-1,552.98	856.53	669.55	186.98	4.581		
13,200.00	7,390.00	13,334.04	7,390.00	95.52	96.23	-90.00	5,520.94	-1,551.85	854.86	664.86	190.00	4.499		
13,300.00	7,390.00	13,434.02	7,390.00	97.04	97.71	-90.00	5,620.92	-1,550.72	853.20	660.17	193.03	4.420		
13,400.00	7,390.00	13,534.01	7,390.00	98.56	99.20	-90.00	5,720.90	-1,549.59	851.53	655.47	196.06	4.343		
13,500.00	7,390.00	13,634.00	7,390.00	100.08	100.68	-90.00	5,820.88	-1,548.46	849.86	650.77	199.09	4.269		
13,600.00	7,390.00	13,733.98	7,390.00	101.61	102.17	-90.00	5,920.86	-1,547.33	848.19	646.06	202.12	4.196		
13,700.00	7,390.00	13,833.97	7,390.00	103.14	103.66	-90.00	6,020.84	-1,546.20	846.52	641.36	205.16	4.126		
13,748.73	7,390.00	13,882.69	7,390.00	103.89	104.39	-90.00	6,069.55	-1,545.65	845.71	639.06	206.65	4.093		
13,800.00	7,390.00	13,933.94	7,390.00	104.67	105.16	-90.00	6,120.80	-1,545.07	844.39	636.18	208.21	4.055		
13,821.47	7,390.00	13,955.40	7,390.00	105.01	105.48	-90.00	6,142.26	-1,544.83	843.57	634.70	208.87	4.039		
13,900.00	7,390.00	14,033.86	7,390.00	106.23	106.65	-90.00	6,220.71	-1,543.95	840.27	628.99	211.28	3.977		

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 4G-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 4G-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					
14,000.00	7,390.00	14,133.77	7,390.00	107.78	108.15	-90.00	6,320.62	-1,542.82	836.06	621.72	214.34	3.901					
14,100.00	7,390.00	14,233.68	7,390.00	109.34	109.65	-90.00	6,420.52	-1,541.69	831.85	614.44	217.41	3.826					
14,200.00	7,390.00	14,333.59	7,390.00	110.89	111.15	-90.00	6,520.43	-1,540.56	827.64	607.16	220.49	3.754					
14,300.00	7,390.00	14,433.50	7,390.00	112.45	112.65	-90.00	6,620.33	-1,539.43	823.44	599.87	223.56	3.683					
14,400.00	7,390.00	14,533.42	7,390.00	114.01	114.16	-90.00	6,720.24	-1,538.30	819.23	592.59	226.64	3.615					
14,500.00	7,390.00	14,633.33	7,390.00	115.57	115.66	-90.00	6,820.14	-1,537.17	815.02	585.30	229.73	3.548					
14,600.00	7,390.00	14,733.24	7,390.00	117.14	117.17	-90.00	6,920.05	-1,536.05	810.82	578.01	232.81	3.483					
14,625.12	7,390.00	14,745.41	7,390.00	117.53	117.35	-90.00	6,932.22	-1,535.91	809.86	576.12	233.74	3.465 SF					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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: 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	-89.42	0.20	-20.14	20.14					
100.00	100.00	100.00	100.00	0.14	0.14	-89.42	0.20	-20.14	20.14	19.87	0.28	72.976		
200.00	200.00	200.00	200.00	0.50	0.50	-89.42	0.20	-20.14	20.14	19.15	0.99	20.286		
300.00	300.00	300.00	300.00	0.85	0.85	-89.42	0.20	-20.14	20.14	18.43	1.71	11.780		
400.00	400.00	400.00	400.00	1.21	1.21	-89.42	0.20	-20.14	20.14	17.72	2.43	8.300		
500.00	500.00	500.00	500.00	1.57	1.57	-89.42	0.20	-20.14	20.14	17.00	3.14	6.407		
600.00	600.00	600.00	600.00	1.93	1.93	-89.42	0.20	-20.14	20.14	16.28	3.86	5.217 CC, ES		
700.00	700.00	699.31	699.29	2.29	2.28	-91.08	-0.41	-21.75	21.77	17.19	4.57	4.758		
800.00	800.00	798.38	798.22	2.65	2.62	-94.83	-2.25	-26.56	26.71	21.42	5.29	5.047		
900.00	899.98	897.13	896.59	2.99	2.96	35.80	-5.29	-34.52	33.67	27.67	6.00	5.611		
1,000.00	999.84	995.60	994.34	3.33	3.32	35.97	-9.53	-45.62	41.16	34.46	6.70	6.144		
1,100.00	1,099.45	1,093.77	1,091.33	3.67	3.70	37.45	-14.95	-59.79	49.17	41.77	7.40	6.645		
1,204.08	1,202.74	1,196.71	1,192.52	4.04	4.11	39.95	-21.69	-77.44	57.58	49.45	8.12	7.087		
1,300.00	1,297.71	1,292.34	1,286.47	4.39	4.50	42.70	-28.07	-94.14	64.43	55.63	8.81	7.317		
1,400.00	1,396.72	1,392.04	1,384.41	4.77	4.92	45.00	-34.72	-111.55	71.70	62.17	9.53	7.520		
1,500.00	1,495.72	1,491.74	1,482.35	5.15	5.35	46.88	-41.37	-128.95	79.07	68.79	10.28	7.693		
1,600.00	1,594.73	1,591.44	1,580.29	5.54	5.78	48.44	-48.03	-146.36	86.51	75.47	11.03	7.840		
1,700.00	1,693.74	1,691.14	1,678.23	5.93	6.22	49.75	-54.68	-163.77	94.00	82.20	11.80	7.966		
1,800.00	1,792.74	1,790.83	1,776.17	6.32	6.65	50.86	-61.33	-181.17	101.53	88.95	12.57	8.074		
1,900.00	1,891.75	1,890.53	1,874.11	6.72	7.10	51.83	-67.98	-198.58	109.09	95.74	13.36	8.168		
2,000.00	1,990.76	1,990.23	1,972.05	7.12	7.54	52.66	-74.63	-215.99	116.68	102.54	14.14	8.251		
2,100.00	2,089.76	2,089.93	2,070.00	7.52	7.99	53.40	-81.28	-233.39	124.29	109.36	14.93	8.323		
2,200.00	2,188.77	2,189.63	2,167.94	7.92	8.43	54.05	-87.93	-250.80	131.92	116.19	15.73	8.387		
2,300.00	2,287.78	2,289.32	2,265.88	8.33	8.88	54.62	-94.58	-268.21	139.57	123.04	16.53	8.443		
2,400.00	2,386.78	2,389.02	2,363.82	8.74	9.33	55.14	-101.24	-285.61	147.23	129.89	17.33	8.494		
2,500.00	2,485.79	2,488.72	2,461.76	9.14	9.78	55.61	-107.89	-303.02	154.90	136.76	18.14	8.539		
2,600.00	2,584.80	2,588.42	2,559.70	9.55	10.24	56.03	-114.54	-320.43	162.58	143.63	18.95	8.581		
2,700.00	2,683.81	2,688.12	2,657.64	9.96	10.69	56.42	-121.19	-337.83	170.26	150.50	19.76	8.618		
2,800.00	2,782.81	2,787.81	2,755.58	10.37	11.14	56.77	-127.84	-355.24	177.95	157.39	20.57	8.652		
2,900.00	2,881.82	2,887.51	2,853.52	10.78	11.59	57.09	-134.49	-372.65	185.65	164.27	21.38	8.682		
3,000.00	2,980.83	2,987.21	2,951.47	11.19	12.05	57.39	-141.14	-390.05	193.36	171.16	22.20	8.711		
3,100.00	3,079.83	3,086.91	3,049.41	11.60	12.50	57.66	-147.80	-407.46	201.07	178.05	23.01	8.737		
3,200.00	3,178.84	3,186.61	3,147.35	12.02	12.96	57.92	-154.45	-424.87	208.78	184.95	23.83	8.761		
3,300.00	3,277.85	3,286.30	3,245.29	12.43	13.41	58.15	-161.10	-442.27	216.50	191.85	24.65	8.783		
3,400.00	3,376.85	3,386.00	3,343.23	12.84	13.87	58.37	-167.75	-459.68	224.22	198.75	25.47	8.804		
3,500.00	3,475.86	3,485.70	3,441.17	13.25	14.33	58.58	-174.40	-477.09	231.94	205.65	26.29	8.823		
3,600.00	3,574.87	3,585.40	3,539.11	13.67	14.78	58.77	-181.05	-494.49	239.67	212.56	27.11	8.841		
3,700.00	3,673.87	3,685.09	3,637.05	14.08	15.24	58.95	-187.70	-511.90	247.40	219.47	27.93	8.857		
3,800.00	3,772.88	3,784.79	3,734.99	14.49	15.70	59.12	-194.35	-529.31	255.13	226.38	28.75	8.873		
3,900.00	3,871.89	3,884.49	3,832.93	14.91	16.15	59.27	-201.01	-546.71	262.86	233.29	29.58	8.887		
4,000.00	3,970.90	3,984.19	3,930.88	15.32	16.61	59.42	-207.66	-564.12	270.60	240.20	30.40	8.901		
4,100.00	4,069.90	4,083.89	4,028.82	15.74	17.07	59.57	-214.31	-581.53	278.34	247.11	31.23	8.914		
4,200.00	4,168.91	4,183.58	4,126.76	16.15	17.53	59.70	-220.96	-598.93	286.08	254.03	32.05	8.926		
4,300.00	4,267.92	4,283.28	4,224.70	16.57	17.98	59.83	-227.61	-616.34	293.82	260.94	32.87	8.938		
4,400.00	4,366.92	4,382.98	4,322.64	16.98	18.44	59.95	-234.26	-633.75	301.56	267.86	33.70	8.948		
4,500.00	4,465.93	4,482.68	4,420.58	17.40	18.90	60.06	-240.91	-651.15	309.30	274.77	34.53	8.959		
4,600.00	4,564.94	4,582.38	4,518.52	17.81	19.36	60.17	-247.57	-668.56	317.04	281.69	35.35	8.968		
4,700.00	4,663.94	4,682.07	4,616.46	18.23	19.81	60.27	-254.22	-685.97	324.79	288.61	36.18	8.978		
4,800.00	4,762.95	4,781.77	4,714.40	18.64	20.27	60.37	-260.87	-703.37	332.54	295.53	37.00	8.986		
4,900.00	4,861.96	4,881.47	4,812.35	19.06	20.73	60.47	-267.52	-720.78	340.28	302.45	37.83	8.995		
5,000.00	4,960.96	4,981.17	4,910.29	19.48	21.19	60.55	-274.17	-738.19	348.03	309.37	38.66	9.003		
5,100.00	5,059.97	5,080.87	5,008.23	19.89	21.65	60.64	-280.82	-755.59	355.78	316.29	39.49	9.010		

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

Cathedral Energy Services

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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 4G-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	
5,200.00	5,158.98	5,180.56	5,106.17	20.31	22.11	60.72	-287.47	-773.00	363.53	323.21	40.31	9.018		
5,300.00	5,257.99	5,280.26	5,204.11	20.72	22.57	60.80	-294.12	-790.41	371.28	330.14	41.14	9.025		
5,400.00	5,356.99	5,379.96	5,302.05	21.14	23.02	60.88	-300.78	-807.81	379.03	337.06	41.97	9.031		
5,500.00	5,456.00	5,479.66	5,399.99	21.56	23.48	60.95	-307.43	-825.22	386.78	343.98	42.80	9.038		
5,600.00	5,555.01	5,579.36	5,497.93	21.97	23.94	61.02	-314.08	-842.63	394.53	350.91	43.63	9.044		
5,700.00	5,654.01	5,679.05	5,595.87	22.39	24.40	61.09	-320.73	-860.03	402.29	357.83	44.45	9.049		
5,800.00	5,753.02	5,778.75	5,693.81	22.81	24.86	61.15	-327.38	-877.44	410.04	364.76	45.28	9.055		
5,900.00	5,852.03	5,878.45	5,791.76	23.22	25.32	61.21	-334.03	-894.85	417.79	371.68	46.11	9.060		
6,000.00	5,951.03	5,978.15	5,889.70	23.64	25.78	61.27	-340.68	-912.25	425.55	378.61	46.94	9.066		
6,100.00	6,050.04	6,077.85	5,987.64	24.06	26.24	61.33	-347.34	-929.66	433.30	385.53	47.77	9.071		
6,200.00	6,149.05	6,177.54	6,085.58	24.47	26.70	61.39	-353.99	-947.07	441.06	392.46	48.60	9.075		
6,300.00	6,248.05	6,277.24	6,183.52	24.89	27.16	61.44	-360.64	-964.47	448.81	399.38	49.43	9.080		
6,400.00	6,347.06	6,376.94	6,281.46	25.31	27.61	61.49	-367.29	-981.88	456.57	406.31	50.26	9.084		
6,500.00	6,446.07	6,476.64	6,379.40	25.72	28.07	61.54	-373.94	-999.29	464.32	413.23	51.09	9.089		
6,600.00	6,545.07	6,576.34	6,477.34	26.14	28.53	61.59	-380.59	-1,016.69	472.08	420.16	51.92	9.093		
6,665.43	6,609.86	6,641.57	6,541.43	26.41	28.83	61.62	-384.94	-1,028.08	477.15	424.69	52.46	9.096		
6,700.00	6,644.15	6,676.04	6,575.30	26.55	28.99	43.64	-387.24	-1,034.10	479.56	426.83	52.73	9.094		
6,750.00	6,693.86	6,725.83	6,624.21	26.74	29.22	6.86	-390.57	-1,042.79	482.08	429.01	53.07	9.083		
6,800.00	6,743.50	6,775.31	6,672.81	26.90	29.45	-23.07	-393.87	-1,051.43	483.52	430.17	53.35	9.064		
6,850.00	6,792.82	6,824.24	6,720.88	27.05	29.68	-39.85	-397.13	-1,059.98	484.01	430.45	53.56	9.037		
6,900.00	6,841.57	6,866.20	6,762.14	27.19	29.86	-49.55	-399.12	-1,067.31	484.02	430.38	53.65	9.023		
6,950.00	6,889.53	6,907.33	6,802.63	27.31	30.04	-55.89	-398.72	-1,074.53	484.14	430.46	53.69	9.018		
7,000.00	6,936.45	6,950.00	6,844.53	27.41	30.22	-60.56	-395.81	-1,082.00	484.42	430.71	53.72	9.018		
7,050.00	6,982.12	6,991.19	6,884.75	27.51	30.37	-64.22	-390.61	-1,089.19	484.90	431.20	53.70	9.030		
7,100.00	7,026.30	7,034.02	6,926.18	27.59	30.52	-67.33	-382.71	-1,096.62	485.60	431.90	53.70	9.043		
7,150.00	7,068.78	7,077.53	6,967.70	27.66	30.66	-70.08	-372.14	-1,104.07	486.56	432.86	53.71	9.060		
7,200.00	7,109.36	7,121.76	7,009.20	27.71	30.79	-72.58	-358.77	-1,111.53	487.82	434.09	53.73	9.079		
7,250.00	7,147.83	7,166.80	7,050.53	27.76	30.91	-74.91	-342.52	-1,118.98	489.39	435.60	53.78	9.099		
7,300.00	7,184.01	7,212.71	7,091.54	27.79	31.03	-77.10	-323.27	-1,126.39	491.28	437.42	53.86	9.121		
7,350.00	7,217.73	7,259.56	7,132.05	27.82	31.13	-79.21	-300.92	-1,133.72	493.52	439.56	53.96	9.146		
7,400.00	7,248.81	7,307.44	7,171.86	27.83	31.23	-81.23	-275.35	-1,140.95	496.10	442.01	54.08	9.173		
7,450.00	7,277.12	7,356.42	7,210.76	27.84	31.31	-83.18	-246.44	-1,148.03	499.01	444.79	54.22	9.203		
7,500.00	7,302.50	7,406.60	7,248.49	27.85	31.38	-85.08	-214.11	-1,154.93	502.24	447.88	54.36	9.239		
7,550.00	7,324.84	7,458.06	7,284.77	27.84	31.45	-86.92	-178.24	-1,161.58	505.76	451.27	54.49	9.282		
7,600.00	7,344.02	7,510.89	7,319.27	27.84	31.50	-88.70	-138.76	-1,167.94	509.54	454.94	54.60	9.332		
7,650.00	7,359.96	7,565.19	7,351.65	27.84	31.55	-90.43	-95.61	-1,173.94	513.54	458.84	54.69	9.390		
7,700.00	7,372.58	7,621.03	7,381.50	27.84	31.58	-92.10	-48.75	-1,179.51	517.68	462.94	54.75	9.456		
7,750.00	7,381.81	7,678.51	7,408.36	27.86	31.61	-93.71	1.79	-1,184.57	521.92	467.15	54.77	9.529		
7,800.00	7,387.61	7,737.69	7,431.76	27.92	31.64	-95.25	55.95	-1,189.03	526.16	471.40	54.76	9.609		
7,850.00	7,389.95	7,798.63	7,451.17	28.02	31.67	-96.71	113.57	-1,192.80	530.34	475.61	54.73	9.690		
7,858.73	7,390.00	7,809.45	7,454.10	28.04	31.67	-96.96	123.97	-1,193.38	531.05	476.32	54.73	9.703		
7,900.00	7,390.00	7,861.70	7,466.10	28.17	31.70	-98.21	174.76	-1,195.79	534.05	479.32	54.73	9.758		
8,000.00	7,390.00	7,993.75	7,479.93	28.61	31.81	-99.63	305.85	-1,198.96	537.57	482.37	55.20	9.738		
8,100.00	7,390.00	8,096.38	7,480.00	29.16	31.98	-99.64	408.49	-1,199.53	537.59	481.47	56.12	9.579		
8,200.00	7,390.00	8,196.38	7,480.00	29.79	32.25	-99.64	508.48	-1,200.07	537.59	480.39	57.20	9.398		
8,300.00	7,390.00	8,296.38	7,480.00	30.50	32.63	-99.64	608.48	-1,200.61	537.60	479.17	58.43	9.201		
8,400.00	7,390.00	8,396.38	7,480.00	31.27	33.12	-99.64	708.48	-1,201.15	537.60	477.80	59.80	8.990		
8,500.00	7,390.00	8,496.38	7,480.00	32.10	33.72	-99.64	808.48	-1,201.70	537.60	476.31	61.29	8.771		
8,600.00	7,390.00	8,596.38	7,480.00	32.98	34.41	-99.64	908.48	-1,202.24	537.60	474.69	62.91	8.545		
8,700.00	7,390.00	8,696.38	7,480.00	33.91	35.18	-99.64	1,008.48	-1,202.78	537.60	472.96	64.64	8.316		
8,800.00	7,390.00	8,796.38	7,480.00	34.89	36.01	-99.64	1,108.48	-1,203.32	537.61	471.13	66.48	8.087		
8,900.00	7,390.00	8,896.38	7,480.00	35.91	36.90	-99.64	1,208.47	-1,203.86	537.61	469.20	68.41	7.859		

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

Cathedral Energy Services

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Well Error:	0.00usft	Output errors are at	2.00 sigma
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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		
9,000.00	7,390.00	8,996.38	7,480.00	36.96	37.84	-99.64	1,308.47	-1,204.40	537.61	467.19	70.42	7.634		
9,100.00	7,390.00	9,096.38	7,480.00	38.06	38.83	-99.64	1,408.47	-1,204.94	537.61	465.09	72.52	7.413		
9,200.00	7,390.00	9,196.38	7,480.00	39.18	39.86	-99.64	1,508.47	-1,205.48	537.61	462.92	74.69	7.198		
9,300.00	7,390.00	9,296.38	7,480.00	40.34	40.92	-99.64	1,608.47	-1,206.03	537.62	460.69	76.93	6.989		
9,400.00	7,390.00	9,396.38	7,480.00	41.52	42.02	-99.64	1,708.47	-1,206.57	537.62	458.39	79.23	6.786		
9,500.00	7,390.00	9,496.38	7,480.00	42.73	43.15	-99.64	1,808.47	-1,207.11	537.62	456.04	81.58	6.590		
9,600.00	7,390.00	9,596.38	7,480.00	43.96	44.31	-99.64	1,908.46	-1,207.65	537.62	453.63	83.99	6.401		
9,700.00	7,390.00	9,696.38	7,480.00	45.22	45.50	-99.64	2,008.46	-1,208.19	537.62	451.18	86.44	6.219		
9,800.00	7,390.00	9,796.38	7,480.00	46.49	46.71	-99.64	2,108.46	-1,208.73	537.63	448.69	88.94	6.045		
9,900.00	7,390.00	9,896.38	7,480.00	47.79	47.94	-99.64	2,208.46	-1,209.27	537.63	446.15	91.48	5.877		
10,000.00	7,390.00	9,996.38	7,480.00	49.10	49.19	-99.64	2,308.46	-1,209.82	537.63	443.58	94.05	5.716		
10,100.00	7,390.00	10,096.38	7,480.00	50.42	50.46	-99.64	2,408.46	-1,210.36	537.63	440.97	96.66	5.562		
10,200.00	7,390.00	10,196.38	7,480.00	51.76	51.74	-99.64	2,508.46	-1,210.90	537.63	438.34	99.29	5.415		
10,300.00	7,390.00	10,296.38	7,480.00	53.11	53.05	-99.64	2,608.45	-1,211.44	537.63	435.67	101.96	5.273		
10,400.00	7,390.00	10,396.38	7,480.00	54.48	54.37	-99.64	2,708.45	-1,211.98	537.64	432.98	104.65	5.137		
10,500.00	7,390.00	10,496.38	7,480.00	55.86	55.70	-99.64	2,808.45	-1,212.52	537.64	430.27	107.37	5.007		
10,600.00	7,390.00	10,596.38	7,480.00	57.24	57.04	-99.64	2,908.45	-1,213.06	537.64	427.53	110.11	4.883		
10,700.00	7,390.00	10,696.38	7,480.00	58.64	58.40	-99.64	3,008.45	-1,213.60	537.64	424.77	112.87	4.763		
10,800.00	7,390.00	10,796.38	7,480.00	60.05	59.77	-99.64	3,108.45	-1,214.15	537.64	421.99	115.65	4.649		
10,900.00	7,390.00	10,896.38	7,480.00	61.47	61.15	-99.64	3,208.45	-1,214.69	537.65	419.20	118.45	4.539		
11,000.00	7,390.00	10,996.38	7,480.00	62.89	62.54	-99.64	3,308.44	-1,215.23	537.65	416.38	121.27	4.434		
11,100.00	7,390.00	11,096.38	7,480.00	64.32	63.93	-99.64	3,408.44	-1,215.77	537.65	413.55	124.10	4.333		
11,200.00	7,390.00	11,196.38	7,480.00	65.76	65.34	-99.64	3,508.44	-1,216.31	537.65	410.71	126.94	4.235		
11,300.00	7,390.00	11,296.38	7,480.00	67.20	66.75	-99.64	3,608.44	-1,216.85	537.65	407.85	129.80	4.142		
11,400.00	7,390.00	11,396.38	7,480.00	68.66	68.18	-99.64	3,708.44	-1,217.39	537.66	404.98	132.67	4.052		
11,500.00	7,390.00	11,496.38	7,480.00	70.11	69.61	-99.64	3,808.44	-1,217.93	537.66	402.10	135.56	3.966		
11,600.00	7,390.00	11,596.38	7,480.00	71.58	71.04	-99.64	3,908.44	-1,218.48	537.66	399.21	138.45	3.883		
11,700.00	7,390.00	11,696.38	7,480.00	73.04	72.48	-99.64	4,008.43	-1,219.02	537.66	396.30	141.36	3.804		
11,800.00	7,390.00	11,796.38	7,480.00	74.52	73.93	-99.64	4,108.43	-1,219.56	537.66	393.39	144.27	3.727		
11,900.00	7,390.00	11,896.38	7,480.00	75.99	75.38	-99.64	4,208.43	-1,220.10	537.67	390.47	147.20	3.653		
12,000.00	7,390.00	12,001.10	7,480.00	77.47	76.90	-99.65	4,313.15	-1,219.92	536.95	386.90	150.05	3.579		
12,100.00	7,390.00	12,101.10	7,480.00	78.96	78.36	-99.67	4,413.14	-1,219.57	536.07	383.10	152.98	3.504		
12,200.00	7,390.00	12,201.09	7,480.00	80.45	79.82	-99.68	4,513.14	-1,219.22	535.20	379.29	155.91	3.433		
12,300.00	7,390.00	12,301.09	7,480.00	81.94	81.28	-99.70	4,613.13	-1,218.87	534.32	375.47	158.85	3.364		
12,400.00	7,390.00	12,401.09	7,480.00	83.44	82.75	-99.71	4,713.13	-1,218.52	533.45	371.65	161.80	3.297		
12,500.00	7,390.00	12,501.08	7,480.00	84.94	84.22	-99.73	4,813.12	-1,218.17	532.57	367.82	164.75	3.233		
12,600.00	7,390.00	12,601.08	7,480.00	86.44	85.70	-99.75	4,913.12	-1,217.82	531.69	363.98	167.71	3.170		
12,700.00	7,390.00	12,701.07	7,480.00	87.95	87.18	-99.76	5,013.11	-1,217.47	530.82	360.14	170.68	3.110		
12,800.00	7,390.00	12,801.07	7,480.00	89.46	88.66	-99.78	5,113.11	-1,217.12	529.94	356.29	173.65	3.052		
12,900.00	7,390.00	12,901.07	7,480.00	90.97	90.15	-99.79	5,213.11	-1,216.78	529.07	352.44	176.63	2.995		
13,000.00	7,390.00	13,001.06	7,480.00	92.48	91.64	-99.81	5,313.10	-1,216.43	528.19	348.58	179.61	2.941		
13,050.19	7,390.00	13,046.63	7,480.00	93.24	92.32	-99.82	5,358.67	-1,216.34	527.85	346.66	181.19	2.913		
13,100.00	7,390.00	13,091.03	7,480.00	94.00	92.99	-99.81	5,403.07	-1,216.94	528.23	345.47	182.76	2.890		
13,200.00	7,390.00	13,191.03	7,480.00	95.52	94.50	-99.79	5,503.05	-1,218.52	529.25	343.46	185.79	2.849		
13,300.00	7,390.00	13,291.02	7,480.00	97.04	96.02	-99.77	5,603.03	-1,220.10	530.28	341.46	188.82	2.808		
13,400.00	7,390.00	13,391.02	7,480.00	98.56	97.53	-99.75	5,703.01	-1,221.68	531.30	339.45	191.85	2.769		
13,500.00	7,390.00	13,491.01	7,480.00	100.08	99.05	-99.73	5,803.00	-1,223.25	532.32	337.43	194.89	2.731		
13,600.00	7,390.00	13,591.01	7,480.00	101.61	100.58	-99.72	5,902.98	-1,224.83	533.35	335.42	197.93	2.695		
13,700.00	7,390.00	13,691.00	7,480.00	103.14	102.10	-99.70	6,002.96	-1,226.41	534.37	333.39	200.98	2.659		
13,748.73	7,390.00	13,739.72	7,480.00	103.89	102.85	-99.69	6,051.68	-1,227.18	534.87	332.41	202.46	2.642		
13,800.00	7,390.00	13,791.00	7,480.00	104.67	103.63	-99.69	6,102.94	-1,227.99	534.94	330.92	204.03	2.622		
13,821.47	7,390.00	13,812.47	7,480.00	105.01	103.96	-99.69	6,124.41	-1,228.33	534.71	330.02	204.68	2.612		

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 4G-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 4G-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: 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			
13,900.00	7,390.00	13,890.99	7,480.00	106.23	105.16	-99.71	6,202.92	-1,229.57	533.54	326.47	207.07	2.577				
14,000.00	7,390.00	13,990.98	7,480.00	107.78	106.69	-99.74	6,302.90	-1,231.14	532.07	321.95	210.12	2.532				
14,100.00	7,390.00	14,090.96	7,480.00	109.34	108.22	-99.77	6,402.87	-1,232.72	530.59	317.42	213.17	2.489				
14,200.00	7,390.00	14,190.95	7,480.00	110.89	109.76	-99.79	6,502.85	-1,234.30	529.11	312.89	216.22	2.447				
14,300.00	7,390.00	14,290.94	7,480.00	112.45	111.29	-99.82	6,602.83	-1,235.88	527.63	308.36	219.27	2.406				
14,400.00	7,390.00	14,399.10	7,480.00	114.01	112.94	-99.88	6,710.99	-1,236.13	524.78	302.60	222.18	2.362				
14,500.00	7,390.00	14,499.05	7,480.00	115.57	114.47	-99.94	6,810.94	-1,236.13	521.75	296.55	225.20	2.317				
14,600.00	7,390.00	14,599.01	7,480.00	117.14	116.00	-100.00	6,910.89	-1,236.13	518.72	290.49	228.23	2.273				
14,625.12	7,390.00	14,622.60	7,480.00	117.53	116.37	-100.01	6,934.48	-1,236.13	517.96	288.94	229.02	2.262 SF				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	-0.04	-10.07	10.07				
100.00	100.00	100.00	100.00	0.14	0.14	-90.25	-0.04	-10.07	10.07	9.79	0.28	36.483	
200.00	200.00	200.00	200.00	0.50	0.50	-90.25	-0.04	-10.07	10.07	9.08	0.99	10.142 CC, ES	
300.00	300.00	299.84	299.82	0.85	0.84	-98.95	-1.68	-10.67	10.80	9.09	1.71	6.332	
400.00	400.00	399.37	399.22	1.21	1.19	-116.34	-6.29	-12.70	14.20	11.73	2.47	5.751	
500.00	500.00	498.47	498.01	1.57	1.54	-124.46	-12.18	-17.74	21.61	18.36	3.25	6.647	
600.00	600.00	597.00	595.95	1.93	1.92	-126.22	-19.03	-25.98	32.46	28.44	4.02	8.074	
700.00	700.00	695.13	693.11	2.29	2.30	-125.72	-26.81	-37.28	46.43	41.67	4.76	9.761	
800.00	800.00	794.02	790.91	2.65	2.70	-125.18	-34.91	-49.53	61.27	55.84	5.43	11.275	
900.00	899.98	893.15	888.93	2.99	3.10	8.25	-43.03	-61.80	74.40	68.30	6.11	12.186	
1,000.00	999.84	992.66	987.35	3.33	3.51	8.94	-51.18	-74.13	84.11	77.34	6.78	12.409	
1,100.00	1,099.45	1,092.45	1,086.03	3.67	3.93	9.86	-59.36	-86.49	90.41	82.94	7.47	12.108	
1,204.08	1,202.74	1,196.46	1,188.88	4.04	4.36	11.12	-67.88	-99.37	93.34	85.15	8.20	11.389	
1,300.00	1,297.71	1,292.35	1,283.71	4.39	4.76	12.45	-75.73	-111.25	94.38	85.51	8.88	10.632	
1,400.00	1,396.72	1,392.32	1,382.57	4.77	5.18	13.80	-83.92	-123.63	95.52	85.93	9.60	9.955	
1,500.00	1,495.72	1,492.29	1,481.43	5.15	5.60	15.12	-92.11	-136.01	96.71	86.39	10.32	9.371	
1,600.00	1,594.73	1,592.26	1,580.29	5.54	6.02	16.40	-100.30	-148.39	97.95	86.90	11.05	8.864	
1,700.00	1,693.74	1,692.23	1,679.15	5.93	6.44	17.66	-108.49	-160.77	99.24	87.46	11.79	8.420	
1,800.00	1,792.74	1,792.19	1,778.01	6.32	6.87	18.88	-116.68	-173.15	100.58	88.05	12.53	8.029	
1,900.00	1,891.75	1,892.16	1,876.87	6.72	7.29	20.07	-124.87	-185.53	101.96	88.68	13.27	7.682	
2,000.00	1,990.76	1,992.13	1,975.73	7.12	7.71	21.22	-133.06	-197.92	103.38	89.36	14.02	7.373	
2,100.00	2,089.76	2,092.10	2,074.59	7.52	8.13	22.35	-141.25	-210.30	104.84	90.07	14.77	7.096	
2,200.00	2,188.77	2,192.07	2,173.45	7.92	8.56	23.44	-149.44	-222.68	106.34	90.81	15.53	6.847	
2,300.00	2,287.78	2,292.04	2,272.31	8.33	8.98	24.50	-157.63	-235.06	107.88	91.59	16.29	6.621	
2,400.00	2,386.78	2,392.00	2,371.17	8.74	9.40	25.53	-165.82	-247.44	109.46	92.40	17.06	6.417	
2,500.00	2,485.79	2,491.97	2,470.03	9.14	9.82	26.54	-174.01	-259.82	111.07	93.24	17.83	6.231	
2,600.00	2,584.80	2,591.94	2,568.89	9.55	10.25	27.51	-182.20	-272.20	112.71	94.11	18.60	6.061	
2,700.00	2,683.81	2,691.91	2,667.76	9.96	10.67	28.45	-190.39	-284.59	114.39	95.01	19.37	5.905	
2,800.00	2,782.81	2,791.88	2,766.62	10.37	11.09	29.37	-198.58	-296.97	116.09	95.94	20.15	5.761	
2,900.00	2,881.82	2,891.85	2,865.48	10.78	11.52	30.26	-206.77	-309.35	117.83	96.89	20.93	5.629	
3,000.00	2,980.83	2,991.82	2,964.34	11.19	11.94	31.13	-214.96	-321.73	119.59	97.87	21.71	5.507	
3,100.00	3,079.83	3,091.78	3,063.20	11.60	12.37	31.97	-223.15	-334.11	121.38	98.87	22.50	5.394	
3,200.00	3,178.84	3,191.75	3,162.06	12.02	12.79	32.78	-231.34	-346.49	123.19	99.90	23.29	5.289	
3,300.00	3,277.85	3,291.72	3,260.92	12.43	13.21	33.57	-239.53	-358.87	125.03	100.95	24.08	5.192	
3,400.00	3,376.85	3,391.69	3,359.78	12.84	13.64	34.34	-247.72	-371.26	126.89	102.01	24.87	5.101	
3,500.00	3,475.86	3,491.66	3,458.64	13.25	14.06	35.09	-255.91	-383.64	128.77	103.10	25.67	5.016	
3,600.00	3,574.87	3,591.63	3,557.50	13.67	14.48	35.81	-264.10	-396.02	130.67	104.21	26.47	4.937	
3,700.00	3,673.87	3,691.59	3,656.36	14.08	14.91	36.51	-272.29	-408.40	132.60	105.33	27.27	4.863	
3,800.00	3,772.88	3,791.56	3,755.22	14.49	15.33	37.20	-280.48	-420.78	134.54	106.47	28.07	4.793	
3,900.00	3,871.89	3,891.53	3,854.08	14.91	15.76	37.86	-288.66	-433.16	136.51	107.63	28.87	4.728	
4,000.00	3,970.90	3,991.50	3,952.94	15.32	16.18	38.50	-296.85	-445.54	138.49	108.81	29.68	4.666	
4,100.00	4,069.90	4,091.47	4,051.80	15.74	16.60	39.13	-305.04	-457.93	140.48	110.00	30.49	4.608	
4,200.00	4,168.91	4,191.44	4,150.66	16.15	17.03	39.74	-313.23	-470.31	142.50	111.20	31.29	4.554	
4,300.00	4,267.92	4,291.40	4,249.52	16.57	17.45	40.33	-321.42	-482.69	144.53	112.42	32.10	4.502	
4,400.00	4,366.92	4,391.37	4,348.38	16.98	17.88	40.91	-329.61	-495.07	146.57	113.66	32.91	4.453	
4,500.00	4,465.93	4,491.34	4,447.24	17.40	18.30	41.47	-337.80	-507.45	148.63	114.90	33.73	4.407	
4,600.00	4,564.94	4,591.31	4,546.10	17.81	18.73	42.01	-345.99	-519.83	150.70	116.16	34.54	4.363	
4,700.00	4,663.94	4,691.28	4,644.96	18.23	19.15	42.54	-354.18	-532.21	152.79	117.43	35.35	4.322	
4,800.00	4,762.95	4,791.25	4,743.82	18.64	19.57	43.05	-362.37	-544.60	154.88	118.71	36.17	4.282	
4,900.00	4,861.96	4,891.22	4,842.68	19.06	20.00	43.55	-370.56	-556.98	156.99	120.01	36.99	4.245	
5,000.00	4,960.96	4,991.18	4,941.54	19.48	20.42	44.04	-378.75	-569.36	159.12	121.31	37.81	4.209	
5,100.00	5,059.97	5,091.15	5,040.40	19.89	20.85	44.52	-386.94	-581.74	161.25	122.63	38.62	4.175	

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 4G-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 4G-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
5,200.00	5,158.98	5,191.12	5,139.26	20.31	21.27	44.98	-395.13	-594.12	163.39	123.95	39.44	4.142	
5,300.00	5,257.99	5,291.09	5,238.12	20.72	21.70	45.43	-403.32	-606.50	165.55	125.28	40.26	4.112	
5,400.00	5,356.99	5,391.06	5,336.98	21.14	22.12	45.87	-411.51	-618.88	167.71	126.63	41.08	4.082	
5,500.00	5,456.00	5,491.03	5,435.84	21.56	22.54	46.30	-419.70	-631.27	169.89	127.98	41.91	4.054	
5,600.00	5,555.01	5,590.99	5,534.70	21.97	22.97	46.71	-427.89	-643.65	172.07	129.34	42.73	4.027	
5,700.00	5,654.01	5,690.96	5,633.56	22.39	23.39	47.12	-436.08	-656.03	174.26	130.71	43.55	4.001	
5,800.00	5,753.02	5,790.93	5,732.42	22.81	23.82	47.52	-444.27	-668.41	176.46	132.08	44.38	3.976	
5,900.00	5,852.03	5,890.90	5,831.28	23.22	24.24	47.90	-452.46	-680.79	178.67	133.47	45.20	3.953	
6,000.00	5,951.03	5,990.87	5,930.14	23.64	24.67	48.28	-460.65	-693.17	180.89	134.86	46.03	3.930	
6,100.00	6,050.04	6,090.84	6,029.00	24.06	25.09	48.65	-468.84	-705.55	183.11	136.26	46.85	3.908	
6,200.00	6,149.05	6,190.80	6,127.86	24.47	25.51	49.01	-477.03	-717.94	185.34	137.67	47.68	3.887	
6,300.00	6,248.05	6,290.77	6,226.72	24.89	25.94	49.36	-485.22	-730.32	187.58	139.08	48.50	3.867	
6,400.00	6,347.06	6,390.74	6,325.58	25.31	26.36	49.70	-493.41	-742.70	189.83	140.50	49.33	3.848	
6,500.00	6,446.07	6,490.71	6,424.44	25.72	26.79	50.03	-501.60	-755.08	192.08	141.92	50.16	3.829	
6,600.00	6,545.07	6,590.68	6,523.30	26.14	27.21	50.36	-509.79	-767.46	194.34	143.35	50.99	3.812	
6,665.43	6,609.86	6,656.09	6,587.98	26.41	27.49	50.57	-515.15	-775.56	195.82	144.29	51.53	3.800	
6,700.00	6,644.15	6,690.65	6,622.16	26.55	27.64	32.40	-517.98	-779.84	196.48	144.70	51.79	3.794	
6,750.00	6,693.86	6,740.50	6,671.46	26.74	27.85	-5.11	-522.06	-786.02	197.06	144.99	52.07	3.785	
6,800.00	6,743.50	6,790.00	6,720.41	26.90	28.06	-36.32	-526.12	-792.15	197.36	145.13	52.23	3.779	
6,850.00	6,792.82	6,838.90	6,768.76	27.05	28.27	-54.88	-530.12	-798.20	197.74	145.46	52.28	3.782	
6,900.00	6,841.57	6,886.95	6,816.28	27.19	28.47	-67.07	-534.06	-804.15	198.73	146.51	52.22	3.805	
6,950.00	6,889.53	6,934.53	6,863.36	27.31	28.67	-76.51	-537.66	-810.06	200.99	148.89	52.10	3.858	
7,000.00	6,936.45	6,983.41	6,911.84	27.41	28.86	-84.25	-538.58	-816.18	204.73	152.73	52.00	3.937	
7,050.00	6,982.12	7,033.55	6,961.50	27.51	29.04	-90.83	-536.07	-822.52	209.88	157.94	51.94	4.041	
7,100.00	7,026.30	7,085.05	7,012.19	27.59	29.20	-96.57	-529.85	-829.05	216.31	164.42	51.89	4.169	
7,150.00	7,068.78	7,138.01	7,063.71	27.66	29.35	-101.66	-519.63	-835.75	223.84	172.04	51.80	4.321	
7,200.00	7,109.36	7,192.55	7,115.82	27.71	29.49	-106.19	-505.14	-842.61	232.30	180.68	51.62	4.500	
7,250.00	7,147.83	7,248.75	7,168.22	27.76	29.61	-110.23	-486.06	-849.58	241.47	190.17	51.30	4.707	
7,300.00	7,184.01	7,306.74	7,220.53	27.79	29.72	-113.83	-462.10	-856.62	251.14	200.35	50.79	4.945	
7,350.00	7,217.73	7,366.59	7,272.32	27.82	29.81	-117.03	-432.98	-863.69	261.08	211.02	50.06	5.215	
7,400.00	7,248.81	7,428.39	7,323.06	27.83	29.88	-119.85	-398.44	-870.72	271.08	221.98	49.10	5.521	
7,450.00	7,277.12	7,492.18	7,372.12	27.84	29.94	-122.32	-358.29	-877.64	280.93	233.02	47.91	5.864	
7,500.00	7,302.50	7,558.00	7,418.81	27.85	29.98	-124.47	-312.43	-884.36	290.41	243.89	46.52	6.243	
7,550.00	7,324.84	7,625.82	7,462.33	27.84	30.00	-126.31	-260.85	-890.77	299.33	254.35	44.98	6.655	
7,600.00	7,344.02	7,695.58	7,501.84	27.84	29.99	-127.86	-203.70	-896.77	307.50	264.12	43.38	7.089	
7,650.00	7,359.96	7,767.16	7,536.43	27.84	29.97	-129.12	-141.30	-902.24	314.75	272.93	41.82	7.526	
7,700.00	7,372.58	7,840.37	7,565.24	27.84	29.94	-130.11	-74.20	-907.06	320.92	280.47	40.44	7.935	
7,750.00	7,381.81	7,914.97	7,587.43	27.86	29.88	-130.83	-3.13	-911.12	325.87	286.47	39.40	8.272	
7,800.00	7,387.61	7,990.66	7,602.33	27.92	29.82	-131.28	70.97	-914.30	329.50	290.68	38.82	8.488	
7,850.00	7,389.95	8,067.06	7,609.42	28.02	29.76	-131.48	146.97	-916.52	331.74	292.92	38.82	8.545	
7,858.73	7,390.00	8,080.44	7,609.83	28.04	29.75	-131.48	160.34	-916.81	331.98	293.10	38.89	8.537	
7,900.00	7,390.00	8,127.12	7,610.00	28.17	29.72	-131.44	207.01	-917.64	332.44	293.23	39.21	8.478	
8,000.00	7,390.00	8,227.11	7,610.00	28.61	29.86	-131.30	306.99	-919.39	333.34	293.33	40.01	8.331	
8,100.00	7,390.00	8,327.10	7,610.00	29.16	30.39	-131.16	406.96	-921.13	334.25	293.28	40.97	8.159	
8,200.00	7,390.00	8,427.09	7,610.00	29.79	31.03	-131.03	506.94	-922.88	335.16	293.09	42.07	7.967	
8,300.00	7,390.00	8,527.09	7,610.00	30.50	31.73	-130.89	606.92	-924.63	336.07	292.77	43.30	7.761	
8,400.00	7,390.00	8,627.08	7,610.00	31.27	32.48	-130.76	706.90	-926.37	336.98	292.32	44.67	7.545	
8,500.00	7,390.00	8,727.07	7,610.00	32.10	33.30	-130.63	806.87	-928.12	337.90	291.75	46.14	7.323	
8,600.00	7,390.00	8,827.06	7,610.00	32.98	34.16	-130.49	906.85	-929.86	338.81	291.09	47.73	7.099	
8,700.00	7,390.00	8,927.06	7,610.00	33.91	35.07	-130.36	1,006.83	-931.61	339.73	290.33	49.40	6.877	
8,800.00	7,390.00	9,027.05	7,610.00	34.89	36.03	-130.23	1,106.81	-933.35	340.65	289.48	51.17	6.657	
8,900.00	7,390.00	9,127.04	7,610.00	35.91	37.03	-130.10	1,206.78	-935.10	341.57	288.55	53.02	6.442	

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 4G-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 4G-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				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)			
9,000.00	7,390.00	9,227.04	7,610.00	36.96	38.06	-129.97	1,306.76	-936.84	342.50	287.56	54.94	6.234	
9,100.00	7,390.00	9,327.03	7,610.00	38.06	39.14	-129.84	1,406.74	-938.59	343.42	286.49	56.93	6.033	
9,200.00	7,390.00	9,427.02	7,610.00	39.18	40.24	-129.71	1,506.72	-940.33	344.35	285.37	58.97	5.839	
9,300.00	7,390.00	9,527.01	7,610.00	40.34	41.38	-129.58	1,606.69	-942.08	345.28	284.20	61.08	5.653	
9,400.00	7,390.00	9,627.01	7,610.00	41.52	42.54	-129.46	1,706.67	-943.82	346.21	282.98	63.23	5.475	
9,500.00	7,390.00	9,727.00	7,610.00	42.73	43.73	-129.33	1,806.65	-945.57	347.14	281.71	65.43	5.305	
9,600.00	7,390.00	9,826.99	7,610.00	43.96	44.95	-129.20	1,906.63	-947.31	348.07	280.40	67.67	5.144	
9,700.00	7,390.00	9,926.98	7,610.00	45.22	46.19	-129.08	2,006.60	-949.06	349.01	279.06	69.95	4.989	
9,800.00	7,390.00	10,026.98	7,610.00	46.49	47.45	-128.95	2,106.58	-950.80	349.94	277.68	72.27	4.842	
9,900.00	7,390.00	10,126.97	7,610.00	47.79	48.72	-128.83	2,206.56	-952.55	350.88	276.27	74.62	4.702	
10,000.00	7,390.00	10,226.96	7,610.00	49.10	50.02	-128.71	2,306.54	-954.29	351.82	274.83	77.00	4.569	
10,100.00	7,390.00	10,326.96	7,610.00	50.42	51.33	-128.58	2,406.51	-956.04	352.77	273.36	79.41	4.443	
10,200.00	7,390.00	10,426.95	7,610.00	51.76	52.66	-128.46	2,506.49	-957.78	353.71	271.87	81.84	4.322	
10,300.00	7,390.00	10,526.94	7,610.00	53.11	54.00	-128.34	2,606.47	-959.53	354.65	270.36	84.30	4.207	
10,400.00	7,390.00	10,626.93	7,610.00	54.48	55.36	-128.22	2,706.45	-961.27	355.60	268.82	86.78	4.098	
10,500.00	7,390.00	10,726.93	7,610.00	55.86	56.72	-128.10	2,806.42	-963.02	356.55	267.27	89.28	3.993	
10,600.00	7,390.00	10,826.92	7,610.00	57.24	58.10	-127.98	2,906.40	-964.76	357.50	265.69	91.81	3.894	
10,700.00	7,390.00	10,926.91	7,610.00	58.64	59.49	-127.86	3,006.38	-966.51	358.45	264.10	94.35	3.799	
10,800.00	7,390.00	11,026.90	7,610.00	60.05	60.89	-127.75	3,106.36	-968.25	359.40	262.49	96.91	3.709	
10,900.00	7,390.00	11,126.90	7,610.00	61.47	62.30	-127.63	3,206.33	-970.00	360.36	260.87	99.48	3.622	
11,000.00	7,390.00	11,226.89	7,610.00	62.89	63.71	-127.51	3,306.31	-971.74	361.31	259.24	102.08	3.540	
11,100.00	7,390.00	11,326.88	7,610.00	64.32	65.14	-127.40	3,406.29	-973.49	362.27	257.59	104.68	3.461	
11,200.00	7,390.00	11,426.88	7,610.00	65.76	66.57	-127.28	3,506.27	-975.23	363.23	255.92	107.31	3.385	
11,300.00	7,390.00	11,526.87	7,610.00	67.20	68.01	-127.16	3,606.24	-976.98	364.19	254.25	109.94	3.313	
11,400.00	7,390.00	11,626.86	7,610.00	68.66	69.46	-127.05	3,706.22	-978.72	365.15	252.56	112.59	3.243	
11,500.00	7,390.00	11,726.85	7,610.00	70.11	70.91	-126.94	3,806.20	-980.47	366.11	250.86	115.25	3.177	
11,600.00	7,390.00	11,826.85	7,610.00	71.58	72.37	-126.82	3,906.18	-982.21	367.08	249.16	117.92	3.113	
11,700.00	7,390.00	11,926.84	7,610.00	73.04	73.84	-126.71	4,006.15	-983.96	368.04	247.44	120.61	3.052	
11,800.00	7,390.00	12,026.83	7,610.00	74.52	75.31	-126.60	4,106.13	-985.70	369.01	245.71	123.30	2.993	
11,900.00	7,390.00	12,126.82	7,610.00	75.99	76.78	-126.49	4,206.11	-987.45	369.98	243.98	126.00	2.936	
12,000.00	7,390.00	12,226.82	7,610.00	77.47	78.26	-126.38	4,306.09	-989.19	370.95	242.23	128.72	2.882	
12,100.00	7,390.00	12,326.81	7,610.00	78.96	79.74	-126.27	4,406.06	-990.94	371.92	240.48	131.44	2.830	
12,200.00	7,390.00	12,426.80	7,610.00	80.45	81.23	-126.16	4,506.04	-992.68	372.90	238.72	134.18	2.779	
12,300.00	7,390.00	12,526.80	7,610.00	81.94	82.73	-126.05	4,606.02	-994.43	373.87	236.95	136.92	2.731	
12,400.00	7,390.00	12,626.79	7,610.00	83.44	84.22	-125.94	4,706.00	-996.17	374.85	235.18	139.67	2.684	
12,500.00	7,390.00	12,726.78	7,610.00	84.94	85.72	-125.83	4,805.97	-997.92	375.82	233.40	142.43	2.639	
12,600.00	7,390.00	12,826.77	7,610.00	86.44	87.22	-125.72	4,905.95	-999.67	376.80	231.61	145.20	2.595	
12,700.00	7,390.00	12,926.77	7,610.00	87.95	88.73	-125.62	5,005.93	-1,001.41	377.78	229.81	147.97	2.553	
12,800.00	7,390.00	13,026.76	7,610.00	89.46	90.24	-125.51	5,105.91	-1,003.16	378.76	228.01	150.75	2.512	
12,900.00	7,390.00	13,126.75	7,610.00	90.97	91.75	-125.41	5,205.88	-1,004.90	379.74	226.20	153.54	2.473	
13,000.00	7,390.00	13,226.74	7,610.00	92.48	93.27	-125.30	5,305.86	-1,006.65	380.73	224.39	156.34	2.435	
13,100.00	7,390.00	13,326.74	7,610.00	94.00	94.78	-125.20	5,405.84	-1,008.39	381.71	222.57	159.14	2.399	
13,200.00	7,390.00	13,426.73	7,610.00	95.52	96.30	-125.09	5,505.82	-1,010.14	382.70	220.75	161.95	2.363	
13,300.00	7,390.00	13,526.72	7,610.00	97.04	97.83	-124.99	5,605.79	-1,011.88	383.69	218.92	164.77	2.329	
13,400.00	7,390.00	13,626.72	7,610.00	98.56	99.35	-124.89	5,705.77	-1,013.63	384.68	217.08	167.59	2.295	
13,500.00	7,390.00	13,726.71	7,610.00	100.08	100.88	-124.78	5,805.75	-1,015.37	385.66	215.24	170.42	2.263	
13,600.00	7,390.00	13,826.70	7,610.00	101.61	102.41	-124.68	5,905.73	-1,017.12	386.66	213.40	173.26	2.232	
13,700.00	7,390.00	13,926.69	7,610.00	103.14	103.94	-124.58	6,005.70	-1,018.86	387.65	211.55	176.10	2.201	
13,748.73	7,390.00	13,975.42	7,610.00	103.89	104.69	-124.53	6,054.42	-1,019.71	388.13	210.65	177.48	2.187	
13,800.00	7,390.00	14,038.97	7,610.00	104.67	105.65	-124.59	6,117.96	-1,019.99	387.78	209.22	178.55	2.172	
13,821.47	7,390.00	14,068.93	7,610.00	105.01	106.10	-124.76	6,147.91	-1,018.97	386.69	208.04	178.65	2.165	
13,900.00	7,390.00	14,148.10	7,610.00	106.23	107.26	-125.31	6,226.98	-1,014.97	381.46	201.63	179.83	2.121	

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 4G-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 4G-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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor				
14,000.00	7,390.00	14,247.77	7,610.00	107.78	108.73	-126.03	6,326.52	-1,009.93	374.85	193.53	181.32	2.067				
14,100.00	7,390.00	14,347.44	7,610.00	109.34	110.19	-126.77	6,426.06	-1,004.89	368.30	185.58	182.72	2.016				
14,200.00	7,390.00	14,447.11	7,610.00	110.89	111.66	-127.54	6,525.60	-999.85	361.82	177.79	184.03	1.966				
14,300.00	7,390.00	14,546.78	7,610.00	112.45	113.14	-128.34	6,625.14	-994.81	355.40	170.16	185.24	1.919				
14,400.00	7,390.00	14,646.45	7,610.00	114.01	114.61	-129.16	6,724.69	-989.77	349.05	162.70	186.36	1.873				
14,500.00	7,390.00	14,746.12	7,610.00	115.57	116.09	-130.02	6,824.23	-984.73	342.78	155.42	187.36	1.830				
14,600.00	7,390.00	14,845.78	7,610.00	117.14	117.57	-130.91	6,923.77	-979.69	336.59	148.34	188.25	1.788				
14,625.12	7,390.00	14,856.87	7,610.00	117.53	117.73	-131.01	6,934.84	-979.13	335.34	146.29	189.05	1.774 SF				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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		
0.00	0.00	1.00	1.00	0.00	0.00	89.78	0.04	9.79	9.79					
100.00	100.00	101.00	101.00	0.14	0.14	89.78	0.04	9.79	9.79	9.51	0.28	35.015		
200.00	200.00	201.00	201.00	0.50	0.50	89.78	0.04	9.79	9.79	8.79	1.00	9.826		
213.83	213.83	214.83	214.83	0.55	0.55	90.00	0.00	9.79	9.79	8.70	1.09	8.953 CC		
300.00	300.00	300.96	300.94	0.85	0.84	100.08	-1.74	9.79	9.94	8.24	1.70	5.851 ES		
400.00	400.00	400.68	400.51	1.21	1.19	125.52	-6.99	9.79	12.04	9.60	2.44	4.933		
500.00	500.00	500.44	499.94	1.57	1.55	150.85	-14.84	8.28	17.03	13.85	3.18	5.353		
600.00	600.00	599.70	598.65	1.93	1.92	171.13	-24.41	3.81	24.82	20.87	3.95	6.288		
700.00	700.00	698.25	696.27	2.29	2.31	-174.32	-35.62	-3.54	36.10	31.39	4.72	7.653		
800.00	800.00	797.07	793.94	2.65	2.70	-165.40	-47.75	-12.43	49.84	44.42	5.43	9.187		
900.00	899.98	896.14	891.86	2.99	3.11	-28.07	-59.91	-21.35	62.73	56.62	6.11	10.271		
1,000.00	999.84	995.62	990.18	3.33	3.52	-26.35	-72.12	-30.30	72.71	65.93	6.78	10.720		
1,100.00	1,099.45	1,095.38	1,088.77	3.67	3.93	-26.13	-84.37	-39.28	79.61	72.14	7.47	10.652		
1,204.08	1,202.74	1,199.37	1,191.55	4.04	4.37	-27.07	-97.14	-48.64	83.48	75.27	8.21	10.171		
1,300.00	1,297.71	1,295.25	1,286.31	4.39	4.77	-28.44	-108.91	-57.27	85.52	76.63	8.90	9.613		
1,400.00	1,396.72	1,395.20	1,385.10	4.77	5.19	-29.80	-121.18	-66.26	87.71	78.08	9.62	9.113		
1,500.00	1,495.72	1,495.16	1,483.89	5.15	5.61	-31.09	-133.45	-75.26	89.94	79.58	10.36	8.682		
1,600.00	1,594.73	1,595.11	1,582.68	5.54	6.03	-32.32	-145.72	-84.25	92.21	81.11	11.10	8.306		
1,700.00	1,693.74	1,695.07	1,681.47	5.93	6.46	-33.48	-157.99	-93.25	94.53	82.68	11.85	7.976		
1,800.00	1,792.74	1,795.02	1,780.26	6.32	6.88	-34.60	-170.26	-102.24	96.88	84.28	12.61	7.685		
1,900.00	1,891.75	1,894.98	1,879.05	6.72	7.30	-35.66	-182.54	-111.24	99.27	85.90	13.37	7.427		
2,000.00	1,990.76	1,994.93	1,977.84	7.12	7.73	-36.67	-194.81	-120.23	101.69	87.56	14.13	7.196		
2,100.00	2,089.76	2,094.89	2,076.63	7.52	8.15	-37.63	-207.08	-129.23	104.14	89.24	14.90	6.989		
2,200.00	2,188.77	2,194.84	2,175.42	7.92	8.58	-38.55	-219.35	-138.23	106.62	90.94	15.67	6.803		
2,300.00	2,287.78	2,294.80	2,274.21	8.33	9.00	-39.42	-231.62	-147.22	109.12	92.67	16.45	6.634		
2,400.00	2,386.78	2,394.75	2,373.00	8.74	9.43	-40.26	-243.89	-156.22	111.65	94.42	17.23	6.481		
2,500.00	2,485.79	2,494.71	2,471.79	9.14	9.85	-41.06	-256.16	-165.21	114.20	96.19	18.01	6.341		
2,600.00	2,584.80	2,594.66	2,570.58	9.55	10.28	-41.82	-268.43	-174.21	116.77	97.98	18.80	6.213		
2,700.00	2,683.81	2,694.62	2,669.37	9.96	10.70	-42.55	-280.71	-183.20	119.36	99.78	19.58	6.095		
2,800.00	2,782.81	2,794.57	2,768.16	10.37	11.13	-43.25	-292.98	-192.20	121.97	101.60	20.37	5.987		
2,900.00	2,881.82	2,894.53	2,866.95	10.78	11.55	-43.92	-305.25	-201.19	124.60	103.44	21.17	5.887		
3,000.00	2,980.83	2,994.48	2,965.74	11.19	11.98	-44.56	-317.52	-210.19	127.25	105.29	21.96	5.794		
3,100.00	3,079.83	3,094.44	3,064.53	11.60	12.41	-45.18	-329.79	-219.18	129.91	107.15	22.76	5.709		
3,200.00	3,178.84	3,194.39	3,163.32	12.02	12.83	-45.77	-342.06	-228.18	132.58	109.03	23.55	5.629		
3,300.00	3,277.85	3,294.35	3,262.12	12.43	13.26	-46.34	-354.33	-237.18	135.27	110.91	24.35	5.554		
3,400.00	3,376.85	3,394.30	3,360.91	12.84	13.68	-46.89	-366.60	-246.17	137.97	112.81	25.16	5.485		
3,500.00	3,475.86	3,494.26	3,459.70	13.25	14.11	-47.41	-378.88	-255.17	140.68	114.72	25.96	5.420		
3,600.00	3,574.87	3,594.21	3,558.49	13.67	14.54	-47.92	-391.15	-264.16	143.41	116.64	26.76	5.359		
3,700.00	3,673.87	3,694.17	3,657.28	14.08	14.96	-48.40	-403.42	-273.16	146.14	118.57	27.57	5.301		
3,800.00	3,772.88	3,794.12	3,756.07	14.49	15.39	-48.87	-415.69	-282.15	148.88	120.51	28.37	5.247		
3,900.00	3,871.89	3,894.08	3,854.86	14.91	15.82	-49.32	-427.96	-291.15	151.64	122.46	29.18	5.196		
4,000.00	3,970.90	3,994.03	3,953.65	15.32	16.24	-49.76	-440.23	-300.14	154.40	124.41	29.99	5.149		
4,100.00	4,069.90	4,093.99	4,052.44	15.74	16.67	-50.18	-452.50	-309.14	157.17	126.38	30.80	5.103		
4,200.00	4,168.91	4,193.94	4,151.23	16.15	17.10	-50.58	-464.77	-318.13	159.95	128.35	31.61	5.060		
4,300.00	4,267.92	4,293.90	4,250.02	16.57	17.52	-50.97	-477.05	-327.13	162.74	130.32	32.42	5.020		
4,400.00	4,366.92	4,393.85	4,348.81	16.98	17.95	-51.35	-489.32	-336.12	165.54	132.31	33.23	4.981		
4,500.00	4,465.93	4,493.81	4,447.60	17.40	18.38	-51.72	-501.59	-345.12	168.34	134.30	34.04	4.945		
4,600.00	4,564.94	4,593.76	4,546.39	17.81	18.80	-52.07	-513.86	-354.12	171.15	136.29	34.86	4.910		
4,700.00	4,663.94	4,697.60	4,649.19	18.23	19.23	-52.71	-525.57	-362.70	173.04	137.34	35.71	4.846		
4,800.00	4,762.95	4,802.14	4,753.16	18.64	19.64	-54.19	-534.37	-369.15	172.33	135.75	36.58	4.711		
4,900.00	4,861.96	4,906.29	4,857.06	19.06	20.02	-56.57	-540.08	-373.34	169.16	131.70	37.47	4.515		
5,000.00	4,960.96	5,009.76	4,960.48	19.48	20.37	-60.01	-542.74	-375.29	163.88	125.50	38.38	4.270		

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 4G-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 4G-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	
5,100.00	5,059.97	5,110.25	5,060.97	19.89	20.66	-64.40	-542.96	-375.45	157.44	118.10	39.35	4.001	
5,200.00	5,158.98	5,209.26	5,159.98	20.31	20.94	-69.14	-542.96	-375.45	151.85	111.52	40.33	3.765	
5,300.00	5,257.99	5,308.27	5,258.99	20.72	21.22	-74.21	-542.96	-375.45	147.38	106.09	41.30	3.569	
5,400.00	5,356.99	5,407.28	5,357.99	21.14	21.50	-79.54	-542.96	-375.45	144.16	101.92	42.24	3.413	
5,500.00	5,456.00	5,506.28	5,457.00	21.56	21.79	-85.07	-542.96	-375.45	142.26	99.12	43.13	3.298	
5,587.90	5,543.03	5,593.31	5,544.03	21.92	22.04	-90.00	-542.96	-375.45	141.72	97.85	43.86	3.231	
5,600.00	5,555.01	5,605.29	5,556.01	21.97	22.07	-90.68	-542.96	-375.45	141.73	97.77	43.96	3.224	
5,700.00	5,654.01	5,704.30	5,655.01	22.39	22.36	-96.28	-542.96	-375.45	142.59	97.87	44.72	3.189	
5,800.00	5,753.02	5,803.30	5,754.02	22.81	22.66	-101.77	-542.96	-375.45	144.82	99.42	45.40	3.190	
5,900.00	5,852.03	5,902.31	5,853.03	23.22	22.95	-107.04	-542.96	-375.45	148.35	102.34	46.01	3.224	
6,000.00	5,951.03	6,001.32	5,952.03	23.64	23.24	-112.03	-542.96	-375.45	153.10	106.53	46.57	3.288	
6,100.00	6,050.04	6,100.32	6,051.04	24.06	23.54	-116.70	-542.96	-375.45	158.96	111.87	47.09	3.376	
6,200.00	6,149.05	6,199.33	6,150.05	24.47	23.84	-121.01	-542.96	-375.45	165.80	118.21	47.58	3.484	
6,300.00	6,248.05	6,298.34	6,249.05	24.89	24.14	-124.97	-542.96	-375.45	173.51	125.44	48.07	3.610	
6,400.00	6,347.06	6,397.34	6,348.06	25.31	24.44	-128.58	-542.96	-375.45	181.98	133.44	48.55	3.749	
6,500.00	6,446.07	6,496.35	6,447.07	25.72	24.74	-131.85	-542.96	-375.45	191.12	142.08	49.03	3.898	
6,600.00	6,545.07	6,595.36	6,546.07	26.14	25.05	-134.83	-542.96	-375.45	200.82	151.29	49.53	4.055	
6,665.43	6,609.86	6,660.14	6,610.86	26.41	25.25	-136.62	-542.96	-375.45	207.44	157.58	49.86	4.160	
6,700.00	6,644.15	6,694.43	6,645.15	26.55	25.35	-155.68	-542.96	-375.45	211.01	160.96	50.05	4.216	
6,750.00	6,693.86	6,744.15	6,694.86	26.74	25.51	167.22	-542.96	-375.45	216.21	165.84	50.37	4.292	
6,800.00	6,743.50	6,793.78	6,744.50	26.90	25.66	138.34	-542.96	-375.45	221.40	170.66	50.74	4.364	
6,850.00	6,792.82	6,843.37	6,794.07	27.05	25.81	123.72	-542.32	-375.45	226.66	175.52	51.14	4.432	
6,900.00	6,841.57	6,893.37	6,843.92	27.19	25.96	116.30	-538.47	-375.45	232.04	180.51	51.53	4.503	
6,950.00	6,889.53	6,943.81	6,893.81	27.31	26.10	112.20	-531.06	-375.46	237.48	185.59	51.89	4.577	
7,000.00	6,936.45	6,994.70	6,943.48	27.41	26.22	109.80	-520.06	-375.46	242.97	190.75	52.22	4.652	
7,050.00	6,982.12	7,046.05	6,992.68	27.51	26.34	108.35	-505.41	-375.47	248.46	195.93	52.52	4.730	
7,100.00	7,026.30	7,097.86	7,041.13	27.59	26.45	107.45	-487.09	-375.48	253.90	201.12	52.79	4.810	
7,150.00	7,068.78	7,150.14	7,088.56	27.66	26.55	106.91	-465.10	-375.49	259.27	206.26	53.01	4.891	
7,200.00	7,109.36	7,202.90	7,134.65	27.71	26.64	106.60	-439.47	-375.50	264.52	211.34	53.18	4.974	
7,250.00	7,147.83	7,256.13	7,179.12	27.76	26.72	106.43	-410.24	-375.51	269.61	216.29	53.32	5.057	
7,300.00	7,184.01	7,309.82	7,221.66	27.79	26.79	106.36	-377.50	-375.53	274.50	221.08	53.41	5.139	
7,350.00	7,217.73	7,363.97	7,261.95	27.82	26.86	106.36	-341.34	-375.55	279.15	225.67	53.48	5.220	
7,400.00	7,248.81	7,418.56	7,299.69	27.83	26.92	106.40	-301.92	-375.56	283.53	230.01	53.52	5.297	
7,450.00	7,277.12	7,473.56	7,334.56	27.84	26.98	106.46	-259.40	-375.58	287.60	234.05	53.56	5.370	
7,500.00	7,302.50	7,528.96	7,366.29	27.85	27.04	106.53	-214.00	-375.61	291.33	237.75	53.59	5.437	
7,550.00	7,324.84	7,584.73	7,394.58	27.84	27.11	106.61	-165.96	-375.63	294.69	241.06	53.63	5.495	
7,600.00	7,344.02	7,640.82	7,419.19	27.84	27.18	106.69	-115.57	-375.65	297.64	243.94	53.70	5.542	
7,650.00	7,359.96	7,697.21	7,439.87	27.84	27.26	106.76	-63.13	-375.68	300.17	246.36	53.81	5.578	
7,700.00	7,372.58	7,753.83	7,456.43	27.84	27.37	106.82	-8.99	-375.70	302.24	248.27	53.97	5.600	
7,750.00	7,381.81	7,810.66	7,468.69	27.86	27.49	106.87	46.48	-375.73	303.85	249.66	54.20	5.607	
7,800.00	7,387.61	7,867.62	7,476.54	27.92	27.64	106.90	102.89	-375.76	304.98	250.50	54.48	5.598	
7,850.00	7,389.95	7,924.68	7,479.87	28.02	27.81	106.92	159.83	-375.78	305.62	250.78	54.84	5.573	
7,858.73	7,390.00	7,934.65	7,479.99	28.04	27.84	106.93	169.80	-375.79	305.68	250.77	54.91	5.567	
7,900.00	7,390.00	7,976.35	7,480.00	28.17	27.99	106.92	211.50	-375.81	305.88	250.63	55.25	5.536	
8,000.00	7,390.00	8,076.35	7,480.00	28.61	28.42	106.89	311.50	-375.86	306.35	250.17	56.18	5.453	
8,100.00	7,390.00	8,176.35	7,480.00	29.16	28.93	106.86	411.50	-375.90	306.82	249.56	57.26	5.358	
8,200.00	7,390.00	8,276.34	7,480.00	29.79	29.53	106.84	511.49	-375.95	307.29	248.81	58.48	5.254	
8,300.00	7,390.00	8,376.34	7,480.00	30.50	30.20	106.81	611.49	-376.00	307.76	247.93	59.84	5.143	
8,400.00	7,390.00	8,476.34	7,480.00	31.27	30.95	106.78	711.49	-376.05	308.23	246.92	61.31	5.027	
8,500.00	7,390.00	8,576.34	7,480.00	32.10	31.75	106.76	811.49	-376.09	308.70	245.80	62.90	4.907	
8,600.00	7,390.00	8,676.34	7,480.00	32.98	32.62	106.73	911.49	-376.14	309.17	244.57	64.60	4.786	
8,700.00	7,390.00	8,776.34	7,480.00	33.91	33.53	106.70	1,011.49	-376.19	309.64	243.24	66.40	4.663	

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 4G-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 4G-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		
8,800.00	7,390.00	8,876.34	7,480.00	34.89	34.50	106.68	1,111.49	-376.24	310.12	241.82	68.29	4.541		
8,900.00	7,390.00	8,976.34	7,480.00	35.91	35.50	106.65	1,211.49	-376.29	310.59	240.32	70.27	4.420		
9,000.00	7,390.00	9,076.33	7,480.00	36.96	36.55	106.63	1,311.48	-376.33	311.06	238.74	72.32	4.301		
9,100.00	7,390.00	9,176.33	7,480.00	38.06	37.64	106.60	1,411.48	-376.38	311.53	237.09	74.44	4.185		
9,200.00	7,390.00	9,276.33	7,480.00	39.18	38.76	106.57	1,511.48	-376.43	312.00	235.38	76.62	4.072		
9,300.00	7,390.00	9,376.33	7,480.00	40.34	39.91	106.55	1,611.48	-376.48	312.47	233.60	78.87	3.962		
9,400.00	7,390.00	9,476.33	7,480.00	41.52	41.09	106.52	1,711.48	-376.52	312.94	231.77	81.17	3.855		
9,500.00	7,390.00	9,576.33	7,480.00	42.73	42.30	106.50	1,811.48	-376.57	313.41	229.89	83.52	3.752		
9,600.00	7,390.00	9,676.33	7,480.00	43.96	43.53	106.47	1,911.48	-376.62	313.89	227.97	85.92	3.653		
9,700.00	7,390.00	9,776.33	7,480.00	45.22	44.78	106.45	2,011.48	-376.67	314.36	226.00	88.36	3.558		
9,800.00	7,390.00	9,876.33	7,480.00	46.49	46.06	106.42	2,111.47	-376.71	314.83	223.99	90.84	3.466		
9,900.00	7,390.00	9,976.32	7,480.00	47.79	47.35	106.40	2,211.47	-376.76	315.30	221.95	93.35	3.377		
10,000.00	7,390.00	10,076.32	7,480.00	49.10	48.66	106.37	2,311.47	-376.81	315.77	219.87	95.90	3.293		
10,100.00	7,390.00	10,176.32	7,480.00	50.42	49.98	106.35	2,411.47	-376.86	316.24	217.76	98.48	3.211		
10,200.00	7,390.00	10,276.32	7,480.00	51.76	51.32	106.32	2,511.47	-376.90	316.72	215.63	101.09	3.133		
10,300.00	7,390.00	10,376.32	7,480.00	53.11	52.67	106.30	2,611.47	-376.95	317.19	213.47	103.72	3.058		
10,400.00	7,390.00	10,476.32	7,480.00	54.48	54.04	106.27	2,711.47	-377.00	317.66	211.28	106.38	2.986		
10,500.00	7,390.00	10,576.32	7,480.00	55.86	55.42	106.25	2,811.47	-377.05	318.13	209.07	109.06	2.917		
10,600.00	7,390.00	10,676.32	7,480.00	57.24	56.80	106.22	2,911.46	-377.10	318.60	206.84	111.77	2.851		
10,700.00	7,390.00	10,776.31	7,480.00	58.64	58.20	106.20	3,011.46	-377.14	319.08	204.59	114.49	2.787		
10,800.00	7,390.00	10,876.31	7,480.00	60.05	59.61	106.17	3,111.46	-377.19	319.55	202.32	117.23	2.726		
10,900.00	7,390.00	10,976.31	7,480.00	61.47	61.02	106.15	3,211.46	-377.24	320.02	200.04	119.99	2.667		
11,000.00	7,390.00	11,076.31	7,480.00	62.89	62.45	106.12	3,311.46	-377.29	320.49	197.74	122.76	2.611		
11,100.00	7,390.00	11,176.31	7,480.00	64.32	63.88	106.10	3,411.46	-377.33	320.97	195.42	125.55	2.557		
11,200.00	7,390.00	11,276.31	7,480.00	65.76	65.32	106.07	3,511.46	-377.38	321.44	193.09	128.35	2.504		
11,300.00	7,390.00	11,376.31	7,480.00	67.20	66.76	106.05	3,611.46	-377.43	321.91	190.75	131.17	2.454		
11,400.00	7,390.00	11,476.31	7,480.00	68.66	68.21	106.03	3,711.45	-377.48	322.38	188.39	133.99	2.406		
11,500.00	7,390.00	11,576.30	7,480.00	70.11	69.67	106.00	3,811.45	-377.52	322.86	186.02	136.83	2.359		
11,600.00	7,390.00	11,676.30	7,480.00	71.58	71.13	105.98	3,911.45	-377.57	323.33	183.65	139.68	2.315		
11,700.00	7,390.00	11,776.30	7,480.00	73.04	72.60	105.95	4,011.45	-377.62	323.80	181.26	142.54	2.272		
11,800.00	7,390.00	11,876.30	7,480.00	74.52	74.07	105.93	4,111.45	-377.67	324.27	178.86	145.41	2.230		
11,900.00	7,390.00	11,976.30	7,480.00	75.99	75.54	105.91	4,211.45	-377.71	324.75	176.45	148.29	2.190		
12,000.00	7,390.00	12,076.30	7,480.00	77.47	77.02	105.88	4,311.45	-377.76	325.22	174.04	151.18	2.151		
12,100.00	7,390.00	12,176.30	7,480.00	78.96	78.51	105.86	4,411.45	-377.81	325.69	171.61	154.08	2.114		
12,200.00	7,390.00	12,276.30	7,480.00	80.45	80.00	105.84	4,511.45	-377.86	326.17	169.18	156.98	2.078		
12,300.00	7,390.00	12,376.30	7,480.00	81.94	81.49	105.81	4,611.44	-377.91	326.64	166.74	159.90	2.043		
12,400.00	7,390.00	12,476.29	7,480.00	83.44	82.98	105.79	4,711.44	-377.95	327.11	164.30	162.82	2.009		
12,500.00	7,390.00	12,576.29	7,480.00	84.94	84.48	105.76	4,811.44	-378.00	327.59	161.84	165.74	1.976		
12,600.00	7,390.00	12,676.29	7,480.00	86.44	85.98	105.74	4,911.44	-378.05	328.06	159.39	168.67	1.945		
12,700.00	7,390.00	12,776.29	7,480.00	87.95	87.49	105.72	5,011.44	-378.10	328.53	156.92	171.61	1.914		
12,800.00	7,390.00	12,876.29	7,480.00	89.46	89.00	105.69	5,111.44	-378.14	329.01	154.45	174.56	1.885		
12,900.00	7,390.00	12,976.29	7,480.00	90.97	90.51	105.67	5,211.44	-378.19	329.48	151.97	177.51	1.856		
13,000.00	7,390.00	13,076.29	7,480.00	92.48	92.02	105.65	5,311.44	-378.24	329.95	149.49	180.46	1.828		
13,100.00	7,390.00	13,176.29	7,480.00	94.00	93.53	105.63	5,411.43	-378.29	330.43	147.01	183.42	1.801		
13,200.00	7,390.00	13,276.28	7,480.00	95.52	95.05	105.60	5,511.43	-378.33	330.90	144.52	186.38	1.775		
13,300.00	7,390.00	13,376.28	7,480.00	97.04	96.57	105.58	5,611.43	-378.38	331.37	142.02	189.35	1.750		
13,400.00	7,390.00	13,476.28	7,480.00	98.56	98.09	105.56	5,711.43	-378.43	331.85	139.52	192.33	1.725		
13,500.00	7,390.00	13,576.28	7,480.00	100.08	99.61	105.53	5,811.43	-378.48	332.32	137.02	195.30	1.702		
13,600.00	7,390.00	13,676.28	7,480.00	101.61	101.14	105.51	5,911.43	-378.52	332.79	134.51	198.29	1.678		
13,700.00	7,390.00	13,776.28	7,480.00	103.14	102.66	105.49	6,011.43	-378.57	333.27	132.00	201.27	1.656		
13,748.73	7,390.00	13,825.00	7,480.00	103.89	103.41	105.48	6,060.15	-378.60	333.50	130.77	202.73	1.645		
13,800.00	7,390.00	13,876.27	7,480.00	104.67	104.19	105.45	6,111.42	-378.62	334.18	129.91	204.28	1.636		

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 4G-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 4G-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					
13,821.47	7,390.00	13,897.74	7,480.00	105.01	104.52	105.43	6,132.89	-378.63	334.73	129.80	204.94	1.633					
13,900.00	7,390.00	13,976.23	7,480.00	106.23	105.72	105.32	6,211.38	-378.67	337.03	129.67	207.36	1.625					
14,000.00	7,390.00	14,076.18	7,480.00	107.78	107.25	105.18	6,311.33	-378.72	339.95	129.50	210.45	1.615					
14,100.00	7,390.00	14,176.14	7,480.00	109.34	108.78	105.05	6,411.29	-378.76	342.88	129.34	213.54	1.606					
14,200.00	7,390.00	14,276.09	7,480.00	110.89	110.32	104.92	6,511.24	-378.81	345.81	129.17	216.64	1.596					
14,300.00	7,390.00	14,376.04	7,480.00	112.45	111.85	104.79	6,611.19	-378.86	348.74	129.00	219.73	1.587					
14,400.00	7,390.00	14,476.00	7,480.00	114.01	113.39	104.67	6,711.15	-378.91	351.67	128.83	222.84	1.578					
14,500.00	7,390.00	14,575.95	7,480.00	115.57	114.93	104.54	6,811.10	-378.95	354.60	128.66	225.94	1.569					
14,600.00	7,390.00	14,675.91	7,480.00	117.14	116.47	104.42	6,911.06	-379.00	357.53	128.49	229.05	1.561					
14,625.12	7,390.00	14,701.02	7,480.00	117.53	116.85	104.39	6,936.16	-379.01	358.27	128.44	229.83	1.559 SF					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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	89.75	0.09	19.86	19.86				
100.00	100.00	100.00	100.00	0.14	0.14	89.75	0.09	19.86	19.86	19.58	0.28	71.953	
200.00	200.00	200.00	200.00	0.50	0.50	89.75	0.09	19.86	19.86	18.87	0.99	20.001	
300.00	300.00	300.00	300.00	0.85	0.85	89.75	0.09	19.86	19.86	18.15	1.71	11.615 CC	
300.16	300.16	300.16	300.16	0.86	0.86	89.75	0.09	19.86	19.86	18.15	1.71	11.607	
400.00	400.00	399.95	399.93	1.21	1.20	94.76	-1.66	19.89	19.96	17.55	2.41	8.280 ES	
500.00	500.00	499.66	499.50	1.57	1.54	108.96	-6.87	19.99	21.14	18.02	3.12	6.781	
600.00	600.00	598.88	598.34	1.93	1.89	127.56	-15.49	20.14	25.46	21.59	3.87	6.578	
700.00	700.00	697.81	696.57	2.29	2.26	143.16	-27.17	20.35	34.12	29.49	4.63	7.368	
800.00	800.00	797.04	795.04	2.65	2.63	152.45	-39.43	20.57	44.75	39.40	5.34	8.375	
900.00	899.98	896.40	893.64	2.99	3.02	-70.45	-51.71	20.79	55.49	49.46	6.03	9.199	
1,000.00	999.84	995.92	992.40	3.33	3.41	-70.46	-64.00	21.01	65.18	58.46	6.72	9.705	
1,100.00	1,099.45	1,095.49	1,091.21	3.67	3.80	-73.01	-76.31	21.23	73.79	66.37	7.42	9.950	
1,204.08	1,202.74	1,199.04	1,193.96	4.04	4.21	-77.57	-89.10	21.46	82.02	73.85	8.17	10.043	
1,300.00	1,297.71	1,294.40	1,288.59	4.39	4.59	-82.23	-100.89	21.68	89.76	80.88	8.88	10.109	
1,400.00	1,396.72	1,393.80	1,387.23	4.77	4.99	-86.28	-113.17	21.90	98.35	88.72	9.64	10.206	
1,500.00	1,495.72	1,493.21	1,485.88	5.15	5.39	-89.67	-125.45	22.12	107.36	96.96	10.40	10.319	
1,600.00	1,594.73	1,592.62	1,584.53	5.54	5.79	-92.53	-137.74	22.34	116.69	105.51	11.18	10.437	
1,700.00	1,693.74	1,692.03	1,683.17	5.93	6.19	-94.96	-150.02	22.56	126.26	114.30	11.96	10.556	
1,800.00	1,792.74	1,791.44	1,781.82	6.32	6.59	-97.05	-162.30	22.78	136.02	123.28	12.75	10.671	
1,900.00	1,891.75	1,890.85	1,880.46	6.72	6.99	-98.86	-174.59	23.00	145.94	132.41	13.54	10.781	
2,000.00	1,990.76	1,990.25	1,979.11	7.12	7.39	-100.43	-186.87	23.22	155.99	141.66	14.33	10.887	
2,100.00	2,089.76	2,089.66	2,077.76	7.52	7.79	-101.82	-199.16	23.44	166.14	151.01	15.12	10.986	
2,200.00	2,188.77	2,189.07	2,176.40	7.92	8.19	-103.04	-211.44	23.66	176.37	160.45	15.92	11.080	
2,300.00	2,287.78	2,288.48	2,275.05	8.33	8.59	-104.13	-223.72	23.89	186.67	169.96	16.72	11.168	
2,400.00	2,386.78	2,387.89	2,373.70	8.74	8.99	-105.11	-236.01	24.11	197.04	179.52	17.51	11.251	
2,500.00	2,485.79	2,487.30	2,472.34	9.14	9.39	-105.99	-248.29	24.33	207.45	189.14	18.31	11.329	
2,600.00	2,584.80	2,586.71	2,570.99	9.55	9.79	-106.78	-260.57	24.55	217.91	198.80	19.11	11.402	
2,700.00	2,683.81	2,686.11	2,669.63	9.96	10.20	-107.50	-272.86	24.77	228.40	208.49	19.91	11.471	
2,800.00	2,782.81	2,785.52	2,768.28	10.37	10.60	-108.16	-285.14	24.99	238.93	218.22	20.71	11.536	
2,900.00	2,881.82	2,884.93	2,866.93	10.78	11.00	-108.76	-297.43	25.21	249.49	227.98	21.51	11.597	
3,000.00	2,980.83	2,984.34	2,965.57	11.19	11.40	-109.31	-309.71	25.43	260.07	237.76	22.32	11.654	
3,100.00	3,079.83	3,083.75	3,064.22	11.60	11.80	-109.82	-321.99	25.65	270.68	247.56	23.12	11.709	
3,200.00	3,178.84	3,183.16	3,162.87	12.02	12.21	-110.30	-334.28	25.87	281.30	257.38	23.92	11.760	
3,300.00	3,277.85	3,282.56	3,261.51	12.43	12.61	-110.73	-346.56	26.09	291.94	267.22	24.72	11.809	
3,400.00	3,376.85	3,381.97	3,360.16	12.84	13.01	-111.14	-358.84	26.32	302.60	277.07	25.53	11.855	
3,500.00	3,475.86	3,481.38	3,458.80	13.25	13.41	-111.52	-371.13	26.54	313.27	286.94	26.33	11.898	
3,600.00	3,574.87	3,580.79	3,557.45	13.67	13.82	-111.87	-383.41	26.76	323.95	296.82	27.13	11.940	
3,700.00	3,673.87	3,680.20	3,656.10	14.08	14.22	-112.20	-395.70	26.98	334.65	306.71	27.94	11.979	
3,800.00	3,772.88	3,779.61	3,754.74	14.49	14.62	-112.51	-407.98	27.20	345.35	316.62	28.74	12.017	
3,900.00	3,871.89	3,879.01	3,853.39	14.91	15.02	-112.81	-420.26	27.42	356.07	326.53	29.54	12.053	
4,000.00	3,970.90	3,978.42	3,952.04	15.32	15.43	-113.08	-432.55	27.64	366.79	336.45	30.35	12.087	
4,100.00	4,069.90	4,077.83	4,050.68	15.74	15.83	-113.34	-444.83	27.86	377.52	346.37	31.15	12.119	
4,200.00	4,168.91	4,177.24	4,149.33	16.15	16.23	-113.59	-457.11	28.08	388.26	356.31	31.95	12.151	
4,300.00	4,267.92	4,276.65	4,247.98	16.57	16.63	-113.82	-469.40	28.30	399.01	366.25	32.76	12.180	
4,400.00	4,366.92	4,376.06	4,346.62	16.98	17.04	-114.04	-481.68	28.53	409.76	376.20	33.56	12.209	
4,500.00	4,465.93	4,475.46	4,445.27	17.40	17.44	-114.25	-493.97	28.75	420.52	386.15	34.37	12.236	
4,600.00	4,564.94	4,574.87	4,543.91	17.81	17.84	-114.44	-506.25	28.97	431.28	396.11	35.17	12.262	
4,700.00	4,663.94	4,674.28	4,642.56	18.23	18.24	-114.63	-518.53	29.19	442.05	406.07	35.98	12.287	
4,800.00	4,762.95	4,779.93	4,747.60	18.64	18.66	-114.81	-529.77	29.39	452.16	415.34	36.81	12.282	
4,900.00	4,861.96	4,885.74	4,853.15	19.06	19.05	-115.87	-537.15	29.52	460.90	423.28	37.63	12.249	
5,000.00	4,960.96	4,991.22	4,958.57	19.48	19.42	-117.12	-540.61	29.59	468.42	430.02	38.40	12.197	

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 4G-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 4G-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		
5,100.00	5,059.97	5,092.63	5,059.97	19.89	19.72	-118.62	-540.91	29.59	475.15	436.04	39.11	12.149		
5,200.00	5,158.98	5,191.63	5,158.98	20.31	20.01	-120.07	-540.91	29.59	482.09	442.30	39.79	12.115		
5,300.00	5,257.99	5,290.64	5,257.99	20.72	20.30	-121.49	-540.91	29.59	489.34	448.86	40.47	12.091		
5,400.00	5,356.99	5,389.65	5,356.99	21.14	20.59	-122.86	-540.91	29.59	496.88	455.73	41.15	12.075		
5,500.00	5,456.00	5,488.65	5,456.00	21.56	20.89	-124.19	-540.91	29.59	504.70	462.87	41.82	12.067		
5,600.00	5,555.01	5,587.66	5,555.01	21.97	21.19	-125.48	-540.91	29.59	512.78	470.28	42.50	12.066		
5,700.00	5,654.01	5,686.67	5,654.01	22.39	21.48	-126.73	-540.91	29.59	521.12	477.95	43.17	12.072		
5,800.00	5,753.02	5,785.67	5,753.02	22.81	21.78	-127.94	-540.91	29.59	529.70	485.86	43.84	12.083		
5,900.00	5,852.03	5,884.68	5,852.03	23.22	22.08	-129.12	-540.91	29.59	538.51	494.00	44.51	12.099		
6,000.00	5,951.03	5,983.69	5,951.03	23.64	22.39	-130.25	-540.91	29.59	547.54	502.37	45.17	12.120		
6,100.00	6,050.04	6,082.70	6,050.04	24.06	22.69	-131.35	-540.91	29.59	556.78	510.94	45.84	12.146		
6,200.00	6,149.05	6,181.70	6,149.05	24.47	23.00	-132.41	-540.91	29.59	566.22	519.71	46.51	12.174		
6,300.00	6,248.05	6,280.71	6,248.05	24.89	23.31	-133.44	-540.91	29.59	575.84	528.67	47.18	12.206		
6,400.00	6,347.06	6,379.72	6,347.06	25.31	23.61	-134.43	-540.91	29.59	585.65	537.81	47.84	12.241		
6,500.00	6,446.07	6,478.72	6,446.07	25.72	23.92	-135.39	-540.91	29.59	595.62	547.12	48.51	12.279		
6,600.00	6,545.07	6,577.73	6,545.07	26.14	24.24	-136.32	-540.91	29.59	605.76	556.59	49.18	12.318		
6,665.43	6,609.86	6,642.51	6,609.86	26.41	24.44	-136.91	-540.91	29.59	612.48	562.87	49.61	12.345		
6,700.00	6,644.15	6,676.80	6,644.15	26.55	24.55	-155.52	-540.91	29.59	616.06	566.22	49.84	12.360		
6,750.00	6,693.86	6,726.33	6,693.67	26.74	24.70	167.45	-540.64	29.59	621.26	571.09	50.17	12.384		
6,800.00	6,743.50	6,775.58	6,742.81	26.90	24.85	137.79	-537.58	29.60	626.47	576.00	50.47	12.413		
6,850.00	6,792.82	6,824.81	6,791.61	27.05	24.99	121.73	-531.16	29.62	631.68	580.93	50.74	12.448		
6,900.00	6,841.57	6,874.03	6,839.85	27.19	25.12	112.85	-521.40	29.65	636.86	585.85	51.00	12.487		
6,950.00	6,889.53	6,923.26	6,887.31	27.31	25.24	107.38	-508.35	29.69	641.98	590.74	51.24	12.530		
7,000.00	6,936.45	6,972.49	6,933.76	27.41	25.36	103.67	-492.07	29.75	647.02	595.56	51.46	12.574		
7,050.00	6,982.12	7,021.74	6,979.00	27.51	25.47	100.98	-472.63	29.81	651.96	600.30	51.66	12.620		
7,100.00	7,026.30	7,071.01	7,022.82	27.59	25.57	98.93	-450.12	29.88	656.77	604.92	51.85	12.666		
7,150.00	7,068.78	7,120.31	7,065.00	27.66	25.67	97.30	-424.63	29.96	661.43	609.39	52.03	12.712		
7,200.00	7,109.36	7,169.64	7,105.37	27.71	25.76	95.98	-396.29	30.05	665.91	613.70	52.21	12.755		
7,250.00	7,147.83	7,219.01	7,143.71	27.76	25.86	94.88	-365.20	30.15	670.20	617.82	52.38	12.795		
7,300.00	7,184.01	7,268.42	7,179.85	27.79	25.96	93.96	-331.52	30.26	674.27	621.71	52.55	12.830		
7,350.00	7,217.73	7,317.88	7,213.62	27.82	26.05	93.18	-295.40	30.37	678.10	625.37	52.73	12.859		
7,400.00	7,248.81	7,367.39	7,244.84	27.83	26.16	92.51	-256.99	30.49	681.68	628.76	52.92	12.881		
7,450.00	7,277.12	7,416.95	7,273.36	27.84	26.27	91.94	-216.47	30.62	684.99	631.87	53.12	12.895		
7,500.00	7,302.50	7,466.56	7,299.04	27.85	26.38	91.46	-174.03	30.76	688.00	634.67	53.33	12.900		
7,550.00	7,324.84	7,516.23	7,321.74	27.84	26.51	91.06	-129.87	30.90	690.72	637.15	53.57	12.894		
7,600.00	7,344.02	7,565.95	7,341.35	27.84	26.65	90.73	-84.19	31.05	693.11	639.29	53.83	12.877		
7,650.00	7,359.96	7,615.72	7,357.75	27.84	26.80	90.46	-37.21	31.20	695.18	641.08	54.11	12.849		
7,700.00	7,372.58	7,665.55	7,370.87	27.84	26.96	90.26	10.85	31.35	696.91	642.50	54.41	12.808		
7,750.00	7,381.81	7,715.42	7,380.62	27.86	27.13	90.11	59.75	31.50	698.30	643.56	54.74	12.756		
7,800.00	7,387.61	7,765.34	7,386.95	27.92	27.32	90.03	109.26	31.66	699.33	644.23	55.10	12.693		
7,850.00	7,389.95	7,815.31	7,389.82	28.02	27.51	90.00	159.13	31.82	700.00	644.53	55.47	12.618		
7,858.73	7,390.00	7,824.03	7,389.96	28.04	27.55	90.00	167.86	31.85	700.08	644.54	55.54	12.604		
7,900.00	7,390.00	7,865.30	7,390.00	28.17	27.73	90.00	209.13	31.98	700.44	644.55	55.88	12.534		
8,000.00	7,390.00	7,965.30	7,390.00	28.61	28.22	90.00	309.12	32.30	701.30	644.47	56.82	12.342		
8,100.00	7,390.00	8,065.30	7,390.00	29.16	28.78	90.00	409.12	32.62	702.15	644.24	57.91	12.125		
8,200.00	7,390.00	8,165.29	7,390.00	29.79	29.42	90.00	509.11	32.94	703.01	643.86	59.15	11.885		
8,300.00	7,390.00	8,265.29	7,390.00	30.50	30.12	90.00	609.11	33.25	703.87	643.34	60.53	11.628		
8,400.00	7,390.00	8,365.29	7,390.00	31.27	30.90	90.00	709.11	33.57	704.73	642.68	62.05	11.358		
8,500.00	7,390.00	8,465.28	7,390.00	32.10	31.73	90.00	809.10	33.89	705.58	641.91	63.68	11.080		
8,600.00	7,390.00	8,565.28	7,390.00	32.98	32.61	90.00	909.10	34.21	706.44	641.02	65.43	10.798		
8,700.00	7,390.00	8,665.28	7,390.00	33.91	33.55	90.00	1,009.09	34.53	707.30	640.02	67.28	10.513		
8,800.00	7,390.00	8,765.27	7,390.00	34.89	34.54	90.00	1,109.09	34.85	708.16	638.94	69.22	10.230		

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 4G-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 4G-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
8,900.00	7,390.00	8,865.27	7,390.00	35.91	35.56	90.00	1,209.09	35.17	709.02	637.76	71.26	9.950	
9,000.00	7,390.00	8,965.26	7,390.00	36.96	36.63	90.00	1,309.08	35.48	709.87	636.50	73.37	9.675	
9,100.00	7,390.00	9,065.26	7,390.00	38.06	37.73	90.00	1,409.08	35.80	710.73	635.17	75.56	9.406	
9,200.00	7,390.00	9,165.26	7,390.00	39.18	38.87	90.00	1,509.07	36.12	711.59	633.78	77.81	9.145	
9,300.00	7,390.00	9,265.25	7,390.00	40.34	40.04	90.00	1,609.07	36.44	712.45	632.32	80.13	8.891	
9,400.00	7,390.00	9,365.25	7,390.00	41.52	41.23	90.00	1,709.06	36.76	713.31	630.80	82.51	8.646	
9,500.00	7,390.00	9,465.25	7,390.00	42.73	42.45	90.00	1,809.06	37.08	714.16	629.23	84.93	8.409	
9,600.00	7,390.00	9,565.24	7,390.00	43.96	43.69	90.00	1,909.06	37.39	715.02	627.62	87.41	8.181	
9,700.00	7,390.00	9,665.24	7,390.00	45.22	44.96	90.00	2,009.05	37.71	715.88	625.96	89.92	7.961	
9,800.00	7,390.00	9,765.23	7,390.00	46.49	46.24	90.00	2,109.05	38.03	716.74	624.26	92.48	7.750	
9,900.00	7,390.00	9,865.23	7,390.00	47.79	47.54	90.00	2,209.04	38.35	717.60	622.52	95.07	7.548	
10,000.00	7,390.00	9,965.23	7,390.00	49.10	48.86	90.00	2,309.04	38.67	718.45	620.75	97.70	7.354	
10,100.00	7,390.00	10,065.22	7,390.00	50.42	50.19	90.00	2,409.03	38.99	719.31	618.95	100.36	7.167	
10,200.00	7,390.00	10,165.22	7,390.00	51.76	51.54	90.00	2,509.03	39.31	720.17	617.12	103.05	6.989	
10,300.00	7,390.00	10,265.22	7,390.00	53.11	52.90	90.00	2,609.03	39.62	721.03	615.26	105.76	6.817	
10,400.00	7,390.00	10,373.95	7,390.00	54.48	54.39	90.00	2,717.76	39.76	721.73	613.06	108.67	6.641	
10,500.00	7,390.00	10,476.19	7,390.00	55.86	55.82	90.00	2,819.99	38.55	721.07	609.59	111.49	6.468	
10,600.00	7,390.00	10,576.19	7,390.00	57.24	57.22	90.00	2,919.98	37.34	720.41	606.13	114.28	6.304	
10,700.00	7,390.00	10,676.19	7,390.00	58.64	58.64	90.00	3,019.97	36.14	719.75	602.65	117.10	6.147	
10,800.00	7,390.00	10,776.18	7,390.00	60.05	60.06	90.00	3,119.96	34.94	719.08	599.16	119.93	5.996	
10,900.00	7,390.00	10,876.18	7,390.00	61.47	61.49	90.00	3,219.95	33.73	718.42	595.64	122.78	5.851	
11,000.00	7,390.00	10,976.18	7,390.00	62.89	62.93	90.00	3,319.95	32.53	717.76	592.11	125.65	5.713	
11,100.00	7,390.00	11,076.18	7,390.00	64.32	64.38	90.00	3,419.94	31.33	717.10	588.57	128.53	5.579	
11,200.00	7,390.00	11,176.17	7,390.00	65.76	65.83	90.00	3,519.93	30.13	716.43	585.01	131.42	5.451	
11,300.00	7,390.00	11,276.17	7,390.00	67.20	67.29	90.00	3,619.92	28.92	715.77	581.44	134.33	5.328	
11,400.00	7,390.00	11,376.17	7,390.00	68.66	68.75	90.00	3,719.91	27.72	715.11	577.86	137.25	5.210	
11,500.00	7,390.00	11,476.17	7,390.00	70.11	70.23	90.00	3,819.90	26.52	714.44	574.26	140.18	5.097	
11,600.00	7,390.00	11,576.17	7,390.00	71.58	71.70	90.00	3,919.89	25.32	713.78	570.66	143.12	4.987	
11,700.00	7,390.00	11,676.16	7,390.00	73.04	73.18	90.00	4,019.88	24.11	713.12	567.04	146.07	4.882	
11,800.00	7,390.00	11,776.16	7,390.00	74.52	74.67	90.00	4,119.87	22.91	712.45	563.42	149.03	4.781	
11,900.00	7,390.00	11,876.16	7,390.00	75.99	76.16	90.00	4,219.86	21.71	711.79	559.79	152.00	4.683	
12,000.00	7,390.00	11,976.16	7,390.00	77.47	77.65	90.00	4,319.85	20.51	711.13	556.14	154.98	4.588	
12,100.00	7,390.00	12,076.15	7,390.00	78.96	79.15	90.00	4,419.84	19.30	710.46	552.50	157.97	4.498	
12,200.00	7,390.00	12,176.15	7,390.00	80.45	80.65	90.00	4,519.83	18.10	709.80	548.84	160.96	4.410	
12,300.00	7,390.00	12,276.15	7,390.00	81.94	82.16	90.00	4,619.82	16.90	709.14	545.17	163.96	4.325	
12,400.00	7,390.00	12,376.15	7,390.00	83.44	83.67	90.00	4,719.81	15.70	708.47	541.50	166.97	4.243	
12,500.00	7,390.00	12,476.15	7,390.00	84.94	85.18	90.00	4,819.80	14.49	707.81	537.83	169.98	4.164	
12,600.00	7,390.00	12,576.14	7,390.00	86.44	86.69	90.00	4,919.79	13.29	707.15	534.15	173.00	4.088	
12,700.00	7,390.00	12,676.14	7,390.00	87.95	88.21	90.00	5,019.78	12.09	706.48	530.46	176.03	4.014	
12,800.00	7,390.00	12,776.14	7,390.00	89.46	89.73	90.00	5,119.78	10.88	705.82	526.76	179.06	3.942	
12,900.00	7,390.00	12,876.14	7,390.00	90.97	91.25	90.00	5,219.77	9.68	705.16	523.06	182.09	3.873	
13,000.00	7,390.00	12,976.14	7,390.00	92.48	92.77	90.00	5,319.76	8.48	704.49	519.36	185.13	3.805	
13,100.00	7,390.00	13,076.13	7,390.00	94.00	94.30	90.00	5,419.75	7.28	703.83	515.65	188.18	3.740	
13,200.00	7,390.00	13,176.13	7,390.00	95.52	95.83	90.00	5,519.74	6.07	703.17	511.94	191.23	3.677	
13,300.00	7,390.00	13,276.13	7,390.00	97.04	97.36	90.00	5,619.73	4.87	702.50	508.22	194.28	3.616	
13,400.00	7,390.00	13,376.13	7,390.00	98.56	98.89	90.00	5,719.72	3.67	701.84	504.50	197.34	3.557	
13,500.00	7,390.00	13,476.12	7,390.00	100.08	100.43	90.00	5,819.71	2.47	701.18	500.78	200.40	3.499	
13,600.00	7,390.00	13,576.12	7,390.00	101.61	101.96	90.00	5,919.70	1.26	700.51	497.05	203.46	3.443	
13,700.00	7,390.00	13,676.12	7,390.00	103.14	103.50	90.00	6,019.69	0.06	699.85	493.32	206.53	3.389	
13,748.73	7,390.00	13,724.85	7,390.00	103.89	104.25	90.00	6,068.41	-0.52	699.53	491.50	208.03	3.363	
13,767.73	7,390.00	13,743.85	7,390.00	104.18	104.54	90.00	6,087.41	-0.75	699.46	490.85	208.61	3.353	
13,800.00	7,390.00	13,776.12	7,390.00	104.67	105.04	90.00	6,119.68	-1.14	699.64	490.04	209.61	3.338	

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 4G-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 4G-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											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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					
13,821.47	7,390.00	13,797.59	7,390.00	105.01	105.37	90.00	6,141.15	-1.40	699.97	489.70	210.27	3.329						
13,900.00	7,390.00	13,876.10	7,390.00	106.23	106.58	90.00	6,219.66	-2.34	701.44	488.74	212.70	3.298						
14,000.00	7,390.00	13,976.08	7,390.00	107.78	108.13	90.00	6,319.63	-3.55	703.32	487.52	215.80	3.259						
14,100.00	7,390.00	14,076.07	7,390.00	109.34	109.67	90.00	6,419.61	-4.75	705.19	486.30	218.90	3.222						
14,200.00	7,390.00	14,176.05	7,390.00	110.89	111.21	90.00	6,519.58	-5.95	707.07	485.07	222.00	3.185						
14,300.00	7,390.00	14,276.03	7,390.00	112.45	112.76	90.00	6,619.56	-7.15	708.94	483.84	225.10	3.149						
14,400.00	7,390.00	14,376.01	7,390.00	114.01	114.31	90.00	6,719.53	-8.36	710.82	482.61	228.21	3.115						
14,500.00	7,390.00	14,476.00	7,390.00	115.57	115.86	90.00	6,819.51	-9.56	712.70	481.37	231.32	3.081						
14,600.00	7,390.00	14,575.98	7,390.00	117.14	117.41	90.00	6,919.48	-10.76	714.57	480.14	234.43	3.048						
14,625.12	7,390.00	14,595.72	7,390.00	117.53	117.71	90.00	6,939.23	-11.00	715.06	479.97	235.10	3.042 SF						

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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
0.00	0.00	0.00	0.00	0.00	0.00	89.75	0.13	29.93	29.93				
100.00	100.00	100.00	100.00	0.14	0.14	89.75	0.13	29.93	29.93	29.65	0.28	108.436	
200.00	200.00	200.00	200.00	0.50	0.50	89.75	0.13	29.93	29.93	28.94	0.99	30.143	
300.00	300.00	300.00	300.00	0.85	0.85	89.75	0.13	29.93	29.93	28.22	1.71	17.504	
304.33	304.33	304.33	304.33	0.87	0.87	89.75	0.13	29.93	29.93	28.19	1.74	17.192 CC	
400.00	400.00	399.79	399.79	1.21	1.20	90.51	-0.27	30.10	30.10	27.68	2.42	12.444 ES	
500.00	500.00	499.26	499.19	1.57	1.54	96.25	-3.45	31.45	31.65	28.53	3.12	10.142	
600.00	600.00	598.37	598.06	1.93	1.89	105.97	-9.77	34.14	35.56	31.71	3.85	9.236	
700.00	700.00	696.88	696.04	2.29	2.24	116.69	-19.17	38.14	42.87	38.26	4.61	9.307	
800.00	800.00	795.43	793.71	2.65	2.61	125.82	-31.23	43.26	53.72	48.38	5.34	10.055	
900.00	899.98	894.55	891.90	2.99	3.00	-96.36	-43.68	48.56	65.99	59.95	6.03	10.935	
1,000.00	999.84	993.72	990.14	3.33	3.39	-95.48	-56.14	53.86	78.82	72.10	6.72	11.733	
1,100.00	1,099.45	1,092.81	1,088.30	3.67	3.79	-96.95	-68.59	59.15	92.02	84.60	7.41	12.410	
1,204.08	1,202.74	1,195.72	1,190.24	4.04	4.20	-100.00	-81.53	64.65	106.42	98.26	8.16	13.041	
1,300.00	1,297.71	1,290.43	1,284.07	4.39	4.58	-103.17	-93.43	69.71	120.31	111.45	8.86	13.573	
1,400.00	1,396.72	1,389.16	1,381.87	4.77	4.98	-105.77	-105.84	74.98	135.10	125.49	9.61	14.059	
1,500.00	1,495.72	1,487.89	1,479.68	5.15	5.39	-107.86	-118.24	80.26	150.11	139.75	10.36	14.483	
1,600.00	1,594.73	1,586.62	1,577.49	5.54	5.79	-109.57	-130.65	85.53	165.28	154.16	11.13	14.855	
1,700.00	1,693.74	1,685.36	1,675.30	5.93	6.19	-111.00	-143.06	90.81	180.57	168.68	11.89	15.183	
1,800.00	1,792.74	1,784.09	1,773.11	6.32	6.60	-112.19	-155.46	96.08	195.96	183.29	12.67	15.472	
1,900.00	1,891.75	1,882.82	1,870.92	6.72	7.00	-113.22	-167.87	101.36	211.41	197.97	13.44	15.730	
2,000.00	1,990.76	1,981.56	1,968.72	7.12	7.41	-114.10	-180.28	106.63	226.92	212.70	14.22	15.960	
2,100.00	2,089.76	2,080.29	2,066.53	7.52	7.82	-114.88	-192.68	111.91	242.48	227.48	15.00	16.167	
2,200.00	2,188.77	2,179.02	2,164.34	7.92	8.22	-115.55	-205.09	117.18	258.07	242.29	15.78	16.354	
2,300.00	2,287.78	2,277.76	2,262.15	8.33	8.63	-116.16	-217.50	122.46	273.70	257.13	16.56	16.523	
2,400.00	2,386.78	2,376.49	2,359.96	8.74	9.04	-116.69	-229.91	127.73	289.35	272.00	17.35	16.677	
2,500.00	2,485.79	2,475.22	2,457.77	9.14	9.44	-117.17	-242.31	133.01	305.02	286.89	18.14	16.818	
2,600.00	2,584.80	2,573.96	2,555.57	9.55	9.85	-117.61	-254.72	138.28	320.72	301.79	18.92	16.948	
2,700.00	2,683.81	2,672.69	2,653.38	9.96	10.26	-118.00	-267.13	143.56	336.43	316.72	19.71	17.067	
2,800.00	2,782.81	2,771.42	2,751.19	10.37	10.67	-118.36	-279.53	148.83	352.15	331.65	20.50	17.177	
2,900.00	2,881.82	2,870.16	2,849.00	10.78	11.08	-118.69	-291.94	154.11	367.89	346.60	21.29	17.279	
3,000.00	2,980.83	2,968.89	2,946.81	11.19	11.48	-118.99	-304.35	159.38	383.63	361.55	22.08	17.373	
3,100.00	3,079.83	3,067.62	3,044.62	11.60	11.89	-119.27	-316.75	164.66	399.39	376.52	22.87	17.461	
3,200.00	3,178.84	3,166.35	3,142.42	12.02	12.30	-119.52	-329.16	169.93	415.16	391.49	23.66	17.543	
3,300.00	3,277.85	3,265.09	3,240.23	12.43	12.71	-119.76	-341.57	175.21	430.93	406.47	24.46	17.620	
3,400.00	3,376.85	3,363.82	3,338.04	12.84	13.12	-119.98	-353.98	180.49	446.71	421.46	25.25	17.692	
3,500.00	3,475.86	3,462.55	3,435.85	13.25	13.53	-120.19	-366.38	185.76	462.49	436.45	26.04	17.760	
3,600.00	3,574.87	3,561.29	3,533.66	13.67	13.93	-120.38	-378.79	191.04	478.28	451.45	26.83	17.823	
3,700.00	3,673.87	3,660.02	3,631.47	14.08	14.34	-120.56	-391.20	196.31	494.08	466.45	27.63	17.883	
3,800.00	3,772.88	3,758.75	3,729.27	14.49	14.75	-120.73	-403.60	201.59	509.88	481.46	28.42	17.940	
3,900.00	3,871.89	3,857.49	3,827.08	14.91	15.16	-120.89	-416.01	206.86	525.68	496.47	29.22	17.993	
4,000.00	3,970.90	3,956.22	3,924.89	15.32	15.57	-121.03	-428.42	212.14	541.49	511.48	30.01	18.044	
4,100.00	4,069.90	4,054.95	4,022.70	15.74	15.98	-121.18	-440.83	217.41	557.30	526.50	30.80	18.092	
4,200.00	4,168.91	4,153.69	4,120.51	16.15	16.39	-121.31	-453.23	222.69	573.12	541.52	31.60	18.137	
4,300.00	4,267.92	4,252.42	4,218.32	16.57	16.80	-121.43	-465.64	227.96	588.93	556.54	32.39	18.180	
4,400.00	4,366.92	4,351.15	4,316.12	16.98	17.21	-121.55	-478.05	233.24	604.75	571.56	33.19	18.222	
4,500.00	4,465.93	4,449.89	4,413.93	17.40	17.61	-121.67	-490.45	238.51	620.57	586.59	33.98	18.261	
4,600.00	4,564.94	4,548.62	4,511.74	17.81	18.02	-121.77	-502.86	243.79	636.40	601.62	34.78	18.298	
4,700.00	4,663.94	4,647.47	4,609.67	18.23	18.43	-121.88	-515.28	249.07	652.22	616.65	35.58	18.334	
4,800.00	4,762.95	4,746.50	4,723.91	18.64	18.89	-122.15	-527.60	254.30	666.83	630.35	36.48	18.280	
4,900.00	4,861.96	4,877.98	4,839.04	19.06	19.32	-122.73	-535.70	257.75	679.04	641.70	37.34	18.183	
5,000.00	4,960.96	4,993.53	4,954.51	19.48	19.72	-123.59	-539.54	259.38	688.94	650.77	38.17	18.050	

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 4G-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 4G-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		
5,100.00	5,059.97	5,098.99	5,059.97	19.89	20.04	-124.59	-539.87	259.52	697.06	658.16	38.89	17.922		
5,200.00	5,158.98	5,198.00	5,158.98	20.31	20.32	-125.52	-539.87	259.52	705.19	665.60	39.59	17.813		
5,300.00	5,257.99	5,297.01	5,257.99	20.72	20.61	-126.43	-539.87	259.52	713.50	673.22	40.28	17.713		
5,400.00	5,356.99	5,396.01	5,356.99	21.14	20.90	-127.33	-539.87	259.52	721.99	681.02	40.97	17.620		
5,500.00	5,456.00	5,495.02	5,456.00	21.56	21.20	-128.20	-539.87	259.52	730.65	688.99	41.67	17.536		
5,600.00	5,555.01	5,594.03	5,555.01	21.97	21.49	-129.05	-539.87	259.52	739.48	697.12	42.36	17.458		
5,700.00	5,654.01	5,693.03	5,654.01	22.39	21.79	-129.88	-539.87	259.52	748.47	705.42	43.05	17.386		
5,800.00	5,753.02	5,792.04	5,753.02	22.81	22.09	-130.69	-539.87	259.52	757.61	713.87	43.74	17.321		
5,900.00	5,852.03	5,891.05	5,852.03	23.22	22.38	-131.48	-539.87	259.52	766.90	722.47	44.43	17.261		
6,000.00	5,951.03	5,990.05	5,951.03	23.64	22.69	-132.25	-539.87	259.52	776.34	731.22	45.12	17.206		
6,100.00	6,050.04	6,089.06	6,050.04	24.06	22.99	-133.01	-539.87	259.52	785.91	740.10	45.81	17.156		
6,200.00	6,149.05	6,188.07	6,149.05	24.47	23.29	-133.75	-539.87	259.52	795.62	749.12	46.50	17.111		
6,300.00	6,248.05	6,287.08	6,248.05	24.89	23.60	-134.46	-539.87	259.52	805.45	758.27	47.19	17.069		
6,400.00	6,347.06	6,386.08	6,347.06	25.31	23.91	-135.17	-539.87	259.52	815.41	767.54	47.88	17.032		
6,500.00	6,446.07	6,485.09	6,446.07	25.72	24.22	-135.85	-539.87	259.52	825.49	776.92	48.56	16.998		
6,600.00	6,545.07	6,584.10	6,545.07	26.14	24.53	-136.52	-539.87	259.52	835.68	786.43	49.25	16.967		
6,665.43	6,609.86	6,648.88	6,609.86	26.41	24.73	-136.95	-539.87	259.52	842.41	792.71	49.70	16.949		
6,700.00	6,644.15	6,683.17	6,644.15	26.55	24.84	-135.49	-539.87	259.52	845.99	796.05	49.94	16.941		
6,750.00	6,693.86	6,732.88	6,693.86	26.74	24.99	167.52	-539.87	259.52	851.19	800.92	50.27	16.933		
6,800.00	6,743.50	6,782.52	6,743.50	26.90	25.15	138.08	-539.87	259.52	856.37	805.79	50.59	16.929		
6,850.00	6,792.82	6,832.16	6,793.13	27.05	25.30	122.41	-539.27	259.52	861.56	810.66	50.89	16.929		
6,900.00	6,841.57	6,882.27	6,843.09	27.19	25.45	113.94	-535.47	259.50	866.72	815.54	51.18	16.935		
6,950.00	6,889.53	6,932.83	6,893.09	27.31	25.59	108.87	-528.10	259.46	871.85	820.40	51.45	16.946		
7,000.00	6,936.45	6,983.84	6,942.90	27.41	25.73	105.55	-517.11	259.40	876.90	825.21	51.70	16.962		
7,050.00	6,982.12	7,035.32	6,992.24	27.51	25.85	103.24	-502.46	259.32	881.87	829.94	51.93	16.981		
7,100.00	7,026.30	7,087.28	7,040.84	27.59	25.97	101.55	-484.12	259.22	886.71	834.56	52.15	17.004		
7,150.00	7,068.78	7,139.72	7,088.41	27.66	26.08	100.27	-462.08	259.10	891.40	839.05	52.35	17.028		
7,200.00	7,109.36	7,192.64	7,134.65	27.71	26.18	99.28	-436.38	258.96	895.92	843.38	52.54	17.053		
7,250.00	7,147.83	7,246.03	7,179.26	27.76	26.28	98.49	-407.06	258.80	900.23	847.52	52.72	17.077		
7,300.00	7,184.01	7,299.90	7,221.92	27.79	26.38	97.86	-374.19	258.62	904.33	851.43	52.89	17.098		
7,350.00	7,217.73	7,354.22	7,262.32	27.82	26.47	97.35	-337.89	258.42	908.16	855.10	53.07	17.114		
7,400.00	7,248.81	7,408.98	7,300.14	27.83	26.57	96.94	-298.31	258.21	911.73	858.48	53.24	17.123		
7,450.00	7,277.12	7,464.17	7,335.09	27.84	26.67	96.60	-255.62	257.98	914.99	861.56	53.43	17.124		
7,500.00	7,302.50	7,519.74	7,366.85	27.85	26.78	96.33	-210.03	257.73	917.94	864.30	53.64	17.114		
7,550.00	7,324.84	7,575.68	7,395.16	27.84	26.89	96.10	-161.80	257.47	920.55	866.69	53.86	17.092		
7,600.00	7,344.02	7,631.94	7,419.74	27.84	27.02	95.93	-111.22	257.19	922.80	868.70	54.10	17.056		
7,650.00	7,359.96	7,688.48	7,440.38	27.84	27.16	95.79	-58.60	256.91	924.68	870.30	54.38	17.005		
7,700.00	7,372.58	7,745.25	7,456.85	27.84	27.33	95.69	-4.28	256.61	926.17	871.49	54.68	16.938		
7,750.00	7,381.81	7,802.21	7,469.01	27.86	27.50	95.62	51.34	256.31	927.27	872.25	55.02	16.854		
7,800.00	7,387.61	7,859.29	7,476.72	27.92	27.70	95.58	107.89	256.00	927.96	872.57	55.39	16.754		
7,850.00	7,389.95	7,916.46	7,479.91	28.02	27.92	95.56	164.95	255.69	928.25	872.45	55.79	16.638		
7,858.73	7,390.00	7,926.44	7,480.00	28.04	27.95	95.56	174.93	255.64	928.25	872.39	55.86	16.616		
7,900.00	7,390.00	7,967.89	7,480.00	28.17	28.13	95.56	216.38	255.41	928.25	872.04	56.21	16.514		
8,000.00	7,390.00	8,067.89	7,480.00	28.61	28.60	95.56	316.38	254.87	928.25	871.10	57.15	16.243		
8,100.00	7,390.00	8,167.89	7,480.00	29.16	29.16	95.56	416.38	254.32	928.24	870.00	58.24	15.939		
8,200.00	7,390.00	8,267.89	7,480.00	29.79	29.79	95.56	516.37	253.78	928.24	868.76	59.48	15.606		
8,300.00	7,390.00	8,367.89	7,480.00	30.50	30.49	95.56	616.37	253.24	928.24	867.38	60.86	15.252		
8,400.00	7,390.00	8,467.89	7,480.00	31.27	31.26	95.56	716.37	252.69	928.23	865.86	62.37	14.883		
8,500.00	7,390.00	8,567.89	7,480.00	32.10	32.08	95.56	816.37	252.15	928.23	864.23	64.00	14.504		
8,600.00	7,390.00	8,667.89	7,480.00	32.98	32.97	95.56	916.37	251.61	928.22	862.48	65.74	14.119		
8,700.00	7,390.00	8,767.89	7,480.00	33.91	33.90	95.56	1,016.37	251.06	928.22	860.63	67.59	13.734		
8,800.00	7,390.00	8,867.89	7,480.00	34.89	34.88	95.56	1,116.37	250.52	928.22	858.69	69.53	13.351		

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 4G-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 4G-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	
8,900.00	7,390.00	8,967.89	7,480.00	35.91	35.91	95.56	1,216.36	249.98	928.21	856.66	71.55	12.972	
9,000.00	7,390.00	9,067.89	7,480.00	36.96	36.97	95.56	1,316.36	249.43	928.21	854.55	73.66	12.601	
9,100.00	7,390.00	9,167.89	7,480.00	38.06	38.08	95.56	1,416.36	248.89	928.20	852.36	75.84	12.238	
9,200.00	7,390.00	9,267.89	7,480.00	39.18	39.21	95.56	1,516.36	248.35	928.20	850.11	78.09	11.886	
9,300.00	7,390.00	9,367.89	7,480.00	40.34	40.38	95.56	1,616.36	247.80	928.20	847.79	80.40	11.544	
9,400.00	7,390.00	9,467.89	7,480.00	41.52	41.57	95.56	1,716.36	247.26	928.19	845.42	82.77	11.214	
9,500.00	7,390.00	9,567.89	7,480.00	42.73	42.79	95.56	1,816.36	246.72	928.19	843.00	85.19	10.896	
9,600.00	7,390.00	9,667.89	7,480.00	43.96	44.03	95.56	1,916.35	246.17	928.18	840.53	87.65	10.589	
9,700.00	7,390.00	9,767.89	7,480.00	45.22	45.30	95.56	2,016.35	245.63	928.18	838.02	90.16	10.295	
9,800.00	7,390.00	9,867.89	7,480.00	46.49	46.58	95.56	2,116.35	245.09	928.17	835.46	92.71	10.012	
9,900.00	7,390.00	9,967.89	7,480.00	47.79	47.88	95.56	2,216.35	244.54	928.17	832.87	95.30	9.740	
10,000.00	7,390.00	10,067.89	7,480.00	49.10	49.20	95.56	2,316.35	244.00	928.17	830.25	97.92	9.479	
10,100.00	7,390.00	10,167.89	7,480.00	50.42	50.54	95.56	2,416.35	243.46	928.16	827.59	100.57	9.229	
10,200.00	7,390.00	10,267.89	7,480.00	51.76	51.88	95.56	2,516.34	242.91	928.16	824.91	103.25	8.990	
10,300.00	7,390.00	10,367.89	7,480.00	53.11	53.25	95.56	2,616.34	242.37	928.15	822.20	105.95	8.760	
10,400.00	7,390.00	10,467.89	7,480.00	54.48	54.62	95.56	2,716.34	241.83	928.15	819.46	108.69	8.540	
10,500.00	7,390.00	10,567.89	7,480.00	55.86	56.00	95.56	2,816.34	241.28	928.15	816.71	111.44	8.329	
10,600.00	7,390.00	10,667.89	7,480.00	57.24	57.40	95.56	2,916.34	240.74	928.14	813.93	114.22	8.126	
10,700.00	7,390.00	10,767.89	7,480.00	58.64	58.81	95.56	3,016.34	240.19	928.14	811.13	117.01	7.932	
10,800.00	7,390.00	10,867.89	7,480.00	60.05	60.22	95.56	3,116.34	239.65	928.13	808.31	119.82	7.746	
10,900.00	7,390.00	10,967.89	7,480.00	61.47	61.64	95.56	3,216.33	239.11	928.13	805.48	122.66	7.567	
11,000.00	7,390.00	11,067.89	7,480.00	62.89	63.07	95.56	3,316.33	238.56	928.13	802.62	125.50	7.395	
11,100.00	7,390.00	11,167.89	7,480.00	64.32	64.51	95.56	3,416.33	238.02	928.12	799.76	128.36	7.230	
11,200.00	7,390.00	11,267.89	7,480.00	65.76	65.96	95.56	3,516.33	237.48	928.12	796.88	131.24	7.072	
11,300.00	7,390.00	11,367.89	7,480.00	67.20	67.41	95.56	3,616.33	236.93	928.11	793.99	134.13	6.920	
11,400.00	7,390.00	11,467.89	7,480.00	68.66	68.86	95.56	3,716.33	236.39	928.11	791.08	137.03	6.773	
11,500.00	7,390.00	11,567.89	7,480.00	70.11	70.33	95.56	3,816.33	235.85	928.11	788.17	139.94	6.632	
11,600.00	7,390.00	11,667.89	7,480.00	71.58	71.80	95.56	3,916.32	235.30	928.10	785.24	142.86	6.497	
11,700.00	7,390.00	11,767.89	7,480.00	73.04	73.27	95.56	4,016.32	234.76	928.10	782.31	145.79	6.366	
11,800.00	7,390.00	11,867.89	7,480.00	74.52	74.75	95.56	4,116.32	234.22	928.09	779.36	148.73	6.240	
11,900.00	7,390.00	11,967.89	7,480.00	75.99	76.23	95.56	4,216.32	233.67	928.09	776.41	151.69	6.119	
12,000.00	7,390.00	12,067.89	7,480.00	77.47	77.72	95.56	4,316.32	233.13	928.09	773.44	154.64	6.001	
12,100.00	7,390.00	12,167.89	7,480.00	78.96	79.21	95.56	4,416.32	232.59	928.08	770.47	157.61	5.888	
12,200.00	7,390.00	12,267.89	7,480.00	80.45	80.70	95.56	4,516.32	232.04	928.08	767.49	160.59	5.779	
12,300.00	7,390.00	12,367.89	7,480.00	81.94	82.20	95.57	4,616.31	231.50	928.07	764.51	163.57	5.674	
12,400.00	7,390.00	12,467.89	7,480.00	83.44	83.70	95.57	4,716.31	230.96	928.07	761.51	166.56	5.572	
12,500.00	7,390.00	12,567.89	7,480.00	84.94	85.20	95.57	4,816.31	230.41	928.07	758.52	169.55	5.474	
12,600.00	7,390.00	12,667.89	7,480.00	86.44	86.71	95.57	4,916.31	229.87	928.06	755.51	172.55	5.378	
12,700.00	7,390.00	12,767.89	7,480.00	87.95	88.22	95.57	5,016.31	229.33	928.06	752.50	175.56	5.286	
12,800.00	7,390.00	12,867.89	7,480.00	89.46	89.73	95.57	5,116.31	228.78	928.05	749.48	178.57	5.197	
12,900.00	7,390.00	12,967.89	7,480.00	90.97	91.25	95.57	5,216.30	228.24	928.05	746.46	181.59	5.111	
13,000.00	7,390.00	13,067.89	7,480.00	92.48	92.76	95.57	5,316.30	227.70	928.05	743.44	184.61	5.027	
13,100.00	7,390.00	13,167.89	7,480.00	94.00	94.28	95.57	5,416.30	227.15	928.04	740.41	187.63	4.946	
13,200.00	7,390.00	13,267.89	7,480.00	95.52	95.80	95.57	5,516.30	226.61	928.04	737.37	190.67	4.867	
13,300.00	7,390.00	13,367.89	7,480.00	97.04	97.33	95.57	5,616.30	226.07	928.03	734.33	193.70	4.791	
13,400.00	7,390.00	13,467.89	7,480.00	98.56	98.85	95.57	5,716.30	225.52	928.03	731.29	196.74	4.717	
13,500.00	7,390.00	13,567.89	7,480.00	100.08	100.38	95.57	5,816.30	224.98	928.03	728.24	199.78	4.645	
13,600.00	7,390.00	13,667.89	7,480.00	101.61	101.91	95.57	5,916.29	224.44	928.02	725.19	202.83	4.575	
13,700.00	7,390.00	13,767.89	7,480.00	103.14	103.44	95.57	6,016.29	223.89	928.02	722.14	205.88	4.508	
13,748.73	7,390.00	13,816.61	7,480.00	103.89	104.19	95.57	6,065.02	223.63	928.02	720.65	207.37	4.475	
13,748.84	7,390.00	13,816.73	7,480.00	103.89	104.19	95.57	6,065.14	223.63	928.02	720.64	207.37	4.475	
13,800.00	7,390.00	13,867.88	7,480.00	104.67	104.98	95.56	6,116.29	223.35	928.47	719.53	208.94	4.444	

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 4G-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 4G-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				
13,821.47	7,390.00	13,889.35	7,480.00	105.01	105.31	95.56	6,137.76	223.23	928.93	719.33	209.60	4.432				
13,900.00	7,390.00	13,967.85	7,480.00	106.23	106.51	95.55	6,216.26	222.81	930.91	718.90	212.02	4.391				
14,000.00	7,390.00	14,067.82	7,480.00	107.78	108.05	95.53	6,316.22	222.26	933.44	718.34	215.10	4.340				
14,100.00	7,390.00	14,167.79	7,480.00	109.34	109.58	95.52	6,416.19	221.72	935.96	717.78	218.18	4.290				
14,200.00	7,390.00	14,267.76	7,480.00	110.89	111.12	95.50	6,516.16	221.18	938.48	717.21	221.27	4.241				
14,300.00	7,390.00	14,367.72	7,480.00	112.45	112.66	95.49	6,616.12	220.63	941.01	716.65	224.36	4.194				
14,400.00	7,390.00	14,467.69	7,480.00	114.01	114.20	95.48	6,716.09	220.09	943.53	716.08	227.45	4.148				
14,500.00	7,390.00	14,567.66	7,480.00	115.57	115.75	95.46	6,816.06	219.55	946.05	715.50	230.55	4.103				
14,600.00	7,390.00	14,667.63	7,480.00	117.14	117.29	95.45	6,916.02	219.00	948.58	714.93	233.65	4.060				
14,625.12	7,390.00	14,691.86	7,480.00	117.53	117.66	95.44	6,940.26	218.87	949.21	714.80	234.41	4.049 SF				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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 4K-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	89.75	0.17	40.00	40.00					
100.00	100.00	100.00	100.00	0.14	0.14	89.75	0.17	40.00	40.00	39.73	0.28	144.919		
200.00	200.00	200.00	200.00	0.50	0.50	89.75	0.17	40.00	40.00	39.01	0.99	40.284		
300.00	300.00	300.00	300.00	0.85	0.85	89.75	0.17	40.00	40.00	38.29	1.71	23.394		
400.00	400.00	400.00	400.00	1.21	1.21	89.75	0.17	40.00	40.00	37.57	2.43	16.483		
500.00	500.00	500.00	500.00	1.57	1.57	89.75	0.17	40.00	40.00	36.86	3.14	12.724		
600.00	600.00	600.00	600.00	1.93	1.93	89.75	0.17	40.00	40.00	36.14	3.86	10.361	CC, ES	
700.00	700.00	699.30	699.28	2.29	2.27	91.88	-1.34	40.83	40.85	36.29	4.56	8.956		
800.00	800.00	798.36	798.20	2.65	2.60	97.70	-5.85	43.29	43.72	38.46	5.26	8.313		
900.00	899.98	896.98	896.44	2.99	2.94	-122.92	-13.33	47.37	50.27	44.31	5.96	8.438		
1,000.00	999.84	995.03	993.78	3.33	3.29	-118.62	-23.68	53.03	61.45	54.79	6.65	9.238		
1,100.00	1,099.45	1,094.02	1,091.87	3.67	3.66	-117.18	-35.40	59.44	75.49	68.15	7.34	10.284		
1,204.08	1,202.74	1,196.79	1,193.70	4.04	4.05	-118.14	-47.57	66.08	91.81	83.74	8.07	11.375		
1,300.00	1,297.71	1,291.34	1,287.39	4.39	4.41	-119.78	-58.76	72.20	107.73	98.97	8.76	12.298		
1,400.00	1,396.72	1,389.91	1,385.06	4.77	4.79	-121.04	-70.43	78.57	124.39	114.90	9.49	13.110		
1,500.00	1,495.72	1,488.48	1,482.73	5.15	5.18	-122.00	-82.10	84.95	141.10	130.87	10.23	13.797		
1,600.00	1,594.73	1,587.05	1,580.39	5.54	5.57	-122.76	-93.76	91.32	157.83	146.86	10.97	14.384		
1,700.00	1,693.74	1,685.62	1,678.06	5.93	5.97	-123.38	-105.43	97.69	174.59	162.87	11.73	14.891		
1,800.00	1,792.74	1,784.19	1,775.73	6.32	6.36	-123.88	-117.10	104.07	191.37	178.89	12.48	15.331		
1,900.00	1,891.75	1,882.76	1,873.40	6.72	6.76	-124.31	-128.77	110.44	208.15	194.91	13.24	15.717		
2,000.00	1,990.76	1,981.33	1,971.07	7.12	7.15	-124.67	-140.44	116.82	224.95	210.94	14.01	16.058		
2,100.00	2,089.76	2,079.91	2,068.74	7.52	7.55	-124.98	-152.10	123.19	241.76	226.98	14.78	16.360		
2,200.00	2,188.77	2,178.48	2,166.41	7.92	7.95	-125.25	-163.77	129.57	258.56	243.02	15.55	16.631		
2,300.00	2,287.78	2,277.05	2,264.08	8.33	8.35	-125.48	-175.44	135.94	275.38	259.06	16.32	16.874		
2,400.00	2,386.78	2,375.62	2,361.75	8.74	8.75	-125.69	-187.11	142.32	292.20	275.10	17.09	17.094		
2,500.00	2,485.79	2,474.19	2,459.42	9.14	9.15	-125.88	-198.78	148.69	309.02	291.15	17.87	17.293		
2,600.00	2,584.80	2,572.76	2,557.09	9.55	9.56	-126.05	-210.44	155.06	325.85	307.20	18.65	17.474		
2,700.00	2,683.81	2,671.33	2,654.76	9.96	9.96	-126.20	-222.11	161.44	342.67	323.25	19.43	17.640		
2,800.00	2,782.81	2,769.90	2,752.43	10.37	10.36	-126.34	-233.78	167.81	359.50	339.30	20.20	17.793		
2,900.00	2,881.82	2,868.47	2,850.10	10.78	10.77	-126.46	-245.45	174.19	376.33	355.35	20.99	17.933		
3,000.00	2,980.83	2,967.04	2,947.77	11.19	11.17	-126.58	-257.12	180.56	393.17	371.40	21.77	18.063		
3,100.00	3,079.83	3,065.61	3,045.43	11.60	11.57	-126.68	-268.78	186.94	410.00	387.45	22.55	18.183		
3,200.00	3,178.84	3,164.18	3,143.10	12.02	11.98	-126.78	-280.45	193.31	426.84	403.51	23.33	18.295		
3,300.00	3,277.85	3,262.75	3,240.77	12.43	12.38	-126.87	-292.12	199.69	443.67	419.56	24.11	18.398		
3,400.00	3,376.85	3,361.32	3,338.44	12.84	12.79	-126.95	-303.79	206.06	460.51	435.61	24.90	18.495		
3,500.00	3,475.86	3,459.89	3,436.11	13.25	13.19	-127.03	-315.46	212.44	477.35	451.67	25.68	18.586		
3,600.00	3,574.87	3,558.46	3,533.78	13.67	13.60	-127.10	-327.12	218.81	494.19	467.72	26.47	18.671		
3,700.00	3,673.87	3,657.03	3,631.45	14.08	14.00	-127.17	-338.79	225.18	511.03	483.78	27.25	18.751		
3,800.00	3,772.88	3,755.60	3,729.12	14.49	14.41	-127.23	-350.46	231.56	527.87	499.83	28.04	18.826		
3,900.00	3,871.89	3,854.17	3,826.79	14.91	14.81	-127.29	-362.13	237.93	544.71	515.89	28.82	18.897		
4,000.00	3,970.90	3,952.74	3,924.46	15.32	15.22	-127.34	-373.80	244.31	561.55	531.94	29.61	18.964		
4,100.00	4,069.90	4,051.31	4,022.13	15.74	15.62	-127.39	-385.46	250.68	578.40	548.00	30.40	19.027		
4,200.00	4,168.91	4,149.88	4,119.80	16.15	16.03	-127.44	-397.13	257.06	595.24	564.05	31.18	19.087		
4,300.00	4,267.92	4,248.45	4,217.47	16.57	16.44	-127.49	-408.80	263.43	612.08	580.11	31.97	19.144		
4,400.00	4,366.92	4,347.02	4,315.14	16.98	16.84	-127.53	-420.47	269.81	628.92	596.17	32.76	19.198		
4,500.00	4,465.93	4,445.59	4,412.81	17.40	17.25	-127.57	-432.14	276.18	645.77	612.22	33.55	19.250		
4,600.00	4,564.94	4,544.16	4,510.47	17.81	17.65	-127.61	-443.80	282.56	662.61	628.28	34.34	19.298		
4,700.00	4,663.94	4,642.73	4,608.14	18.23	18.06	-127.65	-455.47	288.93	679.46	644.33	35.12	19.345		
4,800.00	4,762.95	4,741.30	4,705.81	18.64	18.47	-127.69	-467.14	295.30	696.30	660.39	35.91	19.389		
4,900.00	4,861.96	4,839.87	4,803.48	19.06	18.87	-127.72	-478.81	301.68	713.15	676.45	36.70	19.432		
5,000.00	4,960.96	4,938.44	4,901.15	19.48	19.28	-127.75	-490.48	308.05	729.99	692.50	37.49	19.472		
5,100.00	5,059.97	5,037.01	4,998.82	19.89	19.69	-127.78	-502.14	314.43	746.84	708.56	38.28	19.511		

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 4G-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 4G-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 4K-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	
5,200.00	5,158.98	5,135.58	5,096.49	20.31	20.09	-127.81	-513.81	320.80	763.68	724.62	39.07	19.549		
5,300.00	5,257.99	5,250.20	5,210.27	20.72	20.55	-127.95	-525.94	327.43	779.69	739.72	39.97	19.508		
5,400.00	5,356.99	5,368.80	5,328.47	21.14	21.00	-128.35	-534.32	332.01	793.28	752.43	40.86	19.417		
5,500.00	5,456.00	5,487.64	5,447.22	21.56	21.41	-129.02	-538.40	334.24	804.46	762.76	41.70	19.293		
5,600.00	5,555.01	5,595.43	5,555.01	21.97	21.75	-129.83	-538.83	334.47	813.69	771.25	42.43	19.176		
5,700.00	5,654.01	5,694.44	5,654.01	22.39	22.04	-130.58	-538.83	334.47	822.81	779.69	43.13	19.080		
5,800.00	5,753.02	5,793.45	5,753.02	22.81	22.33	-131.31	-538.83	334.47	832.08	788.26	43.82	18.990		
5,900.00	5,852.03	5,892.46	5,852.03	23.22	22.63	-132.02	-538.83	334.47	841.48	796.97	44.51	18.906		
6,000.00	5,951.03	5,991.46	5,951.03	23.64	22.93	-132.72	-538.83	334.47	851.00	805.80	45.20	18.827		
6,100.00	6,050.04	6,090.47	6,050.04	24.06	23.23	-133.41	-538.83	334.47	860.65	814.76	45.89	18.754		
6,200.00	6,149.05	6,189.48	6,149.05	24.47	23.53	-134.07	-538.83	334.47	870.42	823.84	46.58	18.685		
6,300.00	6,248.05	6,288.48	6,248.05	24.89	23.83	-134.73	-538.83	334.47	880.31	833.04	47.27	18.621		
6,400.00	6,347.06	6,387.49	6,347.06	25.31	24.14	-135.37	-538.83	334.47	890.31	842.34	47.97	18.562		
6,500.00	6,446.07	6,486.50	6,446.07	25.72	24.44	-135.99	-538.83	334.47	900.42	851.76	48.66	18.506		
6,600.00	6,545.07	6,585.50	6,545.07	26.14	24.75	-136.61	-538.83	334.47	910.63	861.28	49.35	18.454		
6,665.43	6,609.86	6,650.29	6,609.86	26.41	24.95	-137.00	-538.83	334.47	917.36	867.57	49.80	18.421		
6,700.00	6,644.15	6,684.58	6,644.15	26.55	25.06	-155.53	-538.83	334.47	920.95	870.91	50.03	18.406		
6,750.00	6,693.86	6,734.29	6,693.86	26.74	25.21	-167.49	-538.83	334.47	926.14	875.78	50.36	18.389		
6,800.00	6,743.50	6,783.93	6,743.50	26.90	25.37	-138.03	-538.83	334.47	931.33	880.65	50.68	18.376		
6,850.00	6,792.82	6,833.24	6,792.82	27.05	25.52	-122.37	-538.83	334.47	936.51	885.52	50.98	18.368		
6,900.00	6,841.57	6,882.00	6,841.57	27.19	25.67	-114.08	-538.83	334.47	941.73	890.45	51.28	18.365		
6,950.00	6,889.53	6,929.96	6,889.53	27.31	25.83	-109.35	-538.83	334.47	947.07	895.51	51.56	18.368		
7,000.00	6,936.45	6,976.83	6,936.45	27.41	25.97	-106.49	-537.44	334.48	952.60	900.76	51.84	18.377		
7,050.00	6,982.12	7,022.89	6,982.12	27.51	26.12	-104.63	-532.58	334.53	958.29	906.19	52.10	18.394		
7,100.00	7,026.30	7,066.11	7,026.30	27.59	26.26	-103.40	-524.02	334.62	964.10	911.76	52.34	18.420		
7,150.00	7,068.78	7,108.58	7,068.78	27.66	26.39	-102.57	-511.54	334.75	970.00	917.43	52.57	18.452		
7,200.00	7,109.36	7,149.38	7,109.36	27.71	26.52	-102.02	-494.90	334.92	975.95	923.17	52.77	18.493		
7,250.00	7,147.83	7,187.58	7,147.83	27.76	26.64	-101.68	-473.89	335.13	981.90	928.94	52.96	18.539		
7,300.00	7,184.01	7,223.86	7,184.01	27.79	26.75	-101.48	-448.30	335.40	987.82	934.68	53.13	18.592		
7,350.00	7,217.73	7,257.47	7,217.73	27.82	26.86	-101.39	-417.93	335.71	993.63	940.35	53.28	18.648		
7,400.00	7,248.81	7,288.28	7,248.81	27.83	26.96	-101.38	-382.64	336.07	999.29	945.88	53.42	18.707		
7,450.00	7,277.12	7,317.70	7,277.12	27.84	27.06	-101.43	-342.34	336.48	1,004.74	951.20	53.54	18.765		
7,500.00	7,302.50	7,343.06	7,302.50	27.85	27.16	-101.52	-297.01	336.94	1,009.92	956.25	53.66	18.819		
7,550.00	7,324.84	7,365.42	7,324.84	27.87	27.27	-101.63	-246.70	337.46	1,014.75	960.96	53.79	18.865		
7,600.00	7,344.02	7,384.63	7,344.02	27.84	27.38	-101.76	-191.60	338.02	1,019.18	965.25	53.93	18.897		
7,650.00	7,359.96	7,399.31	7,359.96	27.84	27.51	-101.89	-132.04	338.63	1,023.15	969.05	54.10	18.911		
7,700.00	7,372.58	7,408.31	7,372.58	27.84	27.66	-102.02	-68.48	339.28	1,026.60	972.28	54.32	18.900		
7,750.00	7,381.81	7,417.46	7,381.81	27.86	27.83	-102.12	-1.52	339.97	1,029.47	974.88	54.59	18.860		
7,800.00	7,387.61	7,423.54	7,387.61	27.92	28.04	-102.21	68.08	340.68	1,031.72	976.80	54.92	18.787		
7,850.00	7,389.95	7,425.30	7,389.95	28.02	28.27	-102.26	139.42	341.41	1,033.31	977.99	55.32	18.679		
7,858.73	7,390.00	7,426.87	7,390.00	28.04	28.32	-102.27	151.98	341.54	1,033.52	978.12	55.40	18.657		
7,900.00	7,390.00	7,426.92	7,390.00	28.17	28.50	-102.28	201.02	342.04	1,034.22	978.46	55.75	18.551		
8,000.00	7,390.00	7,426.91	7,390.00	28.61	28.94	-102.26	301.00	343.06	1,035.74	979.09	56.65	18.282		
8,100.00	7,390.00	7,426.90	7,390.00	29.16	29.45	-102.25	400.99	344.08	1,037.27	979.56	57.71	17.975		
8,200.00	7,390.00	7,426.89	7,390.00	29.79	30.05	-102.23	500.97	345.11	1,038.80	979.89	58.91	17.635		
8,300.00	7,390.00	7,426.87	7,390.00	30.50	30.71	-102.21	600.95	346.13	1,040.32	980.08	60.24	17.270		
8,400.00	7,390.00	7,426.86	7,390.00	31.27	31.44	-102.19	700.93	347.15	1,041.85	980.15	61.70	16.885		
8,500.00	7,390.00	7,426.85	7,390.00	32.10	32.24	-102.17	800.92	348.17	1,043.38	980.09	63.29	16.487		
8,600.00	7,390.00	7,426.84	7,390.00	32.98	33.09	-102.16	900.90	349.20	1,044.90	979.92	64.98	16.081		
8,700.00	7,390.00	7,426.83	7,390.00	33.91	33.99	-102.14	1,000.88	350.22	1,046.43	979.66	66.77	15.671		
8,800.00	7,390.00	7,426.81	7,390.00	34.89	34.94	-102.12	1,100.86	351.24	1,047.96	979.29	68.66	15.262		
8,900.00	7,390.00	7,426.80	7,390.00	35.91	35.93	-102.10	1,200.85	352.27	1,049.49	978.85	70.64	14.857		

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 4G-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 4G-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 4K-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		
9,000.00	7,390.00	9,182.79	7,610.00	36.96	36.97	102.08	1,300.83	353.29	1,051.01	978.32	72.70	14.458		
9,100.00	7,390.00	9,282.78	7,610.00	38.06	38.04	102.07	1,400.81	354.31	1,052.54	977.72	74.82	14.067		
9,200.00	7,390.00	9,382.76	7,610.00	39.18	39.15	102.05	1,500.80	355.33	1,054.07	977.05	77.02	13.686		
9,300.00	7,390.00	9,482.75	7,610.00	40.34	40.29	102.03	1,600.78	356.36	1,055.60	976.32	79.28	13.315		
9,400.00	7,390.00	9,582.74	7,610.00	41.52	41.45	102.01	1,700.76	357.38	1,057.12	975.53	81.59	12.956		
9,500.00	7,390.00	9,682.73	7,610.00	42.73	42.64	102.00	1,800.74	358.40	1,058.65	974.69	83.96	12.609		
9,600.00	7,390.00	9,782.72	7,610.00	43.96	43.86	101.98	1,900.73	359.42	1,060.18	973.81	86.37	12.275		
9,700.00	7,390.00	9,882.70	7,610.00	45.22	45.10	101.96	2,000.71	360.45	1,061.71	972.88	88.83	11.952		
9,800.00	7,390.00	9,982.69	7,610.00	46.49	46.36	101.94	2,100.69	361.47	1,063.24	971.91	91.33	11.642		
9,900.00	7,390.00	10,082.68	7,610.00	47.79	47.63	101.93	2,200.67	362.49	1,064.76	970.90	93.86	11.344		
10,000.00	7,390.00	10,182.67	7,610.00	49.10	48.93	101.91	2,300.66	363.52	1,066.29	969.86	96.43	11.058		
10,100.00	7,390.00	10,282.65	7,610.00	50.42	50.24	101.89	2,400.64	364.54	1,067.82	968.79	99.03	10.783		
10,200.00	7,390.00	10,382.64	7,610.00	51.76	51.57	101.87	2,500.62	365.56	1,069.35	967.69	101.66	10.519		
10,300.00	7,390.00	10,482.63	7,610.00	53.11	52.91	101.86	2,600.60	366.58	1,070.88	966.56	104.32	10.266		
10,400.00	7,390.00	10,582.62	7,610.00	54.48	54.26	101.84	2,700.59	367.61	1,072.41	965.41	107.00	10.023		
10,500.00	7,390.00	10,682.61	7,610.00	55.86	55.62	101.82	2,800.57	368.63	1,073.94	964.23	109.70	9.789		
10,600.00	7,390.00	10,782.59	7,610.00	57.24	57.00	101.81	2,900.55	369.65	1,075.47	963.04	112.43	9.566		
10,700.00	7,390.00	10,882.58	7,610.00	58.64	58.38	101.79	3,000.53	370.67	1,077.00	961.82	115.18	9.351		
10,800.00	7,390.00	10,982.57	7,610.00	60.05	59.78	101.77	3,100.52	371.70	1,078.52	960.58	117.94	9.145		
10,900.00	7,390.00	11,082.56	7,610.00	61.47	61.18	101.75	3,200.50	372.72	1,080.05	959.33	120.72	8.947		
11,000.00	7,390.00	11,182.55	7,610.00	62.89	62.59	101.74	3,300.48	373.74	1,081.58	958.06	123.52	8.756		
11,100.00	7,390.00	11,282.53	7,610.00	64.32	64.01	101.72	3,400.46	374.77	1,083.11	956.78	126.33	8.573		
11,200.00	7,390.00	11,382.52	7,610.00	65.76	65.44	101.70	3,500.45	375.79	1,084.64	955.48	129.16	8.398		
11,300.00	7,390.00	11,482.51	7,610.00	67.20	66.87	101.69	3,600.43	376.81	1,086.17	954.17	132.00	8.228		
11,400.00	7,390.00	11,582.50	7,610.00	68.66	68.31	101.67	3,700.41	377.83	1,087.70	952.85	134.86	8.066		
11,500.00	7,390.00	11,682.48	7,610.00	70.11	69.75	101.65	3,800.39	378.86	1,089.23	951.51	137.72	7.909		
11,600.00	7,390.00	11,782.47	7,610.00	71.58	71.21	101.64	3,900.38	379.88	1,090.76	950.16	140.60	7.758		
11,700.00	7,390.00	11,882.46	7,610.00	73.04	72.66	101.62	4,000.36	380.90	1,092.29	948.81	143.48	7.613		
11,800.00	7,390.00	11,982.45	7,610.00	74.52	74.12	101.60	4,100.34	381.92	1,093.82	947.44	146.38	7.472		
11,900.00	7,390.00	12,082.44	7,610.00	75.99	75.59	101.59	4,200.32	382.95	1,095.35	946.07	149.29	7.337		
12,000.00	7,390.00	12,182.42	7,610.00	77.47	77.06	101.57	4,300.31	383.97	1,096.88	944.68	152.20	7.207		
12,100.00	7,390.00	12,282.41	7,610.00	78.96	78.53	101.56	4,400.29	384.99	1,098.41	943.29	155.12	7.081		
12,200.00	7,390.00	12,382.40	7,610.00	80.45	80.01	101.54	4,500.27	386.02	1,099.94	941.89	158.05	6.959		
12,300.00	7,390.00	12,482.39	7,610.00	81.94	81.49	101.52	4,600.25	387.04	1,101.48	940.48	160.99	6.842		
12,400.00	7,390.00	12,582.37	7,610.00	83.44	82.97	101.51	4,700.24	388.06	1,103.01	939.07	163.94	6.728		
12,500.00	7,390.00	12,682.36	7,610.00	84.94	84.46	101.49	4,800.22	389.08	1,104.54	937.65	166.89	6.618		
12,600.00	7,390.00	12,782.35	7,610.00	86.44	85.95	101.47	4,900.20	390.11	1,106.07	936.22	169.84	6.512		
12,700.00	7,390.00	12,882.34	7,610.00	87.95	87.45	101.46	5,000.19	391.13	1,107.60	934.79	172.81	6.409		
12,800.00	7,390.00	12,982.33	7,610.00	89.46	88.95	101.44	5,100.17	392.15	1,109.13	933.35	175.78	6.310		
12,900.00	7,390.00	13,082.31	7,610.00	90.97	90.44	101.43	5,200.15	393.17	1,110.66	931.91	178.75	6.213		
13,000.00	7,390.00	13,182.30	7,610.00	92.48	91.95	101.41	5,300.13	394.20	1,112.19	930.46	181.73	6.120		
13,100.00	7,390.00	13,282.29	7,610.00	94.00	93.45	101.39	5,400.12	395.22	1,113.72	929.01	184.72	6.029		
13,200.00	7,390.00	13,382.28	7,610.00	95.52	94.96	101.38	5,500.10	396.24	1,115.25	927.55	187.70	5.942		
13,300.00	7,390.00	13,482.26	7,610.00	97.04	96.47	101.36	5,600.08	397.27	1,116.79	926.09	190.70	5.856		
13,400.00	7,390.00	13,582.25	7,610.00	98.56	97.98	101.35	5,700.06	398.29	1,118.32	924.62	193.70	5.774		
13,500.00	7,390.00	13,682.24	7,610.00	100.08	99.49	101.33	5,800.05	399.31	1,119.85	923.15	196.70	5.693		
13,600.00	7,390.00	13,782.23	7,610.00	101.61	101.01	101.32	5,900.03	400.33	1,121.38	921.68	199.70	5.615		
13,700.00	7,390.00	13,882.22	7,610.00	103.14	102.52	101.30	6,000.01	401.36	1,122.91	920.20	202.71	5.539		
13,748.73	7,390.00	13,930.94	7,610.00	103.89	103.26	101.29	6,048.73	401.85	1,123.66	919.48	204.18	5.503		
13,800.00	7,390.00	13,982.19	7,610.00	104.67	104.04	101.28	6,099.98	402.38	1,124.90	919.16	205.73	5.468		
13,821.47	7,390.00	14,003.65	7,610.00	105.01	104.37	101.28	6,121.44	402.60	1,125.68	919.29	206.39	5.454		
13,900.00	7,390.00	14,082.11	7,610.00	106.23	105.56	101.25	6,199.90	403.40	1,128.84	920.06	208.78	5.407		

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 4G-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 4G-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 4K-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		
14,000.00	7,390.00	14,182.03	7,610.00	107.78	107.08	101.21	6,299.81	404.42	1,132.86	921.03	211.83	5.348			
14,100.00	7,390.00	14,281.94	7,610.00	109.34	108.61	101.17	6,399.72	405.45	1,136.88	922.00	214.88	5.291			
14,200.00	7,390.00	14,381.86	7,610.00	110.89	110.13	101.13	6,499.63	406.47	1,140.91	922.97	217.94	5.235			
14,300.00	7,390.00	14,481.78	7,610.00	112.45	111.65	101.09	6,599.54	407.49	1,144.93	923.93	221.00	5.181			
14,400.00	7,390.00	14,581.69	7,610.00	114.01	113.18	101.05	6,699.45	408.51	1,148.95	924.89	224.06	5.128			
14,500.00	7,390.00	14,681.61	7,610.00	115.57	114.71	101.01	6,799.36	409.53	1,152.98	925.85	227.13	5.076			
14,600.00	7,390.00	14,781.52	7,610.00	117.14	116.24	100.97	6,899.27	410.56	1,157.00	926.81	230.19	5.026			
14,625.12	7,390.00	14,806.62	7,610.00	117.53	116.62	100.96	6,924.37	410.81	1,158.01	927.05	230.97	5.014 SF			

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	90.05	-0.05	49.79	49.79				
100.00	100.00	100.00	100.00	0.14	0.14	90.05	-0.05	49.79	49.79	49.52	0.28	180.393	
200.00	200.00	200.00	200.00	0.50	0.50	90.05	-0.05	49.79	49.79	48.80	0.99	50.145 CC, ES	
300.00	300.00	298.72	298.70	0.85	0.84	91.37	-1.22	51.02	51.05	49.33	1.72	29.738	
400.00	400.00	397.21	397.05	1.21	1.19	94.96	-4.74	54.69	54.97	52.51	2.46	22.322	
500.00	500.00	495.23	494.71	1.57	1.54	99.87	-10.57	60.76	61.90	58.67	3.23	19.171	
600.00	600.00	592.57	591.34	1.93	1.91	105.09	-18.64	69.17	72.16	68.15	4.00	18.021	
700.00	700.00	689.98	687.64	2.29	2.30	109.87	-28.83	79.78	85.72	80.98	4.75	18.061	
800.00	800.00	788.74	785.16	2.65	2.71	113.52	-39.60	91.00	100.35	94.91	5.44	18.448	
900.00	899.98	887.45	882.64	2.99	3.12	-111.35	-50.37	102.21	115.89	109.76	6.12	18.932	
1,000.00	999.84	986.02	979.98	3.33	3.53	-111.01	-61.12	113.41	132.73	125.93	6.80	19.515	
1,100.00	1,099.45	1,084.31	1,077.04	3.67	3.95	-111.91	-71.84	124.58	150.85	143.35	7.50	20.126	
1,204.08	1,202.74	1,186.20	1,177.66	4.04	4.38	-113.70	-82.95	136.15	171.21	162.98	8.23	20.794	
1,300.00	1,297.71	1,279.86	1,270.15	4.39	4.78	-115.77	-93.17	146.80	190.88	181.96	8.93	21.382	
1,400.00	1,396.72	1,377.51	1,366.58	4.77	5.20	-117.51	-103.82	157.89	211.60	201.94	9.66	21.905	
1,500.00	1,495.72	1,475.16	1,463.01	5.15	5.62	-118.95	-114.47	168.98	232.47	222.07	10.40	22.351	
1,600.00	1,594.73	1,572.80	1,559.44	5.54	6.04	-120.15	-125.12	180.08	253.46	242.31	11.15	22.735	
1,700.00	1,693.74	1,670.45	1,655.87	5.93	6.45	-121.16	-135.77	191.17	274.53	262.63	11.90	23.068	
1,800.00	1,792.74	1,768.09	1,752.29	6.32	6.87	-122.03	-146.42	202.27	295.68	283.02	12.66	23.359	
1,900.00	1,891.75	1,865.74	1,848.72	6.72	7.29	-122.79	-157.07	213.36	316.89	303.47	13.42	23.616	
2,000.00	1,990.76	1,963.39	1,945.15	7.12	7.71	-123.45	-167.72	224.45	338.14	323.95	14.18	23.843	
2,100.00	2,089.76	2,061.03	2,041.58	7.52	8.13	-124.03	-178.37	235.55	359.42	344.48	14.95	24.046	
2,200.00	2,188.77	2,158.68	2,138.01	7.92	8.56	-124.54	-189.02	246.64	380.74	365.03	15.72	24.228	
2,300.00	2,287.78	2,256.33	2,234.43	8.33	8.98	-125.01	-199.67	257.73	402.09	385.60	16.48	24.392	
2,400.00	2,386.78	2,353.97	2,330.86	8.74	9.40	-125.42	-210.32	268.83	423.46	406.20	17.26	24.541	
2,500.00	2,485.79	2,451.62	2,427.29	9.14	9.82	-125.80	-220.97	279.92	444.84	426.82	18.03	24.676	
2,600.00	2,584.80	2,549.27	2,523.72	9.55	10.24	-126.14	-231.62	291.02	466.25	447.45	18.80	24.800	
2,700.00	2,683.81	2,646.91	2,620.15	9.96	10.66	-126.45	-242.27	302.11	487.67	468.09	19.57	24.914	
2,800.00	2,782.81	2,744.56	2,716.57	10.37	11.08	-126.73	-252.92	313.20	509.10	488.75	20.35	25.018	
2,900.00	2,881.82	2,842.21	2,813.00	10.78	11.50	-127.00	-263.57	324.30	530.54	509.41	21.12	25.115	
3,000.00	2,980.83	2,939.85	2,909.43	11.19	11.93	-127.24	-274.22	335.39	551.99	530.09	21.90	25.204	
3,100.00	3,079.83	3,037.50	3,005.86	11.60	12.35	-127.46	-284.87	346.49	573.45	550.77	22.68	25.287	
3,200.00	3,178.84	3,135.15	3,102.29	12.02	12.77	-127.67	-295.52	357.58	594.92	571.46	23.45	25.364	
3,300.00	3,277.85	3,232.79	3,198.71	12.43	13.19	-127.86	-306.17	368.67	616.39	592.16	24.23	25.436	
3,400.00	3,376.85	3,330.44	3,295.14	12.84	13.61	-128.04	-316.82	379.77	637.88	612.87	25.01	25.504	
3,500.00	3,475.86	3,428.09	3,391.57	13.25	14.03	-128.21	-327.47	390.86	659.36	633.57	25.79	25.567	
3,600.00	3,574.87	3,525.73	3,488.00	13.67	14.46	-128.37	-338.12	401.96	680.85	654.29	26.57	25.627	
3,700.00	3,673.87	3,623.38	3,584.43	14.08	14.88	-128.51	-348.77	413.05	702.35	675.00	27.35	25.682	
3,800.00	3,772.88	3,721.03	3,680.85	14.49	15.30	-128.65	-359.42	424.14	723.85	695.72	28.13	25.735	
3,900.00	3,871.89	3,818.67	3,777.28	14.91	15.72	-128.78	-370.07	435.24	745.36	716.45	28.91	25.785	
4,000.00	3,970.90	3,916.32	3,873.71	15.32	16.14	-128.91	-380.72	446.33	766.86	737.18	29.69	25.832	
4,100.00	4,069.90	4,013.97	3,970.14	15.74	16.57	-129.03	-391.37	457.43	788.38	757.91	30.47	25.876	
4,200.00	4,168.91	4,111.61	4,066.57	16.15	16.99	-129.14	-402.02	468.52	809.89	778.64	31.25	25.919	
4,300.00	4,267.92	4,209.26	4,162.99	16.57	17.41	-129.24	-412.67	479.61	831.41	799.38	32.03	25.959	
4,400.00	4,366.92	4,306.91	4,259.42	16.98	17.83	-129.34	-423.32	490.71	852.93	820.12	32.81	25.997	
4,500.00	4,465.93	4,404.55	4,355.85	17.40	18.25	-129.44	-433.97	501.80	874.45	840.86	33.59	26.033	
4,600.00	4,564.94	4,502.20	4,452.28	17.81	18.68	-129.53	-444.62	512.89	895.97	861.60	34.37	26.068	
4,700.00	4,663.94	4,599.85	4,548.70	18.23	19.10	-129.61	-455.27	523.99	917.50	882.35	35.15	26.101	
4,800.00	4,762.95	4,731.87	4,679.51	18.64	19.64	-129.84	-467.59	536.82	937.24	901.07	36.17	25.913	
4,900.00	4,861.96	4,865.42	4,812.52	19.06	20.14	-130.28	-475.79	545.36	953.37	916.25	37.12	25.680	
5,000.00	4,960.96	4,999.89	4,946.86	19.48	20.60	-130.94	-479.70	549.44	965.89	927.88	38.01	25.408	
5,100.00	5,059.97	5,113.00	5,059.97	19.89	20.93	-131.63	-480.05	549.79	975.51	936.75	38.76	25.168	

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 4G-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 4G-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		
5,200.00	5,158.98	5,212.01	5,158.98	20.31	21.21	-132.23	-480.05	549.79	984.96	945.50	39.46	24.962		
5,300.00	5,257.99	5,311.01	5,257.99	20.72	21.49	-132.83	-480.05	549.79	994.51	954.35	40.16	24.766		
5,400.00	5,356.99	5,410.02	5,356.99	21.14	21.78	-133.42	-480.05	549.79	1,004.17	963.32	40.86	24.579		
5,500.00	5,456.00	5,509.03	5,456.00	21.56	22.06	-133.99	-480.05	549.79	1,013.94	972.38	41.55	24.400		
5,600.00	5,555.01	5,608.03	5,555.01	21.97	22.35	-134.55	-480.05	549.79	1,023.80	981.55	42.25	24.230		
5,700.00	5,654.01	5,707.04	5,654.01	22.39	22.64	-135.11	-480.05	549.79	1,033.76	990.81	42.95	24.067		
5,800.00	5,753.02	5,806.05	5,753.02	22.81	22.94	-135.65	-480.05	549.79	1,043.81	1,000.16	43.65	23.912		
5,900.00	5,852.03	5,905.06	5,852.03	23.22	23.23	-136.18	-480.05	549.79	1,053.96	1,009.61	44.35	23.764		
6,000.00	5,951.03	6,004.06	5,951.03	23.64	23.53	-136.70	-480.05	549.79	1,064.20	1,019.15	45.05	23.622		
6,100.00	6,050.04	6,103.07	6,050.04	24.06	23.82	-137.21	-480.05	549.79	1,074.52	1,028.77	45.75	23.487		
6,200.00	6,149.05	6,202.08	6,149.05	24.47	24.12	-137.72	-480.05	549.79	1,084.93	1,038.48	46.45	23.357		
6,300.00	6,248.05	6,301.08	6,248.05	24.89	24.42	-138.21	-480.05	549.79	1,095.41	1,048.26	47.15	23.233		
6,400.00	6,347.06	6,400.09	6,347.06	25.31	24.73	-138.69	-480.05	549.79	1,105.98	1,058.13	47.85	23.114		
6,500.00	6,446.07	6,499.10	6,446.07	25.72	25.03	-139.17	-480.05	549.79	1,116.62	1,068.07	48.55	23.000		
6,600.00	6,545.07	6,598.10	6,545.07	26.14	25.33	-139.63	-480.05	549.79	1,127.34	1,078.09	49.25	22.891		
6,665.43	6,609.86	6,662.89	6,609.86	26.41	25.53	-139.93	-480.05	549.79	1,134.39	1,084.69	49.71	22.822		
6,700.00	6,644.15	6,697.18	6,644.15	26.55	25.64	-158.43	-480.05	549.79	1,138.10	1,088.15	49.95	22.787		
6,750.00	6,693.86	6,746.89	6,693.86	26.74	25.79	164.61	-480.05	549.79	1,143.32	1,093.04	50.28	22.740		
6,800.00	6,743.50	6,796.53	6,743.50	26.90	25.95	135.14	-480.05	549.79	1,148.35	1,097.76	50.59	22.698		
6,850.00	6,792.82	6,844.30	6,791.27	27.05	26.10	119.40	-479.52	549.79	1,153.22	1,102.34	50.88	22.663		
6,900.00	6,841.57	6,891.20	6,838.04	27.19	26.23	110.87	-476.19	549.74	1,158.02	1,106.86	51.15	22.638		
6,950.00	6,889.53	6,938.49	6,884.88	27.31	26.36	105.74	-469.74	549.65	1,162.74	1,111.33	51.41	22.618		
7,000.00	6,936.45	6,986.20	6,931.59	27.41	26.49	102.38	-460.12	549.51	1,167.35	1,115.71	51.64	22.604		
7,050.00	6,982.12	7,034.34	6,977.98	27.51	26.61	100.05	-447.27	549.33	1,171.84	1,119.98	51.87	22.594		
7,100.00	7,026.30	7,082.94	7,023.83	27.59	26.72	98.35	-431.18	549.10	1,176.19	1,124.12	52.07	22.587		
7,150.00	7,068.78	7,132.03	7,068.93	27.66	26.82	97.08	-411.80	548.82	1,180.38	1,128.11	52.27	22.582		
7,200.00	7,109.36	7,181.63	7,113.03	27.71	26.91	96.12	-389.14	548.50	1,184.39	1,131.93	52.46	22.577		
7,250.00	7,147.83	7,231.75	7,155.89	27.76	27.00	95.37	-363.20	548.13	1,188.19	1,135.55	52.64	22.571		
7,300.00	7,184.01	7,282.40	7,197.27	27.79	27.08	94.80	-333.99	547.71	1,191.78	1,138.96	52.82	22.562		
7,350.00	7,217.73	7,333.61	7,236.89	27.82	27.15	94.37	-301.57	547.25	1,195.13	1,142.13	53.00	22.549		
7,400.00	7,248.81	7,385.39	7,274.49	27.83	27.22	94.04	-266.00	546.74	1,198.22	1,145.03	53.19	22.529		
7,450.00	7,277.12	7,437.73	7,309.80	27.84	27.28	93.81	-227.37	546.19	1,201.03	1,147.65	53.38	22.500		
7,500.00	7,302.50	7,490.65	7,342.52	27.85	27.34	93.65	-185.81	545.60	1,203.56	1,149.97	53.59	22.461		
7,550.00	7,324.84	7,544.13	7,372.39	27.84	27.39	93.57	-141.46	544.97	1,205.78	1,151.97	53.81	22.409		
7,600.00	7,344.02	7,598.19	7,399.13	27.84	27.45	93.54	-94.50	544.30	1,207.67	1,153.62	54.05	22.344		
7,650.00	7,359.96	7,652.79	7,422.46	27.84	27.52	93.57	-45.15	543.59	1,209.23	1,154.91	54.31	22.263		
7,700.00	7,372.58	7,707.92	7,442.14	27.84	27.59	93.64	6.33	542.86	1,210.44	1,155.83	54.61	22.166		
7,750.00	7,381.81	7,763.57	7,457.93	27.86	27.69	93.76	59.67	542.10	1,211.29	1,156.36	54.93	22.052		
7,800.00	7,387.61	7,819.69	7,469.61	27.92	27.80	93.92	114.54	541.32	1,211.76	1,156.48	55.28	21.921		
7,850.00	7,389.95	7,876.25	7,477.00	28.02	27.95	94.12	170.60	540.52	1,211.86	1,156.20	55.66	21.773		
7,858.73	7,390.00	7,886.17	7,477.84	28.04	27.98	94.16	180.48	540.38	1,211.84	1,156.11	55.73	21.745		
7,900.00	7,390.00	7,933.26	7,479.95	28.17	28.12	94.26	227.51	539.70	1,211.61	1,155.53	56.08	21.607		
8,000.00	7,390.00	8,034.33	7,480.00	28.61	28.52	94.26	328.57	538.26	1,210.73	1,153.74	56.99	21.245		
8,100.00	7,390.00	8,134.33	7,480.00	29.16	29.01	94.27	428.55	536.84	1,209.85	1,151.80	58.05	20.842		
8,200.00	7,390.00	8,234.32	7,480.00	29.79	29.60	94.27	528.54	535.41	1,208.96	1,149.70	59.26	20.402		
8,300.00	7,390.00	8,334.32	7,480.00	30.50	30.28	94.27	628.53	533.99	1,208.08	1,147.47	60.61	19.932		
8,400.00	7,390.00	8,434.32	7,480.00	31.27	31.02	94.28	728.51	532.56	1,207.19	1,145.10	62.10	19.441		
8,500.00	7,390.00	8,534.31	7,480.00	32.10	31.83	94.28	828.50	531.14	1,206.31	1,142.60	63.71	18.936		
8,600.00	7,390.00	8,634.31	7,480.00	32.98	32.70	94.28	928.48	529.71	1,205.43	1,140.00	65.43	18.423		
8,700.00	7,390.00	8,734.30	7,480.00	33.91	33.62	94.29	1,028.47	528.29	1,204.54	1,137.28	67.26	17.909		
8,800.00	7,390.00	8,834.30	7,480.00	34.89	34.59	94.29	1,128.46	526.86	1,203.66	1,134.47	69.19	17.397		
8,900.00	7,390.00	8,934.30	7,480.00	35.91	35.61	94.29	1,228.44	525.43	1,202.78	1,131.57	71.20	16.892		

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 4G-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 4G-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
9,000.00	7,390.00	9,034.29	7,480.00	36.96	36.66	94.29	1,328.43	524.01	1,201.89	1,128.59	73.30	16.396	
9,100.00	7,390.00	9,134.29	7,480.00	38.06	37.76	94.30	1,428.41	522.58	1,201.01	1,125.53	75.48	15.912	
9,200.00	7,390.00	9,234.28	7,480.00	39.18	38.89	94.30	1,528.40	521.16	1,200.12	1,122.41	77.72	15.442	
9,300.00	7,390.00	9,334.28	7,480.00	40.34	40.05	94.30	1,628.39	519.73	1,199.24	1,119.22	80.02	14.986	
9,400.00	7,390.00	9,434.28	7,480.00	41.52	41.23	94.31	1,728.37	518.31	1,198.36	1,115.97	82.39	14.545	
9,500.00	7,390.00	9,534.27	7,480.00	42.73	42.45	94.31	1,828.36	516.88	1,197.47	1,112.67	84.80	14.120	
9,600.00	7,390.00	9,634.27	7,480.00	43.96	43.69	94.31	1,928.34	515.46	1,196.59	1,109.32	87.27	13.711	
9,700.00	7,390.00	9,734.26	7,480.00	45.22	44.95	94.32	2,028.33	514.03	1,195.71	1,105.93	89.78	13.318	
9,800.00	7,390.00	9,834.26	7,480.00	46.49	46.23	94.32	2,128.32	512.60	1,194.82	1,102.49	92.33	12.941	
9,900.00	7,390.00	9,934.26	7,480.00	47.79	47.53	94.32	2,228.30	511.18	1,193.94	1,099.02	94.92	12.579	
10,000.00	7,390.00	10,034.25	7,480.00	49.10	48.85	94.33	2,328.29	509.75	1,193.05	1,095.51	97.54	12.231	
10,100.00	7,390.00	10,134.25	7,480.00	50.42	50.18	94.33	2,428.27	508.33	1,192.17	1,091.97	100.20	11.898	
10,200.00	7,390.00	10,234.24	7,480.00	51.76	51.53	94.33	2,528.26	506.90	1,191.29	1,088.41	102.88	11.579	
10,300.00	7,390.00	10,334.24	7,480.00	53.11	52.89	94.34	2,628.24	505.48	1,190.40	1,084.81	105.59	11.274	
10,400.00	7,390.00	10,434.24	7,480.00	54.48	54.27	94.34	2,728.23	504.05	1,189.52	1,081.19	108.33	10.981	
10,500.00	7,390.00	10,534.23	7,480.00	55.86	55.66	94.34	2,828.22	502.63	1,188.64	1,077.55	111.09	10.700	
10,600.00	7,390.00	10,634.23	7,480.00	57.24	57.05	94.35	2,928.20	501.20	1,187.75	1,073.88	113.87	10.431	
10,700.00	7,390.00	10,734.23	7,480.00	58.64	58.46	94.35	3,028.19	499.78	1,186.87	1,070.20	116.67	10.173	
10,800.00	7,390.00	10,834.22	7,480.00	60.05	59.88	94.35	3,128.17	498.35	1,185.99	1,066.49	119.49	9.925	
10,900.00	7,390.00	10,934.22	7,480.00	61.47	61.30	94.36	3,228.16	496.92	1,185.10	1,062.77	122.33	9.688	
11,000.00	7,390.00	11,034.21	7,480.00	62.89	62.74	94.36	3,328.15	495.50	1,184.22	1,059.03	125.18	9.460	
11,100.00	7,390.00	11,134.21	7,480.00	64.32	64.18	94.36	3,428.13	494.07	1,183.33	1,055.28	128.05	9.241	
11,200.00	7,390.00	11,234.21	7,480.00	65.76	65.62	94.37	3,528.12	492.65	1,182.45	1,051.52	130.93	9.031	
11,300.00	7,390.00	11,334.20	7,480.00	67.20	67.08	94.37	3,628.10	491.22	1,181.57	1,047.74	133.83	8.829	
11,400.00	7,390.00	11,434.20	7,480.00	68.66	68.54	94.37	3,728.09	489.80	1,180.68	1,043.94	136.74	8.635	
11,500.00	7,390.00	11,534.19	7,480.00	70.11	70.01	94.38	3,828.08	488.37	1,179.80	1,040.14	139.66	8.448	
11,600.00	7,390.00	11,634.19	7,480.00	71.58	71.48	94.38	3,928.06	486.95	1,178.92	1,036.33	142.59	8.268	
11,700.00	7,390.00	11,734.19	7,480.00	73.04	72.95	94.38	4,028.05	485.52	1,178.03	1,032.50	145.53	8.095	
11,800.00	7,390.00	11,834.18	7,480.00	74.52	74.44	94.39	4,128.03	484.09	1,177.15	1,028.67	148.48	7.928	
11,900.00	7,390.00	11,934.18	7,480.00	75.99	75.92	94.39	4,228.02	482.67	1,176.27	1,024.83	151.44	7.767	
12,000.00	7,390.00	12,034.17	7,480.00	77.47	77.41	94.39	4,328.01	481.24	1,175.38	1,020.97	154.41	7.612	
12,100.00	7,390.00	12,134.17	7,480.00	78.96	78.91	94.39	4,427.99	479.82	1,174.50	1,017.11	157.38	7.463	
12,200.00	7,390.00	12,234.17	7,480.00	80.45	80.41	94.40	4,527.98	478.39	1,173.61	1,013.25	160.37	7.318	
12,300.00	7,390.00	12,334.16	7,480.00	81.94	81.91	94.40	4,627.96	476.97	1,172.73	1,009.37	163.36	7.179	
12,400.00	7,390.00	12,434.16	7,480.00	83.44	83.41	94.40	4,727.95	475.54	1,171.85	1,005.49	166.36	7.044	
12,500.00	7,390.00	12,534.15	7,480.00	84.94	84.92	94.41	4,827.93	474.12	1,170.96	1,001.60	169.36	6.914	
12,600.00	7,390.00	12,634.15	7,480.00	86.44	86.44	94.41	4,927.92	472.69	1,170.08	997.71	172.37	6.788	
12,700.00	7,390.00	12,734.15	7,480.00	87.95	87.95	94.41	5,027.91	471.27	1,169.20	993.81	175.39	6.666	
12,800.00	7,390.00	12,834.14	7,480.00	89.46	89.47	94.42	5,127.89	469.84	1,168.31	989.91	178.41	6.549	
12,900.00	7,390.00	12,934.14	7,480.00	90.97	90.99	94.42	5,227.88	468.41	1,167.43	986.00	181.43	6.434	
13,000.00	7,390.00	13,034.13	7,480.00	92.48	92.51	94.42	5,327.86	466.99	1,166.55	982.08	184.46	6.324	
13,100.00	7,390.00	13,134.13	7,480.00	94.00	94.04	94.43	5,427.85	465.56	1,165.66	978.16	187.50	6.217	
13,200.00	7,390.00	13,234.13	7,480.00	95.52	95.56	94.43	5,527.84	464.14	1,164.78	974.24	190.54	6.113	
13,300.00	7,390.00	13,334.12	7,480.00	97.04	97.09	94.44	5,627.82	462.71	1,163.89	970.31	193.59	6.012	
13,400.00	7,390.00	13,434.12	7,480.00	98.56	98.62	94.44	5,727.81	461.29	1,163.01	966.38	196.63	5.915	
13,500.00	7,390.00	13,534.12	7,480.00	100.08	100.16	94.44	5,827.79	459.86	1,162.13	962.44	199.69	5.820	
13,600.00	7,390.00	13,634.11	7,480.00	101.61	101.69	94.45	5,927.78	458.44	1,161.24	958.50	202.74	5.728	
13,700.00	7,390.00	13,734.11	7,480.00	103.14	103.23	94.45	6,027.77	457.01	1,160.36	954.56	205.80	5.638	
13,748.73	7,390.00	13,782.83	7,480.00	103.89	103.98	94.45	6,076.49	456.32	1,159.93	952.63	207.30	5.596	
13,774.12	7,390.00	13,808.22	7,480.00	104.28	104.37	94.45	6,101.87	455.95	1,159.82	951.74	208.07	5.574	
13,800.00	7,390.00	13,834.10	7,480.00	104.67	104.77	94.45	6,127.75	455.58	1,159.93	951.06	208.87	5.553	
13,821.47	7,390.00	13,855.58	7,480.00	105.01	105.10	94.45	6,149.22	455.28	1,160.21	950.68	209.53	5.537	

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 4G-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 4G-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	7,390.00	13,934.09	7,480.00	106.23	106.31	94.44	6,227.73	454.16	1,161.50	949.55	211.96	5.480			
14,000.00	7,390.00	14,034.08	7,480.00	107.78	107.85	94.44	6,327.71	452.73	1,163.15	948.10	215.05	5.409			
14,100.00	7,390.00	14,134.06	7,480.00	109.34	109.39	94.43	6,427.68	451.31	1,164.80	946.66	218.14	5.340			
14,200.00	7,390.00	14,234.05	7,480.00	110.89	110.94	94.43	6,527.66	449.88	1,166.45	945.21	221.24	5.272			
14,300.00	7,390.00	14,334.04	7,480.00	112.45	112.48	94.42	6,627.63	448.46	1,168.09	943.76	224.34	5.207			
14,400.00	7,390.00	14,434.02	7,480.00	114.01	114.03	94.41	6,727.61	447.03	1,169.74	942.31	227.44	5.143			
14,500.00	7,390.00	14,534.01	7,480.00	115.57	115.58	94.41	6,827.59	445.61	1,171.39	940.85	230.54	5.081			
14,600.00	7,390.00	14,634.00	7,480.00	117.14	117.13	94.40	6,927.56	444.18	1,173.04	939.39	233.65	5.021			
14,625.12	7,390.00	14,647.70	7,480.00	117.53	117.34	94.40	6,941.26	443.99	1,173.51	939.28	234.22	5.010 SF			

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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		
1,500.00	1,495.72	1,818.91	1,775.48	5.15	7.16	39.65	-166.68	-1,511.20	1,497.07	1,487.34	9.73	153.821		
1,600.00	1,594.73	1,935.51	1,887.61	5.54	7.77	39.26	-184.66	-1,484.78	1,464.84	1,454.35	10.49	139.684		
1,700.00	1,693.74	2,030.58	1,979.06	5.93	8.26	38.96	-198.50	-1,462.77	1,432.18	1,421.02	11.16	128.333		
1,800.00	1,792.74	2,137.74	2,082.40	6.32	8.79	38.72	-211.30	-1,437.46	1,398.91	1,387.09	11.83	118.291		
1,900.00	1,891.75	2,224.89	2,166.33	6.72	9.24	38.48	-222.60	-1,416.93	1,365.81	1,353.32	12.49	109.369		
2,000.00	1,990.76	2,326.18	2,263.74	7.12	9.77	38.17	-236.09	-1,392.67	1,332.38	1,319.20	13.18	101.093		
2,100.00	2,089.76	2,416.02	2,350.32	7.52	10.22	37.92	-247.12	-1,371.41	1,299.18	1,285.34	13.83	93.928		
2,200.00	2,188.77	2,513.41	2,444.39	7.92	10.70	37.71	-257.53	-1,348.43	1,265.95	1,251.47	14.48	87.409		
2,300.00	2,287.78	2,605.36	2,533.17	8.33	11.15	37.50	-267.40	-1,326.60	1,232.60	1,217.47	15.13	81.454		
2,400.00	2,386.78	2,687.75	2,612.79	8.74	11.56	37.30	-276.43	-1,307.49	1,199.82	1,184.03	15.79	75.966		
2,500.00	2,485.79	2,781.41	2,703.19	9.14	12.03	36.94	-289.00	-1,286.44	1,167.97	1,151.46	16.51	70.731		
2,600.00	2,584.80	2,880.91	2,799.00	9.55	12.54	36.51	-302.78	-1,263.40	1,135.55	1,118.30	17.24	65.854		
2,700.00	2,683.81	2,973.36	2,888.11	9.96	13.01	36.12	-314.99	-1,242.02	1,103.15	1,085.18	17.97	61.395		
2,800.00	2,782.81	3,065.16	2,976.71	10.37	13.46	35.73	-326.74	-1,221.05	1,071.01	1,052.34	18.67	57.351		
2,900.00	2,881.82	3,169.47	3,077.41	10.78	13.99	35.31	-339.38	-1,196.99	1,038.65	1,019.25	19.41	53.519		
3,000.00	2,980.83	3,261.90	3,166.59	11.19	14.44	34.92	-350.22	-1,175.25	1,005.85	985.74	20.11	50.009		
3,100.00	3,079.83	3,342.57	3,244.53	11.60	14.84	34.54	-360.08	-1,156.95	973.94	953.09	20.86	46.700		
3,200.00	3,178.84	3,461.77	3,359.73	12.02	15.43	34.03	-373.14	-1,129.29	941.41	919.86	21.54	43.703		
3,300.00	3,277.85	3,569.81	3,463.78	12.43	15.99	33.60	-383.59	-1,102.16	906.92	884.69	22.23	40.801		
3,400.00	3,376.85	3,669.24	3,559.19	12.84	16.52	33.12	-393.72	-1,076.07	871.48	848.55	22.94	37.994		
3,500.00	3,475.86	3,738.85	3,626.11	13.25	16.87	32.76	-400.82	-1,058.25	836.82	813.10	23.72	35.277		
3,600.00	3,574.87	3,809.10	3,694.05	13.67	17.20	32.31	-409.35	-1,042.61	805.51	780.97	24.54	32.830		
3,700.00	3,673.87	3,889.73	3,772.16	14.08	17.57	31.68	-420.55	-1,026.02	776.30	750.93	25.36	30.606		
3,800.00	3,772.88	3,970.55	3,851.02	14.49	17.89	31.15	-430.32	-1,011.31	749.10	722.96	26.14	28.658		
3,900.00	3,871.89	4,055.47	3,934.50	14.91	18.17	30.80	-438.05	-997.84	723.63	696.79	26.84	26.959		
4,000.00	3,970.90	4,141.10	4,019.06	15.32	18.44	30.58	-444.43	-985.93	699.71	672.21	27.51	25.439		
4,100.00	4,069.90	4,226.10	4,103.27	15.74	18.66	30.45	-449.85	-975.79	677.47	649.33	28.14	24.078		
4,200.00	4,168.91	4,310.68	4,187.30	16.15	18.86	30.40	-454.68	-967.45	657.08	628.33	28.74	22.863		
4,300.00	4,267.92	4,394.78	4,271.04	16.57	19.03	30.42	-459.13	-961.15	638.83	609.52	29.32	21.792		
4,400.00	4,366.92	4,492.34	4,368.29	16.98	19.21	30.52	-463.76	-954.95	621.58	591.73	29.85	20.822		
4,500.00	4,465.93	4,584.03	4,459.80	17.40	19.35	30.75	-466.92	-950.06	605.05	574.70	30.35	19.936		
4,600.00	4,564.94	4,676.77	4,552.45	17.81	19.47	31.15	-468.75	-946.50	589.65	558.86	30.80	19.147		
4,700.00	4,663.94	4,772.84	4,648.47	18.23	19.59	31.68	-470.00	-943.64	574.99	543.77	31.22	18.420		
4,800.00	4,762.95	4,871.01	4,746.60	18.64	19.70	32.30	-470.72	-941.13	560.68	529.07	31.61	17.738		
4,900.00	4,861.96	4,971.94	4,847.50	19.06	19.81	33.06	-470.62	-938.57	546.32	514.35	31.97	17.090		
5,000.00	4,960.96	5,073.78	4,949.29	19.48	19.92	33.93	-469.88	-935.52	531.50	499.20	32.30	16.453		
5,100.00	5,059.97	5,163.65	5,039.13	19.89	19.99	34.77	-469.06	-933.20	517.20	484.53	32.67	15.832		
5,200.00	5,158.98	5,260.99	5,136.46	20.31	20.06	35.70	-468.68	-932.67	505.06	472.04	33.01	15.298		
5,300.00	5,257.99	5,350.92	5,226.39	20.72	20.12	36.60	-468.38	-933.11	494.02	460.66	33.36	14.809		
5,400.00	5,356.99	5,450.27	5,325.74	21.14	20.19	37.69	-467.60	-933.55	483.13	449.45	33.68	14.344		
5,500.00	5,456.00	5,548.99	5,424.45	21.56	20.26	38.86	-466.54	-934.01	472.42	438.43	34.00	13.897		
5,600.00	5,555.01	5,650.02	5,525.48	21.97	20.34	40.12	-465.35	-934.44	461.88	427.56	34.32	13.460		
5,700.00	5,654.01	5,754.80	5,630.25	22.39	20.46	41.38	-464.96	-933.77	450.53	415.88	34.66	12.999		
5,800.00	5,753.02	5,850.79	5,726.23	22.81	20.53	42.53	-465.12	-932.56	438.78	403.77	35.01	12.534		
5,900.00	5,852.03	5,943.35	5,818.79	23.22	20.59	43.80	-464.45	-932.65	428.57	393.24	35.34	12.127		
6,000.00	5,951.03	6,039.10	5,914.52	23.64	20.64	45.27	-463.03	-933.86	419.81	384.16	35.65	11.775		
6,100.00	6,050.04	6,135.54	6,010.93	24.06	20.68	46.85	-461.25	-935.68	411.98	376.02	35.96	11.455		
6,200.00	6,149.05	6,233.71	6,109.05	24.47	20.72	48.56	-459.07	-937.90	404.91	368.63	36.28	11.161		
6,300.00	6,248.05	6,331.87	6,207.15	24.89	20.76	50.38	-456.53	-940.28	398.43	361.82	36.61	10.884		
6,400.00	6,347.06	6,430.21	6,305.41	25.31	20.80	52.28	-453.88	-942.83	392.55	355.60	36.95	10.623		
6,500.00	6,446.07	6,529.27	6,404.41	25.72	20.85	54.23	-451.22	-945.51	387.24	349.91	37.33	10.374		
6,600.00	6,545.07	6,629.12	6,504.18	26.14	20.89	56.27	-448.45	-948.00	382.21	344.49	37.73	10.131		

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 4G-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 4G-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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
6,665.43	6,609.86	6,694.55	6,569.57	26.41	20.93	57.66	-446.58	-949.49	379.07	341.06	38.01	9.973	
6,700.00	6,644.15	6,729.26	6,604.26	26.55	20.95	40.04	-445.59	-950.22	377.21	339.05	38.16	9.884	
6,750.00	6,693.86	6,779.66	6,654.63	26.74	20.98	3.73	-444.15	-951.20	373.70	335.30	38.40	9.732	
6,800.00	6,743.50	6,830.07	6,705.01	26.90	21.01	-25.88	-442.71	-952.10	369.16	330.52	38.63	9.555	
6,850.00	6,792.82	6,880.65	6,755.56	27.05	21.05	-42.52	-441.29	-952.89	363.59	324.71	38.88	9.351	
6,900.00	6,841.57	6,930.73	6,805.62	27.19	21.08	-52.62	-439.93	-953.54	357.09	317.95	39.14	9.123	
6,950.00	6,889.53	6,980.05	6,854.92	27.31	21.12	-59.98	-438.65	-954.05	349.91	310.48	39.43	8.875	
7,000.00	6,936.45	7,027.99	6,902.84	27.41	21.16	-66.18	-437.44	-954.43	342.41	302.66	39.75	8.613	
7,050.00	6,982.12	7,074.26	6,949.10	27.51	21.19	-71.90	-436.30	-954.77	335.16	295.02	40.14	8.350	
7,100.00	7,026.30	7,119.10	6,993.93	27.59	21.23	-77.46	-435.21	-955.09	328.79	288.18	40.61	8.095	
7,150.00	7,068.78	7,162.30	7,037.11	27.66	21.26	-82.92	-434.18	-955.39	324.00	282.82	41.19	7.866	
7,200.00	7,109.36	7,203.61	7,078.41	27.71	21.30	-88.23	-433.21	-955.67	321.61	279.73	41.87	7.680	
7,213.97	7,120.32	7,214.78	7,089.58	27.72	21.30	-89.68	-432.96	-955.74	321.47	279.39	42.08	7.639 CC, ES	
7,250.00	7,147.83	7,242.81	7,117.60	27.76	21.33	-93.28	-432.32	-955.92	322.41	279.75	42.66	7.558	
7,300.00	7,184.01	7,279.73	7,154.51	27.79	21.36	-97.93	-431.52	-956.16	327.18	283.67	43.51	7.519 SF	
7,350.00	7,217.73	7,314.19	7,188.96	27.82	21.39	-102.04	-430.79	-956.38	336.48	292.09	44.39	7.580	
7,400.00	7,248.81	7,346.02	7,220.78	27.83	21.41	-105.50	-430.13	-956.58	350.66	305.42	45.24	7.751	
7,450.00	7,277.12	7,375.22	7,249.98	27.84	21.44	-108.24	-429.56	-956.75	369.79	323.77	46.02	8.035	
7,500.00	7,302.50	7,401.42	7,276.18	27.85	21.47	-110.17	-429.11	-956.85	393.67	346.97	46.70	8.429	
7,550.00	7,324.84	7,424.41	7,299.16	27.84	21.50	-111.22	-428.77	-956.89	421.96	374.69	47.27	8.926	
7,600.00	7,344.02	7,444.10	7,318.85	27.84	21.52	-111.30	-428.51	-956.89	454.21	406.47	47.73	9.516	
7,650.00	7,359.96	7,460.43	7,335.18	27.84	21.54	-110.32	-428.32	-956.87	489.87	441.77	48.09	10.186	
7,700.00	7,372.58	7,473.36	7,348.11	27.84	21.55	-108.14	-428.19	-956.84	528.41	480.04	48.37	10.924	
7,750.00	7,381.81	7,482.87	7,357.62	27.86	21.56	-104.57	-428.10	-956.81	569.32	520.74	48.58	11.719	
7,800.00	7,387.61	7,488.96	7,363.70	27.92	21.57	-99.44	-428.04	-956.78	612.09	563.35	48.74	12.560	
7,850.00	7,389.95	7,491.64	7,366.38	28.02	21.57	-92.58	-428.02	-956.77	656.27	607.42	48.85	13.435	
7,858.73	7,390.00	7,491.76	7,366.50	28.04	21.57	-91.20	-428.02	-956.77	664.10	615.23	48.86	13.591	
7,900.00	7,390.00	7,492.08	7,366.83	28.17	21.57	-91.26	-428.02	-956.77	701.41	652.48	48.93	14.335	
8,000.00	7,390.00	7,492.86	7,367.60	28.61	21.57	-91.42	-428.01	-956.77	793.43	744.39	49.04	16.178	
8,100.00	7,390.00	7,493.62	7,368.37	29.16	21.58	-91.57	-428.01	-956.76	887.18	838.07	49.11	18.065	
8,200.00	7,390.00	7,494.37	7,369.12	29.79	21.58	-91.71	-428.00	-956.76	982.17	933.02	49.15	19.983	
8,300.00	7,390.00	7,495.11	7,369.86	30.50	21.58	-91.86	-427.99	-956.76	1,078.06	1,028.88	49.18	21.923	
8,400.00	7,390.00	7,495.84	7,370.58	31.27	21.58	-92.00	-427.99	-956.75	1,174.64	1,125.44	49.19	23.879	
8,500.00	7,390.00	7,496.55	7,371.30	32.10	21.58	-92.14	-427.98	-956.75	1,271.74	1,222.54	49.20	25.848	
8,600.00	7,390.00	7,497.26	7,372.00	32.98	21.58	-92.28	-427.98	-956.75	1,369.26	1,320.05	49.21	27.827	
8,700.00	7,390.00	7,497.95	7,372.69	33.91	21.58	-92.42	-427.97	-956.74	1,467.12	1,417.90	49.21	29.812	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4G-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 4G-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		Total		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis		
7,450.00	7,277.12	7,368.40	7,279.89	27.84	40.41	67.44	784.25	456.90	1,495.62	1,429.05	66.57	22.466	
7,500.00	7,302.50	7,392.00	7,303.49	27.85	40.49	70.21	783.95	457.10	1,469.35	1,402.55	66.80	21.995	
7,550.00	7,324.84	7,412.67	7,324.15	27.84	40.56	73.09	783.71	457.28	1,442.63	1,375.60	67.03	21.524	
7,600.00	7,344.02	7,430.42	7,341.91	27.84	40.62	76.03	783.53	457.43	1,415.69	1,348.46	67.24	21.056	
7,650.00	7,359.96	7,445.16	7,356.65	27.84	40.67	78.96	783.39	457.56	1,388.79	1,321.35	67.44	20.594	
7,700.00	7,372.58	7,456.80	7,368.28	27.84	40.71	81.82	783.29	457.66	1,362.17	1,294.54	67.63	20.143	
7,750.00	7,381.81	7,465.25	7,376.73	27.86	40.73	84.54	783.22	457.74	1,336.06	1,268.26	67.80	19.705	
7,800.00	7,387.61	7,470.44	7,381.92	27.92	40.75	87.07	783.18	457.78	1,310.69	1,242.72	67.96	19.286	
7,850.00	7,389.95	7,472.33	7,383.81	28.02	40.76	89.36	783.17	457.80	1,286.27	1,218.17	68.10	18.887	
7,858.73	7,390.00	7,472.32	7,383.80	28.04	40.76	89.74	783.17	457.80	1,282.12	1,213.99	68.13	18.820	
7,900.00	7,390.00	7,472.02	7,383.50	28.17	40.75	89.72	783.17	457.79	1,263.10	1,194.87	68.23	18.512	
8,000.00	7,390.00	7,471.28	7,382.76	28.61	40.75	89.68	783.17	457.79	1,221.59	1,153.13	68.46	17.844	
8,100.00	7,390.00	7,470.54	7,382.02	29.16	40.75	89.65	783.18	457.78	1,187.07	1,118.42	68.65	17.293	
8,200.00	7,390.00	7,469.79	7,381.27	29.79	40.75	89.61	783.18	457.77	1,160.17	1,091.40	68.77	16.871	
8,300.00	7,390.00	7,469.04	7,380.52	30.50	40.75	89.57	783.19	457.77	1,141.42	1,072.62	68.80	16.591	
8,400.00	7,390.00	7,468.27	7,379.75	31.27	40.74	89.53	783.20	457.76	1,131.23	1,062.51	68.73	16.460	
8,465.76	7,390.00	7,467.76	7,379.24	31.82	40.74	89.50	783.20	457.76	1,129.32	1,060.69	68.63	16.455 CC, ES, SF	
8,500.00	7,390.00	7,467.49	7,378.97	32.10	40.74	89.49	783.20	457.75	1,129.84	1,061.29	68.55	16.482	
8,600.00	7,390.00	7,466.71	7,378.19	32.98	40.74	89.45	783.21	457.75	1,137.27	1,069.00	68.27	16.658	
8,700.00	7,390.00	7,465.92	7,377.40	33.91	40.73	89.41	783.21	457.74	1,153.36	1,085.44	67.91	16.983	
8,800.00	7,390.00	7,465.11	7,376.59	34.89	40.73	89.37	783.22	457.73	1,177.74	1,110.25	67.49	17.449	
8,900.00	7,390.00	7,464.30	7,375.78	35.91	40.73	89.33	783.23	457.73	1,209.93	1,142.88	67.05	18.046	
9,000.00	7,390.00	7,463.48	7,374.96	36.96	40.73	89.29	783.23	457.72	1,249.30	1,182.70	66.60	18.758	
9,100.00	7,390.00	7,462.65	7,374.13	38.06	40.72	89.25	783.24	457.71	1,295.22	1,229.05	66.17	19.574	
9,200.00	7,390.00	7,461.81	7,373.29	39.18	40.72	89.20	783.25	457.71	1,347.01	1,281.24	65.78	20.479	
9,300.00	7,390.00	7,460.96	7,372.44	40.34	40.72	89.16	783.25	457.70	1,404.02	1,338.60	65.43	21.460	
9,400.00	7,390.00	7,460.09	7,371.57	41.52	40.72	89.12	783.26	457.69	1,465.65	1,400.53	65.12	22.507	

Cathedral Energy Services

Anticollision Report

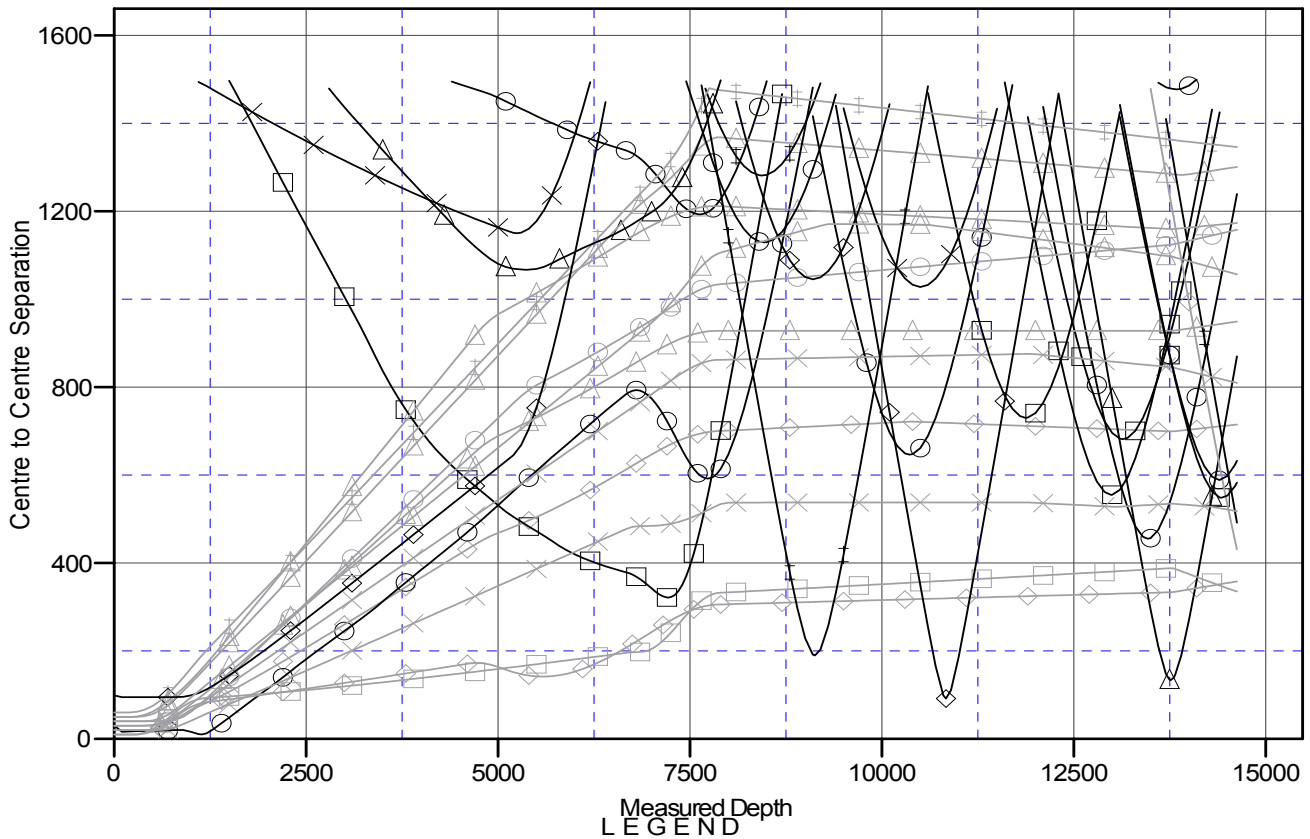
Company: Crestone Peak Resources
Project: DJ BASIN
Reference Site: S26-T2N-R68W
Site Error: 0.00usft
Reference Well: SULLIVAN 4G-26H-P268
Well Error: 0.00usft
Reference Wellbore: OH
Reference Design: PLAN #2

Local Co-ordinate Reference: Well SULLIVAN 4G-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 4G-26H-P268
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.35°

Ladder Plot



SULLIVAN 4G-26H-P268, OH, PLAN #2 V0

Grant Brothers 23-54, EXTRACTION, SURVEYS V0

SULLIVAN 4-26, CPR, SURVEYS V0

SULLIVAN 4-26, CPR WELL, SURVEYS V0

Grant Brothers 34-23C, EXTRACTION, GYRO V0

Grant Brothers 23-4AE, EXTRACTION, SURVEYS V0

SULLIVAN 4B-26H-P268, OH, PLAN #4 V0

Grant Brothers 23-2AE, EXTRACTION, SURVEYS V0

SULLIVAN 3-23, CPR WELL, SURVEYS V0

SULLIVAN 4-26, CPR WELL, GYRO V0

SULLIVAN 4-26, CPR WELL, GYRO V0

SULLIVAN 4L-26H-P268, OH, PLAN #2 V0

SULLIVAN 4K-26H-P268, OH, PLAN #2 V0

SULLIVAN 4-6-26, CPR WELL, SURVEYS V0

SULLIVAN 4F-26H-P268, OH, PLAN #2 V0

SULLIVAN 33-26, CPR WELL, SURVEYS V0

SULLIVAN 4E-26H-P268, OH, PLAN #2 V0

Grant Brothers 42-26, CPR WELL, SURVEYS V0

Bybee 5, Wellbore #1, PLAN #1 V0

SULLIVAN 4D-26H-P268, OH, PLAN #2 V0

SULLIVAN 4J-26H-P268, OH, PLAN #2 V0

SULLIVAN 4-26, CPR WELL, GYRO V0

Johnson 1, KPK, NO SURVEYS V0

Grant Brothers 33-23C, EXTRACTION, NO SURVEYS V0

SULLIVAN 8-6-26, CPR WELL, SURVEYS V0

Grant Brothers 2-26, CPR, NO SURVEYS V0

Duke State 30-36, KMG WELL, SURVEYS V0

Meredith 1, KPK WELL, NO SURVEYS V0

Grant Brothers 32-26, CPR, GYRO V0

SULLIVAN 4C-26H-P268, OH, PLAN #3 V0

SULLIVAN 1, CPR, NO SURVEYS V0

Grant Brothers 23-43, EXTRACTION, SURVEYS V0

Grant Brothers 23-43, EXTRACTION, SURVEYS V0

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