



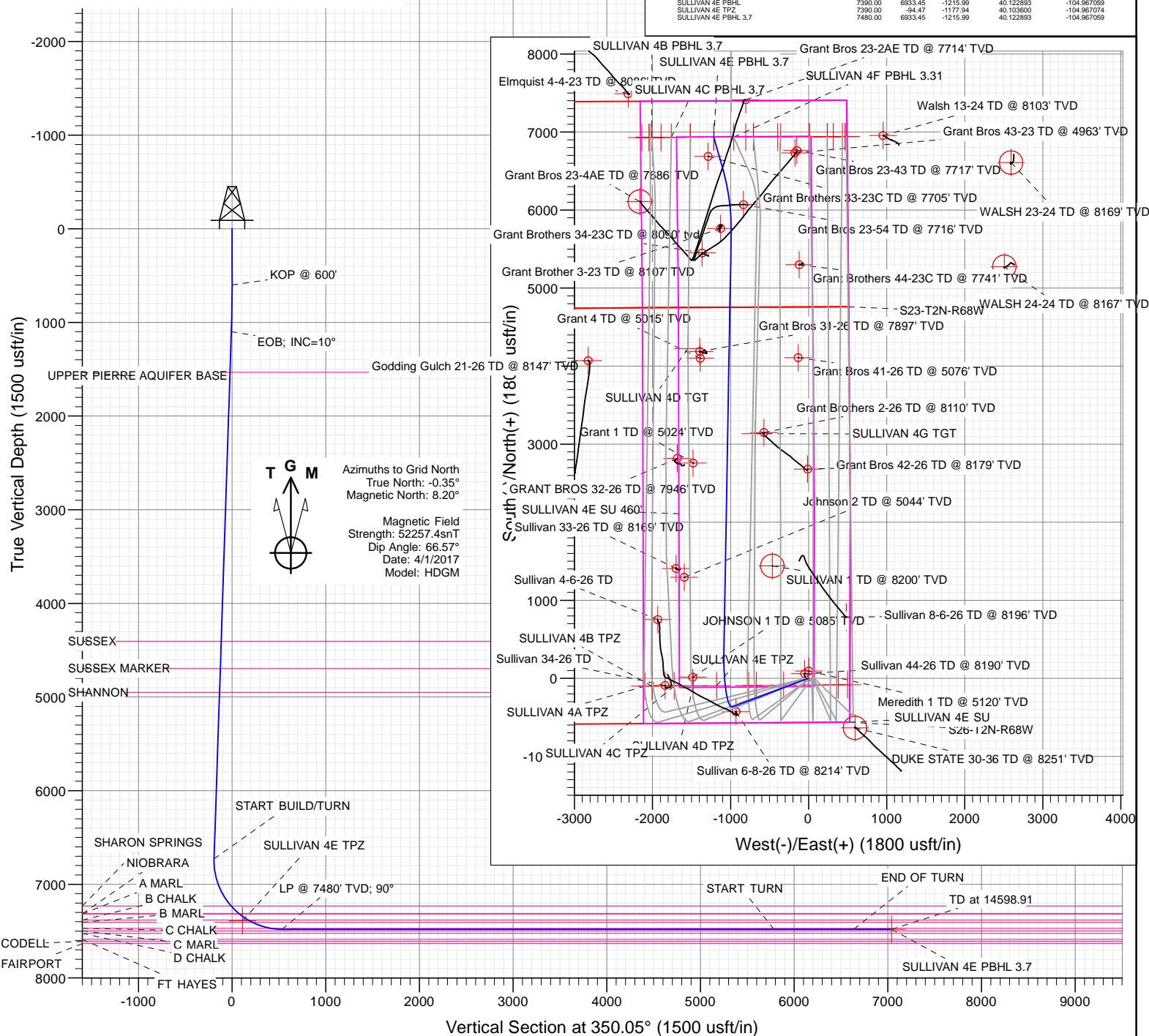
Project: DJ BASIN
Site: S26-T2N-R68W
Well: SULLIVAN 4E-26H-P268
Wellbore: OH
Design: PLAN #3

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	1102.07	10.04	249.41	1099.50	-15.43	-41.08	2.00	249.41	-8.11	
4	6818.10	10.04	249.41	6727.97	-365.96	-974.04	0.00	0.00	-192.20	
5	7989.08	90.00	1.00	7480.00	350.81	-1085.37	8.00	111.29	533.03	
6	13339.08	90.00	1.00	7480.00	5700.00	-992.00	0.00	0.00	5785.67	
7	14192.60	90.00	343.93	7480.00	6543.02	-1103.51	2.00	-90.00	6635.29	
8	14598.91	90.00	343.93	7480.00	6933.45	-1215.99	0.00	0.00	7039.27	SULLIVAN 4E PBHL 3.7

PLAN #3
SULLIVAN 4E-26H-P268
16XXX: LR
23' KB @ 4987.00usft
Ground Level @ 4964.00
North American Datum 1983
Well SULLIVAN 4E-26H-P268, Grid North

Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
	No Target (Freehand)	350.05	Slot				0.00	0.00
Name		TVD	+N/-S		+E/-W		Latitude	Longitude
SULLIVAN 4E PBHL		7390.00	6933.45		-1215.99		40.122893	-104.967059
SULLIVAN 4E TP2		7390.00	6944.47		-1197.94		40.103690	-104.967074
SULLIVAN 4E PBHL 3.7		7480.00	6933.45		-1215.99		40.122893	-104.967059



CATHEDRAL

WELL DETAILS: SULLIVAN 4E-26H-P268

+N/-S	+E/-W	Northing	Ground Level:	4964.00	Latitude	Longitude
0.00	0.00	1281128.25	Easting		40.103840	-104.962861



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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:		3,150,211.37 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Lat/Long		0.00 usft		13-3/16 "	
				40.103840	
				-104.963004	
				0.35 °	

Well	SULLIVAN 4E-26H-P268					
Well Position	+N/-S	0.00 usft	Northing:	1,281,128.25 usft	Latitude:	40.103840
	+E/-W	0.00 usft	Easting:	3,150,251.37 usft	Longitude:	-104.962861
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 #3			
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	350.05

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,102.07	10.04	249.41	1,099.50	-15.43	-41.08	2.00	2.00	0.00	249.41	
6,818.10	10.04	249.41	6,727.97	-365.96	-974.04	0.00	0.00	0.00	0.00	
7,989.08	90.00	1.00	7,480.00	350.81	-1,085.37	8.00	6.83	9.53	111.29	
13,339.08	90.00	1.00	7,480.00	5,700.00	-992.00	0.00	0.00	0.00	0.00	
14,192.60	90.00	343.93	7,480.00	6,543.02	-1,103.51	2.00	0.00	-2.00	-90.00	
14,598.91	90.00	343.93	7,480.00	6,933.45	-1,215.99	0.00	0.00	0.00	0.00	SULLIVAN 4E PBHL :

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	KOP @ 600'
700.00	2.00	249.41	699.98	-0.61	-1.63	-0.32	2.00	2.00	
800.00	4.00	249.41	799.84	-2.45	-6.53	-1.29	2.00	2.00	
900.00	6.00	249.41	899.45	-5.52	-14.69	-2.90	2.00	2.00	
1,000.00	8.00	249.41	998.70	-9.81	-26.10	-5.15	2.00	2.00	
1,100.00	10.00	249.41	1,097.47	-15.31	-40.74	-8.04	2.00	2.00	
1,102.07	10.04	249.41	1,099.50	-15.43	-41.08	-8.11	2.00	2.00	EOB; INC=10°
1,200.00	10.04	249.41	1,195.93	-21.44	-57.06	-11.26	0.00	0.00	
1,300.00	10.04	249.41	1,294.40	-27.57	-73.39	-14.48	0.00	0.00	
1,400.00	10.04	249.41	1,392.87	-33.70	-89.71	-17.70	0.00	0.00	
1,500.00	10.04	249.41	1,491.34	-39.84	-106.03	-20.92	0.00	0.00	
1,542.31	10.04	249.41	1,533.00	-42.43	-112.93	-22.28	0.00	0.00	UPPER PIERRE AQUIFER BASE
1,600.00	10.04	249.41	1,589.81	-45.97	-122.35	-24.14	0.00	0.00	
1,700.00	10.04	249.41	1,688.27	-52.10	-138.67	-27.36	0.00	0.00	
1,800.00	10.04	249.41	1,786.74	-58.23	-154.99	-30.58	0.00	0.00	
1,900.00	10.04	249.41	1,885.21	-64.37	-171.32	-33.80	0.00	0.00	
2,000.00	10.04	249.41	1,983.68	-70.50	-187.64	-37.02	0.00	0.00	
2,100.00	10.04	249.41	2,082.15	-76.63	-203.96	-40.25	0.00	0.00	
2,200.00	10.04	249.41	2,180.62	-82.76	-220.28	-43.47	0.00	0.00	
2,300.00	10.04	249.41	2,279.08	-88.89	-236.60	-46.69	0.00	0.00	
2,400.00	10.04	249.41	2,377.55	-95.03	-252.93	-49.91	0.00	0.00	
2,500.00	10.04	249.41	2,476.02	-101.16	-269.25	-53.13	0.00	0.00	
2,600.00	10.04	249.41	2,574.49	-107.29	-285.57	-56.35	0.00	0.00	
2,700.00	10.04	249.41	2,672.96	-113.42	-301.89	-59.57	0.00	0.00	
2,800.00	10.04	249.41	2,771.43	-119.56	-318.21	-62.79	0.00	0.00	
2,900.00	10.04	249.41	2,869.89	-125.69	-334.54	-66.01	0.00	0.00	
3,000.00	10.04	249.41	2,968.36	-131.82	-350.86	-69.23	0.00	0.00	
3,100.00	10.04	249.41	3,066.83	-137.95	-367.18	-72.45	0.00	0.00	
3,200.00	10.04	249.41	3,165.30	-144.09	-383.50	-75.67	0.00	0.00	
3,300.00	10.04	249.41	3,263.77	-150.22	-399.82	-78.89	0.00	0.00	
3,400.00	10.04	249.41	3,362.23	-156.35	-416.15	-82.11	0.00	0.00	
3,500.00	10.04	249.41	3,460.70	-162.48	-432.47	-85.33	0.00	0.00	
3,600.00	10.04	249.41	3,559.17	-168.61	-448.79	-88.55	0.00	0.00	
3,700.00	10.04	249.41	3,657.64	-174.75	-465.11	-91.78	0.00	0.00	
3,800.00	10.04	249.41	3,756.11	-180.88	-481.43	-95.00	0.00	0.00	
3,900.00	10.04	249.41	3,854.58	-187.01	-497.76	-98.22	0.00	0.00	
4,000.00	10.04	249.41	3,953.04	-193.14	-514.08	-101.44	0.00	0.00	
4,100.00	10.04	249.41	4,051.51	-199.28	-530.40	-104.66	0.00	0.00	
4,200.00	10.04	249.41	4,149.98	-205.41	-546.72	-107.88	0.00	0.00	
4,300.00	10.04	249.41	4,248.45	-211.54	-563.04	-111.10	0.00	0.00	
4,400.00	10.04	249.41	4,346.92	-217.67	-579.36	-114.32	0.00	0.00	
4,460.00	10.04	249.41	4,406.00	-221.35	-589.16	-116.25	0.00	0.00	SUSSEX
4,500.00	10.04	249.41	4,445.38	-223.81	-595.69	-117.54	0.00	0.00	
4,600.00	10.04	249.41	4,543.85	-229.94	-612.01	-120.76	0.00	0.00	
4,700.00	10.04	249.41	4,642.32	-236.07	-628.33	-123.98	0.00	0.00	
4,754.51	10.04	249.41	4,696.00	-239.41	-637.23	-125.74	0.00	0.00	SUSSEX MARKER

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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	10.04	249.41	4,740.79	-242.20	-644.65	-127.20	0.00	0.00	
4,900.00	10.04	249.41	4,839.26	-248.33	-660.97	-130.42	0.00	0.00	
5,000.00	10.04	249.41	4,937.73	-254.47	-677.30	-133.64	0.00	0.00	
5,012.46	10.04	249.41	4,950.00	-255.23	-679.33	-134.04	0.00	0.00	SHANNON
5,100.00	10.04	249.41	5,036.19	-260.60	-693.62	-136.86	0.00	0.00	
5,200.00	10.04	249.41	5,134.66	-266.73	-709.94	-140.08	0.00	0.00	
5,300.00	10.04	249.41	5,233.13	-272.86	-726.26	-143.31	0.00	0.00	
5,400.00	10.04	249.41	5,331.60	-279.00	-742.58	-146.53	0.00	0.00	
5,500.00	10.04	249.41	5,430.07	-285.13	-758.91	-149.75	0.00	0.00	
5,600.00	10.04	249.41	5,528.54	-291.26	-775.23	-152.97	0.00	0.00	
5,700.00	10.04	249.41	5,627.00	-297.39	-791.55	-156.19	0.00	0.00	
5,800.00	10.04	249.41	5,725.47	-303.53	-807.87	-159.41	0.00	0.00	
5,900.00	10.04	249.41	5,823.94	-309.66	-824.19	-162.63	0.00	0.00	
6,000.00	10.04	249.41	5,922.41	-315.79	-840.52	-165.85	0.00	0.00	
6,100.00	10.04	249.41	6,020.88	-321.92	-856.84	-169.07	0.00	0.00	
6,200.00	10.04	249.41	6,119.34	-328.06	-873.16	-172.29	0.00	0.00	
6,300.00	10.04	249.41	6,217.81	-334.19	-889.48	-175.51	0.00	0.00	
6,400.00	10.04	249.41	6,316.28	-340.32	-905.80	-178.73	0.00	0.00	
6,500.00	10.04	249.41	6,414.75	-346.45	-922.13	-181.95	0.00	0.00	
6,600.00	10.04	249.41	6,513.22	-352.58	-938.45	-185.17	0.00	0.00	
6,700.00	10.04	249.41	6,611.69	-358.72	-954.77	-188.39	0.00	0.00	
6,800.00	10.04	249.41	6,710.15	-364.85	-971.09	-191.61	0.00	0.00	
6,818.10	10.04	249.41	6,727.97	-365.96	-974.04	-192.20	0.00	0.00	START BUILD/TURN
6,900.00	9.78	288.17	6,808.74	-366.30	-987.35	-190.24	8.00	-0.32	
7,000.00	14.30	320.78	6,906.63	-354.06	-1,003.26	-175.44	8.00	4.53	
7,100.00	20.99	335.58	7,001.91	-328.15	-1,018.49	-147.28	8.00	6.68	
7,200.00	28.34	343.22	7,092.75	-289.05	-1,032.77	-106.30	8.00	7.35	
7,300.00	35.95	347.88	7,177.37	-237.55	-1,045.81	-53.32	8.00	7.61	
7,368.64	41.25	350.18	7,231.00	-195.52	-1,053.90	-10.52	8.00	7.72	SHARON SPRINGS
7,400.00	43.69	351.07	7,254.13	-174.63	-1,057.35	10.65	8.00	7.76	
7,486.46	50.43	353.18	7,313.00	-111.96	-1,065.95	73.85	8.00	7.80	NIOBRARA
7,492.77	50.92	353.32	7,317.00	-107.11	-1,066.52	78.73	8.00	7.82	A MARL
7,500.00	51.49	353.47	7,321.53	-101.52	-1,067.17	84.35	8.00	7.82	
7,600.00	59.33	355.40	7,378.26	-19.65	-1,075.08	166.36	8.00	7.84	
7,609.40	60.07	355.56	7,383.00	-11.55	-1,075.72	174.44	8.00	7.86	B CHALK
7,658.40	63.92	356.38	7,406.00	31.59	-1,078.76	217.46	8.00	7.86	B MARL
7,700.00	67.20	357.03	7,423.21	69.40	-1,080.93	255.08	8.00	7.87	
7,800.00	75.08	358.49	7,455.51	163.88	-1,084.60	348.77	8.00	7.88	
7,868.45	80.48	359.42	7,470.00	230.75	-1,085.82	414.84	8.00	7.89	C CHALK
7,900.00	82.97	359.84	7,474.54	261.96	-1,086.02	445.62	8.00	7.89	
7,989.08	90.00	1.00	7,480.00	350.81	-1,085.37	533.03	8.00	7.89	LP @ 7480' TVD; 90°
8,000.00	90.00	1.00	7,480.00	361.73	-1,085.18	543.75	0.00	0.00	
8,100.00	90.00	1.00	7,480.00	461.72	-1,083.43	641.93	0.00	0.00	
8,200.00	90.00	1.00	7,480.00	561.70	-1,081.69	740.11	0.00	0.00	
8,300.00	90.00	1.00	7,480.00	661.68	-1,079.94	838.29	0.00	0.00	
8,400.00	90.00	1.00	7,480.00	761.67	-1,078.20	936.47	0.00	0.00	
8,500.00	90.00	1.00	7,480.00	861.65	-1,076.45	1,034.65	0.00	0.00	
8,600.00	90.00	1.00	7,480.00	961.64	-1,074.71	1,132.83	0.00	0.00	
8,700.00	90.00	1.00	7,480.00	1,061.62	-1,072.96	1,231.01	0.00	0.00	
8,800.00	90.00	1.00	7,480.00	1,161.61	-1,071.22	1,329.19	0.00	0.00	
8,900.00	90.00	1.00	7,480.00	1,261.59	-1,069.47	1,427.37	0.00	0.00	
9,000.00	90.00	1.00	7,480.00	1,361.58	-1,067.73	1,525.55	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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
9,100.00	90.00	1.00	7,480.00	1,461.56	-1,065.98	1,623.73	0.00	0.00	
9,200.00	90.00	1.00	7,480.00	1,561.55	-1,064.24	1,721.91	0.00	0.00	
9,300.00	90.00	1.00	7,480.00	1,661.53	-1,062.49	1,820.09	0.00	0.00	
9,400.00	90.00	1.00	7,480.00	1,761.52	-1,060.75	1,918.27	0.00	0.00	
9,500.00	90.00	1.00	7,480.00	1,861.50	-1,059.00	2,016.45	0.00	0.00	
9,600.00	90.00	1.00	7,480.00	1,961.49	-1,057.26	2,114.63	0.00	0.00	
9,700.00	90.00	1.00	7,480.00	2,061.47	-1,055.51	2,212.81	0.00	0.00	
9,800.00	90.00	1.00	7,480.00	2,161.46	-1,053.77	2,310.99	0.00	0.00	
9,900.00	90.00	1.00	7,480.00	2,261.44	-1,052.02	2,409.17	0.00	0.00	
10,000.00	90.00	1.00	7,480.00	2,361.43	-1,050.28	2,507.35	0.00	0.00	
10,100.00	90.00	1.00	7,480.00	2,461.41	-1,048.53	2,605.53	0.00	0.00	
10,200.00	90.00	1.00	7,480.00	2,561.40	-1,046.78	2,703.71	0.00	0.00	
10,300.00	90.00	1.00	7,480.00	2,661.38	-1,045.04	2,801.89	0.00	0.00	
10,400.00	90.00	1.00	7,480.00	2,761.36	-1,043.29	2,900.07	0.00	0.00	
10,500.00	90.00	1.00	7,480.00	2,861.35	-1,041.55	2,998.26	0.00	0.00	
10,600.00	90.00	1.00	7,480.00	2,961.33	-1,039.80	3,096.44	0.00	0.00	
10,700.00	90.00	1.00	7,480.00	3,061.32	-1,038.06	3,194.62	0.00	0.00	
10,800.00	90.00	1.00	7,480.00	3,161.30	-1,036.31	3,292.80	0.00	0.00	
10,900.00	90.00	1.00	7,480.00	3,261.29	-1,034.57	3,390.98	0.00	0.00	
11,000.00	90.00	1.00	7,480.00	3,361.27	-1,032.82	3,489.16	0.00	0.00	
11,100.00	90.00	1.00	7,480.00	3,461.26	-1,031.08	3,587.34	0.00	0.00	
11,200.00	90.00	1.00	7,480.00	3,561.24	-1,029.33	3,685.52	0.00	0.00	
11,300.00	90.00	1.00	7,480.00	3,661.23	-1,027.59	3,783.70	0.00	0.00	
11,400.00	90.00	1.00	7,480.00	3,761.21	-1,025.84	3,881.88	0.00	0.00	
11,500.00	90.00	1.00	7,480.00	3,861.20	-1,024.10	3,980.06	0.00	0.00	
11,600.00	90.00	1.00	7,480.00	3,961.18	-1,022.35	4,078.24	0.00	0.00	
11,700.00	90.00	1.00	7,480.00	4,061.17	-1,020.61	4,176.42	0.00	0.00	
11,800.00	90.00	1.00	7,480.00	4,161.15	-1,018.86	4,274.60	0.00	0.00	
11,900.00	90.00	1.00	7,480.00	4,261.14	-1,017.12	4,372.78	0.00	0.00	
12,000.00	90.00	1.00	7,480.00	4,361.12	-1,015.37	4,470.96	0.00	0.00	
12,100.00	90.00	1.00	7,480.00	4,461.11	-1,013.62	4,569.14	0.00	0.00	
12,200.00	90.00	1.00	7,480.00	4,561.09	-1,011.88	4,667.32	0.00	0.00	
12,300.00	90.00	1.00	7,480.00	4,661.08	-1,010.13	4,765.50	0.00	0.00	
12,400.00	90.00	1.00	7,480.00	4,761.06	-1,008.39	4,863.68	0.00	0.00	
12,500.00	90.00	1.00	7,480.00	4,861.05	-1,006.64	4,961.86	0.00	0.00	
12,600.00	90.00	1.00	7,480.00	4,961.03	-1,004.90	5,060.04	0.00	0.00	
12,700.00	90.00	1.00	7,480.00	5,061.01	-1,003.15	5,158.22	0.00	0.00	
12,800.00	90.00	1.00	7,480.00	5,161.00	-1,001.41	5,256.40	0.00	0.00	
12,900.00	90.00	1.00	7,480.00	5,260.98	-999.66	5,354.58	0.00	0.00	
13,000.00	90.00	1.00	7,480.00	5,360.97	-997.92	5,452.76	0.00	0.00	
13,100.00	90.00	1.00	7,480.00	5,460.95	-996.17	5,550.94	0.00	0.00	
13,200.00	90.00	1.00	7,480.00	5,560.94	-994.43	5,649.12	0.00	0.00	
13,300.00	90.00	1.00	7,480.00	5,660.92	-992.68	5,747.30	0.00	0.00	
13,339.08	90.00	1.00	7,480.00	5,700.00	-992.00	5,785.67	0.00	0.00	START TURN
13,400.00	90.00	359.78	7,480.00	5,760.91	-991.58	5,845.60	2.00	0.00	
13,500.00	90.00	357.78	7,480.00	5,860.89	-993.71	5,944.44	2.00	0.00	
13,600.00	90.00	355.78	7,480.00	5,960.72	-999.32	6,043.74	2.00	0.00	
13,700.00	90.00	353.78	7,480.00	6,060.30	-1,008.42	6,143.40	2.00	0.00	
13,800.00	90.00	351.78	7,480.00	6,159.51	-1,020.98	6,243.28	2.00	0.00	
13,900.00	90.00	349.78	7,480.00	6,258.21	-1,037.00	6,343.27	2.00	0.00	
14,000.00	90.00	347.78	7,480.00	6,356.29	-1,056.46	6,443.24	2.00	0.00	
14,100.00	90.00	345.78	7,480.00	6,453.64	-1,079.32	6,543.07	2.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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
14,192.60	90.00	343.93	7,480.00	6,543.02	-1,103.51	6,635.29	2.00	0.00	END OF TURN
14,200.00	90.00	343.93	7,480.00	6,550.13	-1,105.56	6,642.64	0.00	0.00	
14,300.00	90.00	343.93	7,480.00	6,646.22	-1,133.24	6,742.07	0.00	0.00	
14,400.00	90.00	343.93	7,480.00	6,742.32	-1,160.92	6,841.50	0.00	0.00	
14,500.00	90.00	343.93	7,480.00	6,838.41	-1,188.61	6,940.93	0.00	0.00	
14,598.91	90.00	343.93	7,480.00	6,933.45	-1,215.99	7,039.27	0.00	0.00	TD at 14598.91

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 4E PBHL - plan misses target center by 90.00usft at 14598.91usft MD (7480.00 TVD, 6933.45 N, -1215.99 E) - Point	0.00	0.00	7,390.00	6,933.45	-1,215.99	1,288,061.70	3,149,035.39	40.122893	-104.967059
SULLIVAN 4E PBHL 3.7 - plan hits target center - Point	0.00	0.00	7,480.00	6,933.45	-1,215.99	1,288,061.70	3,149,035.39	40.122893	-104.967059
SULLIVAN 4E TPZ - plan misses target center by 118.01usft at 7553.46usft MD (7353.26 TVD, -58.74 N, -1071.65 E) - Point	0.00	0.00	7,390.00	-94.47	-1,177.94	1,281,033.77	3,149,073.43	40.103600	-104.967074

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,542.31	1,533.00	UPPER PIERRE AQUIFER BASE			
4,460.00	4,406.00	SUSSEX			
4,754.51	4,696.00	SUSSEX MARKER			
5,012.46	4,950.00	SHANNON			
7,368.64	7,231.00	SHARON SPRINGS			
7,486.46	7,313.00	NIOBRARA			
7,492.77	7,317.00	A MARL			
7,609.40	7,383.00	B CHALK			
7,658.40	7,406.00	B MARL			
7,868.45	7,470.00	C CHALK			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.00	600.00	0.00	0.00	KOP @ 600'
1,102.07	1,099.50	-15.43	-41.08	EOB; INC=10°
6,818.10	6,727.97	-365.96	-974.04	START BUILD/TURN
7,989.08	7,480.00	350.81	-1,085.37	LP @ 7480' TVD; 90°
13,339.08	7,480.00	5,700.00	-992.00	START TURN
14,192.60	7,480.00	6,543.02	-1,103.51	END OF TURN
14,598.91	7,480.00	6,933.45	-1,215.99	TD at 14598.91

Crestone Peak Resources

DJ BASIN

S26-T2N-R68W

SULLIVAN 4E-26H-P268

OH

PLAN #3

Anticollision Report

05 April, 2017

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Reference	PLAN #3		
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	4/5/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,598.91	PLAN #3 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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	14,598.91	12,639.47	412.25	281.54	3.154	CC, ES, SF
Duke State 30-36 - KMG WELL - SURVEYS	5,056.36	5,254.30	1,390.43	1,346.09	31.357	CC
Duke State 30-36 - KMG WELL - SURVEYS	5,100.00	5,280.00	1,390.72	1,346.03	31.122	ES
Duke State 30-36 - KMG WELL - SURVEYS	6,100.00	6,094.52	1,491.85	1,440.16	28.861	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	14,598.91	7,604.58	1,226.88	1,092.52	9.132	CC, ES, SF
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	14,598.91	7,817.04	623.99	512.02	5.573	CC, ES, SF
Grant Bros 23-43 - EXTRACTION - SURVEYS	14,148.83	7,725.98	974.24	840.49	7.284	CC
Grant Bros 23-43 - EXTRACTION - SURVEYS	14,192.60	7,726.76	975.56	839.66	7.178	ES
Grant Bros 23-43 - EXTRACTION - SURVEYS	14,300.00	7,728.69	987.85	847.56	7.042	SF
Grant Bros 23-4AE - EXTRACTION - SURVEYS	13,986.97	7,527.33	1,130.68	1,002.73	8.836	CC
Grant Bros 23-4AE - EXTRACTION - SURVEYS	14,000.00	7,527.44	1,130.73	1,002.62	8.826	ES
Grant Bros 23-4AE - EXTRACTION - SURVEYS	14,100.00	7,528.33	1,134.10	1,005.28	8.804	SF
Grant Bros 23-54 - EXTRACTION - SURVEYS	13,691.54	7,539.13	195.70	74.50	1.615	CC
Grant Bros 23-54 - EXTRACTION - SURVEYS	13,700.00	7,539.14	195.89	74.35	1.612	ES, SF
Grant Bros 31-26 - CPR WELL - GYRO	11,814.60	7,423.27	381.23	295.52	4.448	CC, ES, SF
Grant Bros 32-26 - CPR - GYRO	10,435.50	7,437.17	646.23	579.92	9.746	CC, ES
Grant Bros 32-26 - CPR - GYRO	10,500.00	7,438.42	649.44	581.61	9.574	SF
Grant Bros 3-23 - CPR WELL - SURVEYS	13,411.27	7,431.55	140.98	37.80	1.366	Level 3, CC, ES, SF
Grant Bros 41-26 - SUNDANCE WELL - NO SURVEYS						Out of range
Grant Bros 42-26 - CPR WELL - SURVEYS	10,332.08	7,504.58	1,029.60	960.06	14.805	CC, ES, SF
Grant Bros 43-23 - SUNDANCE WELL - NO SURVEYS						Out of range
Grant Brothers 2-26 - CPR - NO SURVEYS	10,795.89	7,437.99	464.14	392.80	6.506	CC, ES, SF
Grant Brothers 33-23C - EXTRACTION - NO SURVEYS	14,381.98	7,403.99	136.91	12.53	1.101	Level 2, CC, ES, SF
Grant Brothers 34-23C - EXTRACTION - GYRO	13,080.00	7,420.05	362.57	258.82	3.495	CC
Grant Brothers 34-23C - EXTRACTION - GYRO	13,100.00	7,420.13	363.12	258.64	3.476	ES, SF
Grant Brothers 44-23C - EXTRACTION - GYRO	12,954.30	7,450.69	878.25	776.27	8.612	CC, ES, 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	5,309.71	5,085.00	816.81	786.99	27.390	CC, ES, SF
Johnson 2 - KPK WELL - NO SURVEYS						Out of range
Meredith 1 - KPK WELL - NO SURVEYS	600.00	571.99	92.96	90.03	31.738	CC, ES
Meredith 1 - KPK WELL - NO SURVEYS	1,102.07	1,071.49	116.50	110.92	20.881	SF
Puritan 6-4-34 - CPR WELL - SURVEYS						Out of range
Sullivan 1 - CPR - NO SURVEYS	9,088.74	7,464.00	601.33	555.93	13.243	CC, ES, SF
Sullivan 33-26 - CPR WELL - SURVEYS	9,036.72	7,436.22	632.83	589.04	14.450	CC, ES

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
S26-T2N-R68W						
Sullivan 33-26 - CPR WELL - SURVEYS	9,200.00	7,435.57	653.56	607.26	14.117	SF
Sullivan 34-26 - CPR WELL - SURVEYS	7,578.39	7,325.14	764.44	724.09	18.945	CC, ES
Sullivan 34-26 - CPR WELL - SURVEYS	7,650.00	7,360.37	767.63	727.03	18.907	SF
Sullivan 44-26 - CPR WELL - GYRO	100.00	73.86	20.12	19.84	73.793	CC
Sullivan 44-26 - CPR WELL - GYRO	500.00	473.90	22.07	19.68	9.200	ES
Sullivan 44-26 - CPR WELL - GYRO	800.00	773.61	27.06	23.08	6.811	SF
Sullivan 4-6-26 - CPR WELL - SURVEYS	8,366.26	7,522.17	853.69	804.58	17.381	CC, ES
Sullivan 4-6-26 - CPR WELL - SURVEYS	8,500.00	7,523.92	864.10	813.35	17.025	SF
SULLIVAN 4A-26H-P268 - OH - PLAN #4	200.00	200.00	40.00	39.01	40.284	CC, ES
SULLIVAN 4A-26H-P268 - OH - PLAN #4	14,598.91	15,143.11	828.22	600.42	3.636	SF
SULLIVAN 4B-26H-P268 - OH - PLAN #4	300.00	300.00	29.93	28.22	17.504	CC, ES
SULLIVAN 4B-26H-P268 - OH - PLAN #4	14,598.91	14,737.62	796.79	564.00	3.423	SF
SULLIVAN 4C-26H-P268 - OH - PLAN #3	400.00	400.00	19.86	17.43	8.184	CC, ES
SULLIVAN 4C-26H-P268 - OH - PLAN #3	14,598.91	14,901.25	542.80	310.19	2.333	SF
SULLIVAN 4D-26H-P268 - OH - PLAN #2	500.00	500.00	10.07	6.93	3.203	CC, ES
SULLIVAN 4D-26H-P268 - OH - PLAN #2	14,598.91	14,745.41	313.00	84.65	1.371	Level 3, SF
SULLIVAN 4F-26H-P268 - OH - PLAN #3	335.60	335.65	9.55	7.60	4.910	CC
SULLIVAN 4F-26H-P268 - OH - PLAN #3	400.00	400.05	9.89	7.48	4.114	ES
SULLIVAN 4F-26H-P268 - OH - PLAN #3	14,528.90	14,886.04	279.37	64.77	1.302	Level 3, SF
SULLIVAN 4G-26H-P268 - OH - PLAN #2	600.00	600.00	20.14	16.28	5.217	CC, ES
SULLIVAN 4G-26H-P268 - OH - PLAN #2	13,800.00	13,875.44	395.80	193.68	1.958	SF
SULLIVAN 4H-26H-P268 - OH - PLAN #2	200.00	200.00	29.93	28.94	30.091	CC
SULLIVAN 4H-26H-P268 - OH - PLAN #2	300.00	299.95	29.99	28.30	17.677	ES
SULLIVAN 4H-26H-P268 - OH - PLAN #2	13,700.00	13,826.67	639.75	435.12	3.126	SF
SULLIVAN 4I-26H-P268 - OH - PLAN #2	300.00	300.00	40.00	38.29	23.395	CC
SULLIVAN 4I-26H-P268 - OH - PLAN #2	400.00	399.92	40.09	37.68	16.633	ES
SULLIVAN 4I-26H-P268 - OH - PLAN #2	13,900.00	13,935.68	1,063.06	852.06	5.038	SF
SULLIVAN 4J-26H-P268 - OH - PLAN #2	303.93	303.93	50.07	48.33	28.809	CC
SULLIVAN 4J-26H-P268 - OH - PLAN #2	400.00	399.65	50.24	47.83	20.776	ES
SULLIVAN 4J-26H-P268 - OH - PLAN #2	14,000.00	14,115.15	1,298.62	1,083.86	6.047	SF
SULLIVAN 4K-26H-P268 - OH - PLAN #2	600.00	600.00	60.14	56.28	15.578	CC, ES
SULLIVAN 4K-26H-P268 - OH - PLAN #2	14,000.00	14,223.57	1,487.22	1,273.99	6.975	SF
SULLIVAN 4L-26H-P268 - OH - PLAN #2	200.00	200.00	69.94	68.94	70.430	CC, ES
SULLIVAN 4L-26H-P268 - OH - PLAN #2	13,600.00	13,594.91	1,494.84	1,293.36	7.419	SF
Sullivan 6-8-26 - CPR - SURVEYS	6,800.00	6,808.54	88.09	43.64	1.982	ES, SF
Sullivan 6-8-26 - CPR - SURVEYS	6,823.38	6,831.54	87.86	43.72	1.990	CC
Sullivan 8-6-26 - CPR WELL - SURVEYS	3,057.56	3,226.31	1,493.05	1,467.73	58.972	CC
Sullivan 8-6-26 - CPR WELL - SURVEYS	3,300.00	3,458.03	1,494.56	1,466.75	53.748	ES
Sullivan 8-6-26 - CPR WELL - SURVEYS	3,500.00	3,644.79	1,498.58	1,468.73	50.215	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 4E-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 4E-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 #3	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	7,480.00	12,639.47	7,272.00	98.46	87.87	23.74	7,256.00	-992.29	1,400.79	1,341.36	59.43	23.571		
13,600.00	7,480.00	12,639.47	7,272.00	100.01	87.87	39.07	7,256.00	-992.29	1,301.40	1,241.71	59.69	21.802		
13,700.00	7,480.00	12,639.47	7,272.00	101.59	87.87	49.12	7,256.00	-992.29	1,202.42	1,142.31	60.11	20.002		
13,800.00	7,480.00	12,639.47	7,272.00	103.20	87.87	55.76	7,256.00	-992.29	1,104.08	1,043.29	60.79	18.162		
13,900.00	7,480.00	12,639.47	7,272.00	104.82	87.87	60.31	7,256.00	-992.29	1,006.70	944.80	61.90	16.263		
14,000.00	7,480.00	12,639.47	7,272.00	106.47	87.87	63.54	7,256.00	-992.29	910.74	847.00	63.74	14.288		
14,100.00	7,480.00	12,639.47	7,272.00	108.14	87.87	65.88	7,256.00	-992.29	816.84	750.02	66.82	12.225		
14,192.60	7,480.00	12,639.47	7,272.00	109.70	87.87	67.50	7,256.00	-992.29	732.51	661.06	71.45	10.251		
14,200.00	7,480.00	12,639.47	7,272.00	109.82	87.87	67.50	7,256.00	-992.29	725.91	653.99	71.92	10.093		
14,300.00	7,480.00	12,639.47	7,272.00	111.52	87.87	67.50	7,256.00	-992.29	638.41	558.53	79.88	7.992		
14,400.00	7,480.00	12,639.47	7,272.00	113.22	87.87	67.50	7,256.00	-992.29	555.14	463.50	91.64	6.058		
14,500.00	7,480.00	12,639.47	7,272.00	114.93	87.87	67.50	7,256.00	-992.29	478.33	369.90	108.43	4.411		
14,598.91	7,480.00	12,639.47	7,272.00	116.63	87.87	67.50	7,256.00	-992.29	412.25	281.54	130.71	3.154	CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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
3,900.00	3,854.58	4,242.85	4,182.63	15.92	23.32	-134.47	-830.56	808.36	1,497.78	1,464.51	33.27	45.020	
4,000.00	3,953.04	4,346.66	4,283.03	16.36	24.21	-135.34	-811.27	790.40	1,486.05	1,451.79	34.26	43.378	
4,100.00	4,051.51	4,433.96	4,367.49	16.81	24.95	-136.10	-794.77	775.67	1,474.90	1,439.69	35.21	41.884	
4,200.00	4,149.98	4,543.77	4,474.03	17.26	25.86	-136.98	-776.35	756.47	1,464.49	1,428.28	36.21	40.441	
4,300.00	4,248.45	4,662.48	4,588.64	17.70	26.90	-137.92	-756.11	733.14	1,452.09	1,414.85	37.24	38.998	
4,400.00	4,346.92	4,760.00	4,682.70	18.15	27.76	-138.73	-738.86	714.05	1,439.89	1,401.66	38.23	37.666	
4,500.00	4,445.38	4,840.00	4,759.98	18.60	28.46	-139.38	-725.25	698.43	1,428.34	1,389.16	39.18	36.455	
4,600.00	4,543.85	4,923.71	4,841.15	19.04	29.16	-140.06	-711.76	683.08	1,418.45	1,378.31	40.14	35.336	
4,700.00	4,642.32	5,015.60	4,930.32	19.49	29.93	-140.84	-696.61	666.84	1,409.36	1,368.22	41.14	34.257	
4,800.00	4,740.79	5,099.96	5,012.24	19.94	30.63	-141.57	-682.47	652.51	1,401.13	1,359.00	42.13	33.256	
4,900.00	4,839.26	5,170.99	5,081.49	20.38	31.20	-142.17	-671.53	641.10	1,394.58	1,351.51	43.07	32.383	
5,000.00	4,937.73	5,223.56	5,133.06	20.83	31.58	-142.59	-664.48	633.78	1,390.94	1,347.04	43.89	31.688	
5,056.36	4,993.22	5,254.30	5,163.37	21.08	31.78	-142.82	-660.85	630.18	1,390.43	1,346.09	44.34	31.357 CC	
5,100.00	5,036.19	5,280.00	5,188.78	21.28	31.95	-143.01	-658.08	627.47	1,390.72	1,346.03	44.69	31.122 ES	
5,200.00	5,134.66	5,350.37	5,258.54	21.73	32.36	-143.49	-651.65	620.90	1,393.15	1,347.65	45.50	30.621	
5,300.00	5,233.13	5,433.07	5,340.73	22.17	32.80	-144.01	-645.46	614.17	1,397.37	1,351.03	46.34	30.155	
5,400.00	5,331.60	5,509.59	5,416.90	22.62	33.19	-144.46	-640.52	608.72	1,403.01	1,355.88	47.13	29.771	
5,500.00	5,430.07	5,576.39	5,483.51	23.07	33.49	-144.83	-637.28	604.94	1,410.65	1,362.82	47.82	29.498	
5,600.00	5,528.54	5,640.00	5,547.05	23.52	33.75	-145.15	-635.10	602.94	1,421.02	1,372.56	48.46	29.324	
5,700.00	5,627.00	5,699.68	5,606.72	23.96	33.92	-145.43	-633.94	602.44	1,434.05	1,385.06	48.98	29.276	
5,800.00	5,725.47	5,783.98	5,691.01	24.41	34.07	-145.78	-633.76	603.06	1,449.10	1,399.55	49.56	29.241	
5,900.00	5,823.94	5,912.10	5,819.13	24.86	34.31	-146.25	-634.44	602.82	1,463.62	1,413.23	50.39	29.047	
6,000.00	5,922.41	6,000.00	5,907.02	25.31	34.50	-146.58	-634.34	602.02	1,477.31	1,426.30	51.01	28.959	
6,100.00	6,020.88	6,094.52	6,001.55	25.75	34.71	-146.96	-633.68	602.07	1,491.85	1,440.16	51.69	28.861 SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design											S26-T2N-R68W - Elmquist 4-4-23 - CPR WELL - SURVEYS			Offset Site Error:		0.00 usft
Survey Program: 102-MWD													Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning			
14,300.00	7,480.00	7,603.58	7,419.58	111.52	50.35	-89.71	7,489.12	-2,309.81	1,447.34	1,327.59	119.75	12.086				
14,400.00	7,480.00	7,603.92	7,419.91	113.22	50.35	-89.73	7,489.12	-2,309.81	1,370.28	1,246.08	124.20	11.033				
14,500.00	7,480.00	7,604.25	7,420.25	114.93	50.35	-89.75	7,489.12	-2,309.81	1,296.35	1,167.27	129.09	10.043				
14,598.91	7,480.00	7,604.58	7,420.58	116.63	50.35	-89.78	7,489.12	-2,309.81	1,226.88	1,092.52	134.36	9.132	CC, ES, SF			

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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		
13,600.00	7,480.00	7,838.71	7,439.72	100.01	41.17	92.33	7,413.53	-816.96	1,464.25	1,405.12	59.13	24.764		
13,700.00	7,480.00	7,836.77	7,437.78	101.59	41.17	91.66	7,413.55	-817.04	1,366.75	1,306.66	60.09	22.747		
13,800.00	7,480.00	7,834.73	7,435.74	103.20	41.17	91.16	7,413.58	-817.13	1,270.56	1,209.12	61.44	20.680		
13,900.00	7,480.00	7,832.60	7,433.62	104.82	41.17	90.76	7,413.60	-817.21	1,176.13	1,112.79	63.34	18.569		
14,000.00	7,480.00	7,830.40	7,431.42	106.47	41.17	90.43	7,413.63	-817.30	1,084.05	1,018.07	65.98	16.429		
14,100.00	7,480.00	7,828.13	7,429.15	108.14	41.16	90.13	7,413.66	-817.39	995.11	925.47	69.64	14.289		
14,192.60	7,480.00	7,825.98	7,427.00	109.70	41.16	89.89	7,413.68	-817.47	916.44	842.22	74.22	12.347		
14,200.00	7,480.00	7,825.81	7,426.83	109.82	41.16	89.87	7,413.69	-817.48	910.34	835.70	74.65	12.196		
14,300.00	7,480.00	7,823.50	7,424.53	111.52	41.16	89.61	7,413.71	-817.57	829.88	748.69	81.19	10.222		
14,400.00	7,480.00	7,821.27	7,422.30	113.22	41.16	89.37	7,413.74	-817.65	754.11	664.64	89.47	8.429		
14,500.00	7,480.00	7,819.11	7,420.14	114.93	41.16	89.13	7,413.76	-817.74	684.57	584.81	99.76	6.862		
14,598.91	7,480.00	7,817.04	7,418.07	116.63	41.15	88.90	7,413.78	-817.81	623.99	512.02	111.97	5.573 CC, ES, SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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		
13,200.00	7,480.00	7,708.58	7,405.78	93.94	37.66	88.45	6,755.90	-151.55	1,462.49	1,376.06	86.43	16.921		
13,300.00	7,480.00	7,710.41	7,407.62	95.43	37.67	88.58	6,755.93	-151.55	1,380.93	1,291.49	89.44	15.440		
13,339.08	7,480.00	7,711.13	7,408.34	96.01	37.67	88.63	6,755.95	-151.55	1,349.73	1,259.01	90.72	14.878		
13,400.00	7,480.00	7,712.25	7,409.46	96.93	37.67	88.74	6,755.97	-151.55	1,302.36	1,209.48	92.87	14.023		
13,500.00	7,480.00	7,714.10	7,411.30	98.46	37.67	88.91	6,756.00	-151.55	1,229.12	1,132.22	96.90	12.684		
13,600.00	7,480.00	7,715.94	7,413.15	100.01	37.67	89.06	6,756.04	-151.55	1,162.53	1,060.94	101.58	11.444		
13,700.00	7,480.00	7,717.78	7,414.99	101.59	37.67	89.20	6,756.07	-151.55	1,103.85	996.94	106.91	10.325		
13,800.00	7,480.00	7,719.62	7,416.83	103.20	37.68	89.32	6,756.11	-151.55	1,054.50	941.72	112.78	9.350		
13,900.00	7,480.00	7,721.46	7,418.66	104.82	37.68	89.44	6,756.14	-151.55	1,015.90	896.89	119.01	8.536		
14,000.00	7,480.00	7,723.28	7,420.49	106.47	37.68	89.56	6,756.17	-151.55	989.35	864.09	125.26	7.898		
14,100.00	7,480.00	7,725.09	7,422.30	108.14	37.68	89.66	6,756.21	-151.55	975.88	844.74	131.14	7.441		
14,148.83	7,480.00	7,725.98	7,423.18	108.96	37.68	89.72	6,756.22	-151.55	974.24	840.49	133.75	7.284 CC		
14,192.60	7,480.00	7,726.76	7,423.97	109.70	37.68	89.76	6,756.24	-151.55	975.56	839.66	135.90	7.178 ES		
14,200.00	7,480.00	7,726.90	7,424.10	109.82	37.68	89.77	6,756.24	-151.55	976.03	839.79	136.24	7.164		
14,300.00	7,480.00	7,728.69	7,425.90	111.52	37.69	89.88	6,756.27	-151.55	987.85	847.56	140.29	7.042 SF		
14,400.00	7,480.00	7,730.49	7,427.70	113.22	37.69	89.98	6,756.31	-151.55	1,009.47	866.32	143.15	7.052		
14,500.00	7,480.00	7,732.30	7,429.50	114.93	37.69	90.09	6,756.34	-151.55	1,040.30	895.44	144.86	7.181		
14,598.91	7,480.00	7,734.09	7,431.29	116.63	37.69	90.19	6,756.38	-151.55	1,079.07	933.53	145.54	7.414		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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	
12,800.00	7,480.00	7,519.43	7,407.67	88.00	23.63	-89.01	6,109.25	-2,159.71	1,497.08	1,414.88	82.20	18.213	
12,900.00	7,480.00	7,520.02	7,408.26	89.48	23.63	-89.04	6,109.25	-2,159.72	1,437.25	1,350.91	86.34	16.647	
13,000.00	7,480.00	7,520.61	7,408.84	90.96	23.63	-89.07	6,109.26	-2,159.72	1,382.06	1,291.33	90.73	15.232	
13,100.00	7,480.00	7,521.20	7,409.43	92.45	23.63	-89.09	6,109.26	-2,159.73	1,332.11	1,236.77	95.34	13.973	
13,200.00	7,480.00	7,521.79	7,410.02	93.94	23.63	-89.12	6,109.27	-2,159.74	1,288.00	1,187.93	100.07	12.871	
13,300.00	7,480.00	7,522.37	7,410.61	95.43	23.63	-89.15	6,109.27	-2,159.75	1,250.34	1,145.51	104.83	11.928	
13,339.08	7,480.00	7,522.61	7,410.84	96.01	23.63	-89.16	6,109.27	-2,159.75	1,237.51	1,130.85	106.66	11.602	
13,400.00	7,480.00	7,522.97	7,411.21	96.93	23.64	-89.18	6,109.27	-2,159.75	1,219.12	1,109.65	109.47	11.136	
13,500.00	7,480.00	7,523.61	7,411.85	98.46	23.64	-89.20	6,109.28	-2,159.76	1,192.32	1,078.46	113.87	10.471	
13,600.00	7,480.00	7,524.29	7,412.53	100.01	23.64	-89.23	6,109.28	-2,159.77	1,170.02	1,052.13	117.88	9.925	
13,700.00	7,480.00	7,525.02	7,413.26	101.59	23.64	-89.26	6,109.29	-2,159.78	1,152.49	1,031.08	121.41	9.492	
13,800.00	7,480.00	7,525.79	7,414.02	103.20	23.64	-89.29	6,109.29	-2,159.79	1,140.00	1,015.64	124.35	9.167	
13,900.00	7,480.00	7,526.60	7,414.83	104.82	23.64	-89.33	6,109.29	-2,159.80	1,132.70	1,006.10	126.61	8.947	
13,986.97	7,480.00	7,527.33	7,415.57	106.25	23.64	-89.37	6,109.30	-2,159.81	1,130.68	1,002.73	127.96	8.836 CC	
14,000.00	7,480.00	7,527.44	7,415.68	106.47	23.64	-89.38	6,109.30	-2,159.81	1,130.73	1,002.62	128.11	8.826 ES	
14,100.00	7,480.00	7,528.33	7,416.57	108.14	23.64	-89.42	6,109.31	-2,159.82	1,134.10	1,005.28	128.82	8.804 SF	
14,192.60	7,480.00	7,529.19	7,417.42	109.70	23.64	-89.47	6,109.31	-2,159.83	1,141.94	1,013.17	128.77	8.868	
14,200.00	7,480.00	7,529.26	7,417.49	109.82	23.64	-89.47	6,109.31	-2,159.83	1,142.77	1,014.03	128.74	8.877	
14,300.00	7,480.00	7,530.20	7,418.43	111.52	23.65	-89.52	6,109.32	-2,159.84	1,158.56	1,030.68	127.88	9.060	
14,400.00	7,480.00	7,531.14	7,419.38	113.22	23.65	-89.56	6,109.32	-2,159.86	1,182.63	1,056.30	126.33	9.361	
14,500.00	7,480.00	7,532.08	7,420.32	114.93	23.65	-89.61	6,109.33	-2,159.87	1,214.48	1,090.29	124.19	9.779	
14,598.91	7,480.00	7,533.02	7,421.25	116.63	23.65	-89.66	6,109.33	-2,159.88	1,253.06	1,131.42	121.64	10.302	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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	7,480.00	7,536.37	7,424.27	80.64	23.10	88.43	6,072.51	-812.94	1,425.15	1,369.81	55.34	25.754		
12,400.00	7,480.00	7,536.59	7,424.49	82.11	23.10	88.50	6,072.51	-812.94	1,325.94	1,270.15	55.79	23.766		
12,500.00	7,480.00	7,536.81	7,424.71	83.57	23.10	88.58	6,072.51	-812.94	1,226.86	1,170.53	56.33	21.780		
12,600.00	7,480.00	7,537.03	7,424.93	85.05	23.10	88.65	6,072.51	-812.94	1,127.94	1,070.96	56.98	19.796		
12,700.00	7,480.00	7,537.24	7,425.15	86.52	23.11	88.72	6,072.51	-812.93	1,029.23	971.46	57.77	17.816		
12,800.00	7,480.00	7,537.46	7,425.36	88.00	23.11	88.79	6,072.51	-812.93	930.80	872.04	58.76	15.841		
12,900.00	7,480.00	7,537.68	7,425.58	89.48	23.11	88.86	6,072.51	-812.93	832.74	772.71	60.02	13.873		
13,000.00	7,480.00	7,537.89	7,425.79	90.96	23.11	88.93	6,072.51	-812.93	735.20	673.52	61.68	11.919		
13,100.00	7,480.00	7,538.10	7,426.01	92.45	23.11	89.01	6,072.51	-812.93	638.43	574.50	63.92	9.987		
13,200.00	7,480.00	7,538.32	7,426.22	93.94	23.11	89.08	6,072.51	-812.92	542.82	475.74	67.08	8.092		
13,300.00	7,480.00	7,538.53	7,426.43	95.43	23.11	89.15	6,072.51	-812.92	449.14	377.43	71.70	6.264		
13,339.08	7,480.00	7,538.61	7,426.51	96.01	23.11	89.17	6,072.51	-812.92	413.33	339.22	74.11	5.577		
13,400.00	7,480.00	7,538.73	7,426.63	96.93	23.11	89.25	6,072.51	-812.92	359.19	280.27	78.92	4.551		
13,500.00	7,480.00	7,538.90	7,426.81	98.46	23.11	89.33	6,072.51	-812.92	278.34	187.33	91.01	3.058		
13,600.00	7,480.00	7,539.04	7,426.94	100.01	23.11	89.39	6,072.51	-812.92	217.37	108.60	108.76	1.999		
13,691.54	7,480.00	7,539.13	7,427.04	101.46	23.11	89.42	6,072.51	-812.92	195.70	74.50	121.20	1.615 CC		
13,700.00	7,480.00	7,539.14	7,427.04	101.59	23.11	89.43	6,072.51	-812.92	195.89	74.35	121.54	1.612 ES, SF		
13,800.00	7,480.00	7,539.21	7,427.11	103.20	23.11	89.44	6,072.51	-812.92	225.53	111.17	114.36	1.972		
13,900.00	7,480.00	7,539.24	7,427.14	104.82	23.11	89.43	6,072.51	-812.92	291.04	191.20	99.84	2.915		
14,000.00	7,480.00	7,539.23	7,427.13	106.47	23.11	89.40	6,072.51	-812.92	373.96	285.15	88.81	4.211		
14,100.00	7,480.00	7,539.19	7,427.09	108.14	23.11	89.34	6,072.51	-812.92	465.01	383.24	81.77	5.687		
14,192.60	7,480.00	7,539.12	7,427.02	109.70	23.11	89.24	6,072.51	-812.92	553.02	475.37	77.65	7.122		
14,200.00	7,480.00	7,539.11	7,427.02	109.82	23.11	89.24	6,072.51	-812.92	560.15	482.76	77.39	7.238		
14,300.00	7,480.00	7,539.02	7,426.93	111.52	23.11	89.20	6,072.51	-812.92	657.08	582.63	74.45	8.826		
14,400.00	7,480.00	7,538.93	7,426.84	113.22	23.11	89.17	6,072.51	-812.92	754.82	682.53	72.29	10.442		
14,500.00	7,480.00	7,538.84	7,426.75	114.93	23.11	89.13	6,072.51	-812.92	853.08	782.44	70.64	12.076		
14,598.91	7,480.00	7,538.75	7,426.66	116.63	23.11	89.10	6,072.51	-812.92	950.63	881.25	69.38	13.703		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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				
10,400.00	7,480.00	7,414.94	7,412.41	53.97	12.92	-89.16	4,182.36	-1,399.83	1,465.05	1,422.68	42.37	34.580				
10,500.00	7,480.00	7,415.48	7,412.95	55.29	12.92	-89.24	4,182.36	-1,399.82	1,368.74	1,326.27	42.48	32.225				
10,600.00	7,480.00	7,416.02	7,413.49	56.63	12.92	-89.32	4,182.36	-1,399.82	1,273.01	1,230.34	42.67	29.836				
10,700.00	7,480.00	7,416.57	7,414.04	57.98	12.92	-89.41	4,182.37	-1,399.82	1,177.98	1,135.00	42.98	27.409				
10,800.00	7,480.00	7,417.13	7,414.60	59.34	12.92	-89.49	4,182.37	-1,399.81	1,083.84	1,040.39	43.46	24.939				
10,900.00	7,480.00	7,417.70	7,415.17	60.71	12.92	-89.57	4,182.37	-1,399.81	990.86	946.67	44.19	22.424				
11,000.00	7,480.00	7,418.27	7,415.74	62.09	12.92	-89.66	4,182.38	-1,399.80	899.38	854.11	45.27	19.867				
11,100.00	7,480.00	7,418.86	7,416.33	63.47	12.93	-89.75	4,182.38	-1,399.80	809.92	763.06	46.86	17.284				
11,200.00	7,480.00	7,419.45	7,416.92	64.87	12.93	-89.84	4,182.38	-1,399.80	723.23	674.06	49.17	14.709				
11,300.00	7,480.00	7,420.05	7,417.52	66.27	12.93	-89.93	4,182.39	-1,399.79	640.42	587.95	52.48	12.204				
11,400.00	7,480.00	7,420.66	7,418.13	67.68	12.93	-90.02	4,182.39	-1,399.79	563.23	506.14	57.09	9.866				
11,500.00	7,480.00	7,421.27	7,418.74	69.10	12.93	-90.11	4,182.39	-1,399.78	494.28	431.02	63.26	7.814				
11,600.00	7,480.00	7,421.90	7,419.37	70.53	12.93	-90.21	4,182.40	-1,399.78	437.48	366.64	70.84	6.175				
11,700.00	7,480.00	7,422.53	7,420.00	71.96	12.93	-90.30	4,182.40	-1,399.77	398.08	319.25	78.83	5.050				
11,800.00	7,480.00	7,423.18	7,420.65	73.39	12.93	-90.40	4,182.41	-1,399.77	381.51	296.42	85.09	4.484				
11,814.60	7,480.00	7,423.27	7,420.74	73.60	12.93	-90.41	4,182.41	-1,399.77	381.23	295.52	85.71	4.448	CC, ES, SF			
11,900.00	7,480.00	7,423.83	7,421.30	74.83	12.93	-90.50	4,182.41	-1,399.76	390.68	303.09	87.58	4.461				
12,000.00	7,480.00	7,424.49	7,421.96	76.28	12.93	-90.60	4,182.42	-1,399.76	423.92	337.64	86.28	4.913				
12,100.00	7,480.00	7,425.17	7,422.64	77.73	12.94	-90.70	4,182.42	-1,399.75	476.22	393.43	82.78	5.752				
12,200.00	7,480.00	7,425.85	7,423.32	79.18	12.94	-90.80	4,182.42	-1,399.75	542.09	463.41	78.67	6.890				
12,300.00	7,480.00	7,426.54	7,424.01	80.64	12.94	-90.90	4,182.43	-1,399.74	617.20	542.41	74.79	8.253				
12,400.00	7,480.00	7,427.25	7,424.72	82.11	12.94	-91.01	4,182.43	-1,399.74	698.58	627.17	71.41	9.783				
12,500.00	7,480.00	7,427.96	7,425.43	83.57	12.94	-91.12	4,182.44	-1,399.73	784.27	715.69	68.58	11.436				
12,600.00	7,480.00	7,428.69	7,426.16	85.05	12.94	-91.23	4,182.44	-1,399.73	873.02	806.79	66.23	13.182				
12,700.00	7,480.00	7,429.43	7,426.90	86.52	12.94	-91.34	4,182.45	-1,399.72	963.96	899.69	64.27	14.998				
12,800.00	7,480.00	7,430.18	7,427.64	88.00	12.94	-91.45	4,182.45	-1,399.72	1,056.55	993.90	62.65	16.865				
12,900.00	7,480.00	7,430.94	7,428.41	89.48	12.95	-91.56	4,182.46	-1,399.71	1,150.38	1,089.10	61.28	18.772				
13,000.00	7,480.00	7,431.71	7,429.18	90.96	12.95	-91.68	4,182.46	-1,399.71	1,245.16	1,185.04	60.13	20.709				
13,100.00	7,480.00	7,432.50	7,429.97	92.45	12.95	-91.80	4,182.47	-1,399.70	1,340.71	1,281.57	59.14	22.669				
13,200.00	7,480.00	7,433.30	7,430.76	93.94	12.95	-91.92	4,182.47	-1,399.69	1,436.86	1,378.56	58.30	24.646				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	7,480.00	7,412.76	7,409.82	38.45	12.96	-88.74	2,807.69	-1,689.12	1,483.42	1,441.09	42.34	35.038	
9,200.00	7,480.00	7,414.49	7,411.55	39.49	12.96	-88.90	2,807.72	-1,689.09	1,394.11	1,351.67	42.44	32.851	
9,300.00	7,480.00	7,416.24	7,413.30	40.56	12.96	-89.05	2,807.75	-1,689.07	1,306.34	1,263.69	42.64	30.634	
9,400.00	7,480.00	7,418.00	7,415.06	41.66	12.96	-89.21	2,807.78	-1,689.04	1,220.45	1,177.45	43.00	28.384	
9,500.00	7,480.00	7,419.77	7,416.83	42.79	12.97	-89.36	2,807.81	-1,689.01	1,136.87	1,093.32	43.55	26.105	
9,600.00	7,480.00	7,421.57	7,418.62	43.95	12.97	-89.52	2,807.85	-1,688.98	1,056.14	1,011.77	44.37	23.803	
9,700.00	7,480.00	7,423.37	7,420.43	45.13	12.97	-89.68	2,807.88	-1,688.95	978.97	933.44	45.53	21.500	
9,800.00	7,480.00	7,425.20	7,422.25	46.34	12.98	-89.85	2,807.91	-1,688.92	906.27	859.15	47.13	19.231	
9,900.00	7,480.00	7,427.04	7,424.09	47.57	12.98	-90.01	2,807.95	-1,688.89	839.21	789.99	49.22	17.049	
10,000.00	7,480.00	7,428.89	7,425.95	48.82	12.98	-90.17	2,807.98	-1,688.86	779.24	727.37	51.87	15.023	
10,100.00	7,480.00	7,430.76	7,427.82	50.08	12.99	-90.34	2,808.02	-1,688.83	728.10	673.08	55.02	13.233	
10,200.00	7,480.00	7,432.65	7,429.71	51.36	12.99	-90.51	2,808.05	-1,688.80	687.79	629.26	58.53	11.751	
10,300.00	7,480.00	7,434.56	7,431.61	52.66	12.99	-90.67	2,808.09	-1,688.77	660.28	598.19	62.09	10.634	
10,400.00	7,480.00	7,436.48	7,433.53	53.97	13.00	-90.85	2,808.12	-1,688.74	647.21	581.89	65.32	9.908	
10,435.50	7,480.00	7,437.17	7,434.22	54.44	13.00	-90.91	2,808.14	-1,688.73	646.23	579.92	66.31	9.746 CC, ES	
10,500.00	7,480.00	7,438.42	7,435.47	55.29	13.00	-91.02	2,808.16	-1,688.71	649.44	581.61	67.84	9.574 SF	
10,600.00	7,480.00	7,440.38	7,437.43	56.63	13.00	-91.19	2,808.20	-1,688.68	666.83	597.40	69.43	9.604	
10,700.00	7,480.00	7,442.35	7,439.41	57.98	13.01	-91.37	2,808.24	-1,688.64	698.25	628.15	70.10	9.960	
10,800.00	7,480.00	7,444.35	7,441.40	59.34	13.01	-91.54	2,808.27	-1,688.61	741.91	671.88	70.02	10.595	
10,900.00	7,480.00	7,446.36	7,443.41	60.71	13.01	-91.72	2,808.31	-1,688.58	795.80	726.37	69.43	11.463	
11,000.00	7,480.00	7,448.39	7,445.44	62.09	13.02	-91.90	2,808.35	-1,688.55	857.99	789.47	68.52	12.521	
11,100.00	7,480.00	7,450.44	7,447.49	63.47	13.02	-92.08	2,808.39	-1,688.51	926.83	859.35	67.47	13.736	
11,200.00	7,480.00	7,452.51	7,449.56	64.87	13.02	-92.27	2,808.43	-1,688.48	1,000.93	934.54	66.39	15.077	
11,300.00	7,480.00	7,454.59	7,451.64	66.27	13.03	-92.45	2,808.48	-1,688.45	1,079.21	1,013.88	65.33	16.520	
11,400.00	7,480.00	7,456.70	7,453.75	67.68	13.03	-92.64	2,808.52	-1,688.41	1,160.82	1,096.50	64.33	18.046	
11,500.00	7,480.00	7,458.83	7,455.88	69.10	13.03	-92.83	2,808.56	-1,688.38	1,245.12	1,181.73	63.40	19.640	
11,600.00	7,480.00	7,460.97	7,458.02	70.53	13.04	-93.02	2,808.60	-1,688.34	1,331.59	1,269.05	62.55	21.289	
11,700.00	7,480.00	7,463.14	7,460.19	71.96	13.04	-93.21	2,808.65	-1,688.31	1,419.84	1,358.06	61.78	22.984	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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		
12,000.00	7,480.00	7,453.95	7,451.61	76.28	6.51	-99.46	5,770.73	-1,132.45	1,414.66	1,378.06	36.61	38.644		
12,100.00	7,480.00	7,452.32	7,449.97	77.73	6.51	-98.82	5,770.76	-1,132.46	1,315.22	1,278.66	36.56	35.972		
12,200.00	7,480.00	7,450.69	7,448.35	79.18	6.51	-98.18	5,770.79	-1,132.47	1,215.86	1,179.34	36.53	33.287		
12,300.00	7,480.00	7,449.07	7,446.73	80.64	6.51	-97.53	5,770.81	-1,132.48	1,116.62	1,080.11	36.51	30.587		
12,400.00	7,480.00	7,447.46	7,445.11	82.11	6.51	-96.89	5,770.84	-1,132.50	1,017.52	981.01	36.52	27.866		
12,500.00	7,480.00	7,445.85	7,443.51	83.57	6.51	-96.25	5,770.86	-1,132.51	918.62	882.04	36.58	25.114		
12,600.00	7,480.00	7,444.26	7,441.91	85.05	6.51	-95.61	5,770.89	-1,132.52	819.97	783.23	36.74	22.319		
12,700.00	7,480.00	7,442.66	7,440.32	86.52	6.50	-94.97	5,770.92	-1,132.53	721.70	684.63	37.07	19.467		
12,800.00	7,480.00	7,441.08	7,438.74	88.00	6.50	-94.34	5,770.94	-1,132.54	623.97	586.24	37.73	16.537		
12,900.00	7,480.00	7,439.51	7,437.16	89.48	6.50	-93.70	5,770.97	-1,132.56	527.09	488.08	39.02	13.509		
13,000.00	7,480.00	7,437.94	7,435.59	90.96	6.50	-93.07	5,770.99	-1,132.57	431.63	390.08	41.55	10.388		
13,100.00	7,480.00	7,436.37	7,434.03	92.45	6.50	-92.44	5,771.02	-1,132.58	338.80	292.11	46.69	7.256		
13,200.00	7,480.00	7,434.82	7,432.48	93.94	6.50	-91.81	5,771.04	-1,132.59	251.50	194.18	57.32	4.388		
13,300.00	7,480.00	7,433.27	7,430.93	95.43	6.50	-91.19	5,771.06	-1,132.61	178.10	99.92	78.17	2.278		
13,339.08	7,480.00	7,432.67	7,430.33	96.01	6.50	-90.94	5,771.07	-1,132.61	157.57	68.64	88.93	1.772		
13,400.00	7,480.00	7,431.72	7,429.38	96.93	6.49	-90.57	5,771.09	-1,132.62	141.41	39.33	102.08	1.385 Level 3		
13,411.27	7,480.00	7,431.55	7,429.21	97.10	6.49	-90.49	5,771.09	-1,132.62	140.98	37.80	103.18	1.366 Level 3, CC, ES, SF		
13,500.00	7,480.00	7,430.16	7,427.81	98.46	6.49	-89.93	5,771.11	-1,132.63	165.41	70.24	95.17	1.738		
13,600.00	7,480.00	7,428.56	7,426.22	100.01	6.49	-89.31	5,771.14	-1,132.65	231.78	155.99	75.78	3.058		
13,700.00	7,480.00	7,426.95	7,424.61	101.59	6.49	-88.75	5,771.16	-1,132.66	314.72	252.28	62.44	5.040		
13,800.00	7,480.00	7,425.31	7,422.97	103.20	6.49	-88.27	5,771.19	-1,132.68	404.09	349.93	54.17	7.460		
13,900.00	7,480.00	7,423.65	7,421.31	104.82	6.49	-87.88	5,771.22	-1,132.69	496.35	447.54	48.81	10.169		
14,000.00	7,480.00	7,421.97	7,419.63	106.47	6.49	-87.59	5,771.24	-1,132.71	590.06	544.88	45.18	13.060		
14,100.00	7,480.00	7,420.27	7,417.93	108.14	6.49	-87.37	5,771.27	-1,132.73	684.53	641.89	42.64	16.054		
14,192.60	7,480.00	7,418.68	7,416.34	109.70	6.48	-87.24	5,771.29	-1,132.74	772.37	731.42	40.95	18.862		
14,200.00	7,480.00	7,418.55	7,416.21	109.82	6.48	-87.21	5,771.29	-1,132.74	779.40	738.56	40.84	19.086		
14,300.00	7,480.00	7,416.81	7,414.48	111.52	6.48	-86.80	5,771.32	-1,132.76	875.01	835.37	39.64	22.076		
14,400.00	7,480.00	7,415.08	7,412.74	113.22	6.48	-86.39	5,771.35	-1,132.78	971.50	932.61	38.88	24.987		
14,500.00	7,480.00	7,413.34	7,411.00	114.93	6.48	-85.98	5,771.38	-1,132.80	1,068.63	1,030.21	38.41	27.818		
14,598.91	7,480.00	7,411.62	7,409.28	116.63	6.48	-85.57	5,771.40	-1,132.82	1,165.17	1,127.03	38.14	30.547		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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
9,300.00	7,480.00	7,500.20	7,435.08	40.56	19.80	89.67	2,675.46	-15.04	1,457.82	1,398.58	59.24	24.607	
9,400.00	7,480.00	7,500.63	7,435.50	41.66	19.80	89.69	2,675.47	-15.04	1,388.82	1,328.44	60.39	22.999	
9,500.00	7,480.00	7,501.05	7,435.93	42.79	19.81	89.72	2,675.47	-15.04	1,323.79	1,262.19	61.60	21.489	
9,600.00	7,480.00	7,501.48	7,436.36	43.95	19.81	89.74	2,675.47	-15.04	1,263.33	1,200.46	62.88	20.093	
9,700.00	7,480.00	7,501.90	7,436.78	45.13	19.81	89.77	2,675.47	-15.04	1,208.14	1,143.96	64.17	18.826	
9,800.00	7,480.00	7,502.33	7,437.21	46.34	19.81	89.79	2,675.47	-15.04	1,158.96	1,093.50	65.46	17.706	
9,900.00	7,480.00	7,502.75	7,437.63	47.57	19.81	89.81	2,675.48	-15.04	1,116.59	1,049.92	66.67	16.748	
10,000.00	7,480.00	7,503.18	7,438.05	48.82	19.81	89.84	2,675.48	-15.04	1,081.83	1,014.08	67.75	15.969	
10,100.00	7,480.00	7,503.60	7,438.48	50.08	19.81	89.86	2,675.48	-15.04	1,055.43	986.81	68.62	15.381	
10,200.00	7,480.00	7,504.02	7,438.90	51.36	19.81	89.88	2,675.48	-15.04	1,038.04	968.81	69.22	14.995	
10,300.00	7,480.00	7,504.44	7,439.32	52.66	19.81	89.91	2,675.48	-15.04	1,030.10	960.58	69.52	14.818	
10,332.08	7,480.00	7,504.58	7,439.45	53.08	19.81	89.91	2,675.48	-15.04	1,029.60	960.06	69.54	14.805 CC, ES, SF	
10,400.00	7,480.00	7,504.86	7,439.74	53.97	19.81	89.93	2,675.48	-15.04	1,031.84	962.36	69.48	14.851	
10,500.00	7,480.00	7,505.28	7,440.16	55.29	19.81	89.95	2,675.49	-15.03	1,043.21	974.08	69.13	15.091	
10,600.00	7,480.00	7,505.70	7,440.58	56.63	19.81	89.98	2,675.49	-15.03	1,063.89	995.39	68.50	15.531	
10,700.00	7,480.00	7,506.12	7,441.00	57.98	19.81	90.00	2,675.49	-15.03	1,093.36	1,025.66	67.70	16.150	
10,800.00	7,480.00	7,506.54	7,441.42	59.34	19.81	90.02	2,675.49	-15.03	1,130.94	1,064.18	66.76	16.939	
10,900.00	7,480.00	7,506.96	7,441.84	60.71	19.81	90.05	2,675.49	-15.03	1,175.84	1,110.11	65.74	17.887	
11,000.00	7,480.00	7,507.38	7,442.26	62.09	19.82	90.07	2,675.50	-15.03	1,227.27	1,162.59	64.68	18.976	
11,100.00	7,480.00	7,507.80	7,442.67	63.47	19.82	90.09	2,675.50	-15.03	1,284.44	1,220.82	63.62	20.190	
11,200.00	7,480.00	7,508.21	7,443.09	64.87	19.82	90.12	2,675.50	-15.03	1,346.61	1,284.02	62.59	21.515	
11,300.00	7,480.00	7,508.63	7,443.51	66.27	19.82	90.14	2,675.50	-15.03	1,413.13	1,351.52	61.61	22.936	
11,400.00	7,480.00	7,509.04	7,443.92	67.68	19.82	90.16	2,675.50	-15.03	1,483.41	1,422.72	60.70	24.440	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	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		
9,400.00	7,480.00	7,437.99	7,437.99	41.66	12.98	90.00	3,149.10	-572.32	1,471.03	1,423.45	47.58	30.914		
9,500.00	7,480.00	7,437.99	7,437.99	42.79	12.98	90.00	3,149.10	-572.32	1,376.50	1,328.31	48.19	28.563		
9,600.00	7,480.00	7,437.99	7,437.99	43.95	12.98	90.00	3,149.10	-572.32	1,282.80	1,233.90	48.91	26.229		
9,700.00	7,480.00	7,437.99	7,437.99	45.13	12.98	90.00	3,149.10	-572.32	1,190.13	1,140.37	49.75	23.920		
9,800.00	7,480.00	7,437.99	7,437.99	46.34	12.98	90.00	3,149.10	-572.32	1,098.74	1,047.97	50.76	21.644		
9,900.00	7,480.00	7,437.99	7,437.99	47.57	12.98	90.00	3,149.10	-572.32	1,008.98	957.00	51.98	19.412		
10,000.00	7,480.00	7,437.99	7,437.99	48.82	12.98	90.00	3,149.10	-572.32	921.34	867.90	53.44	17.239		
10,100.00	7,480.00	7,437.99	7,437.99	50.08	12.98	90.00	3,149.10	-572.32	836.48	781.26	55.22	15.149		
10,200.00	7,480.00	7,437.99	7,437.99	51.36	12.98	90.00	3,149.10	-572.32	755.32	697.97	57.36	13.169		
10,300.00	7,480.00	7,437.99	7,437.99	52.66	12.98	90.00	3,149.10	-572.32	679.22	619.31	59.90	11.339		
10,400.00	7,480.00	7,437.99	7,437.99	53.97	12.98	90.00	3,149.10	-572.32	610.05	547.22	62.83	9.709		
10,500.00	7,480.00	7,437.99	7,437.99	55.29	12.98	90.00	3,149.10	-572.32	550.43	484.45	65.98	8.342		
10,600.00	7,480.00	7,437.99	7,437.99	56.63	12.98	90.00	3,149.10	-572.32	503.79	434.86	68.93	7.309		
10,700.00	7,480.00	7,437.99	7,437.99	57.98	12.98	90.00	3,149.10	-572.32	473.94	402.98	70.96	6.679		
10,795.89	7,480.00	7,437.99	7,437.99	59.28	12.98	90.00	3,149.10	-572.32	464.14	392.80	71.34	6.506	CC, ES, SF	
10,800.00	7,480.00	7,437.99	7,437.99	59.34	12.98	90.00	3,149.10	-572.32	464.16	392.85	71.31	6.509		
10,900.00	7,480.00	7,437.99	7,437.99	60.71	12.98	90.00	3,149.10	-572.32	475.67	405.95	69.72	6.823		
11,000.00	7,480.00	7,437.99	7,437.99	62.09	12.98	90.00	3,149.10	-572.32	507.04	440.36	66.68	7.604		
11,100.00	7,480.00	7,437.99	7,437.99	63.47	12.98	90.00	3,149.10	-572.32	554.89	491.84	63.05	8.801		
11,200.00	7,480.00	7,437.99	7,437.99	64.87	12.98	90.00	3,149.10	-572.32	615.41	555.89	59.52	10.340		
11,300.00	7,480.00	7,437.99	7,437.99	66.27	12.98	90.00	3,149.10	-572.32	685.24	628.81	56.43	12.143		
11,400.00	7,480.00	7,437.99	7,437.99	67.68	12.98	90.00	3,149.10	-572.32	761.82	707.94	53.88	14.140		
11,500.00	7,480.00	7,437.99	7,437.99	69.10	12.98	90.00	3,149.10	-572.32	843.32	791.50	51.82	16.273		
11,600.00	7,480.00	7,437.99	7,437.99	70.53	12.98	90.00	3,149.10	-572.32	928.45	878.25	50.19	18.497		
11,700.00	7,480.00	7,437.99	7,437.99	71.96	12.98	90.00	3,149.10	-572.32	1,016.29	967.38	48.90	20.781		
11,800.00	7,480.00	7,437.99	7,437.99	73.39	12.98	90.00	3,149.10	-572.32	1,106.19	1,058.31	47.88	23.103		
11,900.00	7,480.00	7,437.99	7,437.99	74.83	12.98	90.00	3,149.10	-572.32	1,197.70	1,150.63	47.07	25.445		
12,000.00	7,480.00	7,437.99	7,437.99	76.28	12.98	90.00	3,149.10	-572.32	1,290.47	1,244.04	46.42	27.799		
12,100.00	7,480.00	7,437.99	7,437.99	77.73	12.98	90.00	3,149.10	-572.32	1,384.24	1,338.34	45.90	30.156		
12,200.00	7,480.00	7,437.99	7,437.99	79.18	12.98	90.00	3,149.10	-572.32	1,478.83	1,433.35	45.48	32.513		

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 4E-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 4E-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 #3	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		
12,900.00	7,480.00	7,403.99	7,403.99	89.48	12.92	-90.00	6,687.10	-1,287.50	1,454.88	1,410.83	44.05	33.027		
13,000.00	7,480.00	7,403.99	7,403.99	90.96	12.92	-90.00	6,687.10	-1,287.50	1,357.38	1,312.85	44.54	30.478		
13,100.00	7,480.00	7,403.99	7,403.99	92.45	12.92	-90.00	6,687.10	-1,287.50	1,260.28	1,215.09	45.19	27.888		
13,200.00	7,480.00	7,403.99	7,403.99	93.94	12.92	-90.00	6,687.10	-1,287.50	1,163.67	1,117.60	46.07	25.256		
13,300.00	7,480.00	7,403.99	7,403.99	95.43	12.92	-90.00	6,687.10	-1,287.50	1,067.69	1,020.42	47.27	22.587		
13,339.08	7,480.00	7,403.99	7,403.99	96.01	12.92	-90.00	6,687.10	-1,287.50	1,030.39	982.54	47.85	21.535		
13,400.00	7,480.00	7,403.99	7,403.99	96.93	12.92	-90.00	6,687.10	-1,287.50	972.31	923.45	48.86	19.899		
13,500.00	7,480.00	7,403.99	7,403.99	98.46	12.92	-90.00	6,687.10	-1,287.50	876.90	826.08	50.82	17.256		
13,600.00	7,480.00	7,403.99	7,403.99	100.01	12.92	-90.00	6,687.10	-1,287.50	781.45	728.26	53.20	14.689		
13,700.00	7,480.00	7,403.99	7,403.99	101.59	12.92	-90.00	6,687.10	-1,287.50	686.12	629.98	56.14	12.222		
13,800.00	7,480.00	7,403.99	7,403.99	103.20	12.92	-90.00	6,687.10	-1,287.50	591.09	531.26	59.83	9.879		
13,900.00	7,480.00	7,403.99	7,403.99	104.82	12.92	-90.00	6,687.10	-1,287.50	496.69	432.04	64.65	7.683		
14,000.00	7,480.00	7,403.99	7,403.99	106.47	12.92	-90.00	6,687.10	-1,287.50	403.50	332.26	71.24	5.664		
14,100.00	7,480.00	7,403.99	7,403.99	108.14	12.92	-90.00	6,687.10	-1,287.50	312.80	231.94	80.86	3.869		
14,192.60	7,480.00	7,403.99	7,403.99	109.70	12.92	-90.00	6,687.10	-1,287.50	233.69	139.23	94.45	2.474		
14,200.00	7,480.00	7,403.99	7,403.99	109.82	12.92	-90.00	6,687.10	-1,287.50	227.73	131.93	95.81	2.377		
14,300.00	7,480.00	7,403.99	7,403.99	111.52	12.92	-90.00	6,687.10	-1,287.50	159.58	42.07	117.51	1.358 Level 3		
14,381.98	7,480.00	7,403.99	7,403.99	112.92	12.92	-90.00	6,687.10	-1,287.50	136.91	12.53	124.38	1.101 Level 2, CC, ES, SF		
14,400.00	7,480.00	7,403.99	7,403.99	113.22	12.92	-90.00	6,687.10	-1,287.50	138.09	16.54	121.55	1.136 Level 2		
14,500.00	7,480.00	7,403.99	7,403.99	114.93	12.92	-90.00	6,687.10	-1,287.50	180.75	90.41	90.35	2.001		
14,598.91	7,480.00	7,403.99	7,403.99	116.63	12.92	-90.00	6,687.10	-1,287.50	256.52	189.68	66.83	3.838		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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		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)						
11,700.00	7,480.00	7,414.75	7,414.00	71.96	12.21	-88.74	5,447.26	-1,358.98	1,426.82	1,384.26	42.57	33.520		
11,800.00	7,480.00	7,415.13	7,414.38	73.39	12.21	-88.80	5,447.26	-1,358.99	1,330.35	1,287.37	42.98	30.952		
11,900.00	7,480.00	7,415.52	7,414.77	74.83	12.21	-88.86	5,447.26	-1,358.99	1,234.43	1,190.88	43.56	28.339		
12,000.00	7,480.00	7,415.90	7,415.15	76.28	12.21	-88.92	5,447.27	-1,358.99	1,139.22	1,094.86	44.36	25.681		
12,100.00	7,480.00	7,416.29	7,415.54	77.73	12.21	-88.98	5,447.27	-1,359.00	1,044.91	999.44	45.47	22.981		
12,200.00	7,480.00	7,416.67	7,415.92	79.18	12.21	-89.04	5,447.27	-1,359.00	951.76	904.76	47.00	20.250		
12,300.00	7,480.00	7,417.06	7,416.30	80.64	12.21	-89.10	5,447.27	-1,359.00	860.14	811.03	49.11	17.514		
12,400.00	7,480.00	7,417.44	7,416.69	82.11	12.21	-89.16	5,447.27	-1,359.00	770.61	718.59	52.02	14.813		
12,500.00	7,480.00	7,417.82	7,417.07	83.57	12.21	-89.22	5,447.27	-1,359.01	683.99	627.97	56.02	12.210		
12,600.00	7,480.00	7,418.21	7,417.46	85.05	12.21	-89.28	5,447.27	-1,359.01	601.54	540.09	61.45	9.789		
12,700.00	7,480.00	7,418.59	7,417.84	86.52	12.22	-89.34	5,447.28	-1,359.01	525.22	456.53	68.69	7.646		
12,800.00	7,480.00	7,418.98	7,418.23	88.00	12.22	-89.40	5,447.28	-1,359.02	458.10	380.19	77.90	5.880		
12,900.00	7,480.00	7,419.36	7,418.61	89.48	12.22	-89.46	5,447.28	-1,359.02	404.79	316.25	88.54	4.572		
13,000.00	7,480.00	7,419.75	7,418.99	90.96	12.22	-89.52	5,447.28	-1,359.02	371.29	272.77	98.52	3.769		
13,080.00	7,480.00	7,420.05	7,419.30	92.15	12.22	-89.57	5,447.28	-1,359.02	362.57	258.82	103.75	3.495 CC		
13,100.00	7,480.00	7,420.13	7,419.38	92.45	12.22	-89.59	5,447.28	-1,359.02	363.12	258.64	104.47	3.476 ES, SF		
13,200.00	7,480.00	7,420.51	7,419.76	93.94	12.22	-89.65	5,447.28	-1,359.03	381.91	277.44	104.47	3.656		
13,300.00	7,480.00	7,420.90	7,420.15	95.43	12.22	-89.71	5,447.29	-1,359.03	424.09	324.14	99.95	4.243		
13,339.08	7,480.00	7,421.05	7,420.30	96.01	12.22	-89.73	5,447.29	-1,359.03	445.62	348.04	97.58	4.567		
13,400.00	7,480.00	7,421.29	7,420.54	96.93	12.22	-89.77	5,447.29	-1,359.03	483.10	389.46	93.64	5.159		
13,500.00	7,480.00	7,421.70	7,420.95	98.46	12.22	-89.84	5,447.29	-1,359.04	551.84	464.66	87.18	6.330		
13,600.00	7,480.00	7,422.14	7,421.39	100.01	12.22	-89.91	5,447.29	-1,359.04	626.90	545.66	81.25	7.716		
13,700.00	7,480.00	7,422.60	7,421.85	101.59	12.22	-89.98	5,447.29	-1,359.04	706.20	630.19	76.02	9.290		
13,800.00	7,480.00	7,423.09	7,422.34	103.20	12.22	-90.04	5,447.29	-1,359.05	788.37	716.91	71.46	11.032		
13,900.00	7,480.00	7,423.60	7,422.85	104.82	12.22	-90.11	5,447.30	-1,359.05	872.52	805.02	67.51	12.925		
14,000.00	7,480.00	7,424.13	7,423.38	106.47	12.22	-90.16	5,447.30	-1,359.05	958.04	893.98	64.06	14.955		
14,100.00	7,480.00	7,424.69	7,423.93	108.14	12.22	-90.21	5,447.30	-1,359.06	1,044.50	983.45	61.05	17.110		
14,192.60	7,480.00	7,425.22	7,424.47	109.70	12.22	-90.26	5,447.30	-1,359.06	1,125.13	1,066.54	58.59	19.205		
14,200.00	7,480.00	7,425.26	7,424.51	109.82	12.22	-90.26	5,447.30	-1,359.06	1,131.59	1,073.19	58.40	19.376		
14,300.00	7,480.00	7,425.85	7,425.10	111.52	12.22	-90.32	5,447.31	-1,359.07	1,220.00	1,163.85	56.15	21.726		
14,400.00	7,480.00	7,426.43	7,425.68	113.22	12.22	-90.38	5,447.31	-1,359.07	1,310.08	1,255.79	54.29	24.129		
14,500.00	7,480.00	7,427.02	7,426.27	114.93	12.22	-90.45	5,447.31	-1,359.07	1,401.51	1,348.76	52.75	26.568		
14,598.91	7,480.00	7,427.60	7,426.85	116.63	12.23	-90.51	5,447.31	-1,359.08	1,493.02	1,441.53	51.49	28.999		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Grant Brothers 44-23C - EXTRACTION - GYRO												Offset Site Error:	0.00 usft
Survey Program: 100-VESSI_GYROFLEX, 7741-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
11,800.00	7,480.00	7,454.72	7,454.13	73.39	12.36	90.27	5,299.93	-120.60	1,450.42	1,381.11	69.31	20.928	
11,900.00	7,480.00	7,454.37	7,453.78	74.83	12.35	90.25	5,299.93	-120.60	1,372.17	1,300.26	71.92	19.080	
12,000.00	7,480.00	7,454.02	7,453.43	76.28	12.35	90.22	5,299.93	-120.60	1,296.92	1,222.15	74.77	17.346	
12,100.00	7,480.00	7,453.67	7,453.08	77.73	12.35	90.20	5,299.93	-120.60	1,225.21	1,147.35	77.86	15.735	
12,200.00	7,480.00	7,453.32	7,452.73	79.18	12.35	90.18	5,299.94	-120.60	1,157.71	1,076.53	81.18	14.261	
12,300.00	7,480.00	7,452.97	7,452.38	80.64	12.35	90.16	5,299.94	-120.60	1,095.18	1,010.52	84.67	12.935	
12,400.00	7,480.00	7,452.63	7,452.03	82.11	12.35	90.13	5,299.94	-120.60	1,038.54	950.29	88.25	11.768	
12,500.00	7,480.00	7,452.28	7,451.68	83.57	12.35	90.11	5,299.94	-120.60	988.79	897.00	91.79	10.772	
12,600.00	7,480.00	7,451.93	7,451.33	85.05	12.35	90.09	5,299.94	-120.60	947.02	851.89	95.13	9.955	
12,700.00	7,480.00	7,451.58	7,450.99	86.52	12.35	90.06	5,299.94	-120.60	914.33	816.29	98.03	9.327	
12,800.00	7,480.00	7,451.23	7,450.64	88.00	12.35	90.04	5,299.94	-120.60	891.70	791.43	100.28	8.893	
12,900.00	7,480.00	7,450.88	7,450.29	89.48	12.35	90.02	5,299.94	-120.60	879.93	778.28	101.65	8.657	
12,954.30	7,480.00	7,450.69	7,450.10	90.28	12.35	90.01	5,299.94	-120.60	878.25	776.27	101.98	8.612	CC, ES, SF
13,000.00	7,480.00	7,450.53	7,449.94	90.96	12.35	90.00	5,299.95	-120.60	879.44	777.42	102.02	8.620	
13,100.00	7,480.00	7,450.18	7,449.59	92.45	12.35	89.97	5,299.95	-120.60	890.26	788.88	101.38	8.781	
13,200.00	7,480.00	7,449.83	7,449.24	93.94	12.35	89.95	5,299.95	-120.60	911.97	812.16	99.82	9.136	
13,300.00	7,480.00	7,449.49	7,448.89	95.43	12.35	89.93	5,299.95	-120.60	943.84	846.32	97.52	9.678	
13,339.08	7,480.00	7,449.35	7,448.76	96.01	12.35	89.92	5,299.95	-120.60	958.85	862.37	96.47	9.939	
13,400.00	7,480.00	7,449.14	7,448.54	96.93	12.35	89.90	5,299.95	-120.60	985.45	890.72	94.73	10.403	
13,500.00	7,480.00	7,448.79	7,448.20	98.46	12.35	89.88	5,299.95	-120.60	1,037.78	946.04	91.73	11.313	
13,600.00	7,480.00	7,448.44	7,447.85	100.01	12.35	89.85	5,299.95	-120.60	1,099.45	1,010.70	88.75	12.388	
13,700.00	7,480.00	7,448.10	7,447.50	101.59	12.35	89.82	5,299.95	-120.60	1,168.92	1,082.98	85.94	13.602	
13,800.00	7,480.00	7,447.75	7,447.16	103.20	12.35	89.79	5,299.95	-120.60	1,244.80	1,161.42	83.39	14.928	
13,900.00	7,480.00	7,447.41	7,446.82	104.82	12.35	89.75	5,299.96	-120.60	1,325.92	1,244.79	81.13	16.342	
14,000.00	7,480.00	7,447.07	7,446.48	106.47	12.35	89.71	5,299.96	-120.60	1,411.27	1,332.09	79.19	17.822	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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
0.00	0.00	0.00	0.00	0.00	0.00	-89.50	12.96	-1,485.18	1,486.07				
100.00	100.00	50.00	50.00	0.14	0.09	-89.50	12.96	-1,485.18	1,485.23	1,485.00	0.23	6,519.103	
200.00	200.00	150.00	150.00	0.50	0.27	-89.50	12.96	-1,485.18	1,485.23	1,484.47	0.77	1,940.133	
300.00	300.00	250.00	250.00	0.85	0.45	-89.50	12.96	-1,485.18	1,485.23	1,483.93	1.30	1,139.651	
400.00	400.00	350.00	350.00	1.21	0.63	-89.50	12.96	-1,485.18	1,485.23	1,483.39	1.84	806.780	
500.00	500.00	450.00	450.00	1.57	0.81	-89.50	12.96	-1,485.18	1,485.23	1,482.85	2.38	624.403	
600.00	600.00	550.00	550.00	1.93	0.99	-89.50	12.96	-1,485.18	1,485.23	1,482.32	2.92	509.279	
700.00	699.98	649.98	649.98	2.28	1.17	21.13	12.96	-1,485.18	1,483.60	1,480.16	3.44	430.930	
800.00	799.84	749.84	749.84	2.62	1.34	21.24	12.96	-1,485.18	1,478.72	1,474.76	3.96	372.996	
900.00	899.45	849.45	849.45	2.97	1.52	21.42	12.96	-1,485.18	1,470.60	1,466.11	4.49	327.395	
1,000.00	998.70	948.70	948.70	3.34	1.70	21.68	12.96	-1,485.18	1,459.25	1,454.23	5.02	290.457	
1,102.07	1,099.50	1,049.50	1,049.50	3.73	1.88	22.02	12.96	-1,485.18	1,444.38	1,438.80	5.57	259.219	
1,200.00	1,195.93	1,145.93	1,145.93	4.12	2.05	22.28	12.96	-1,485.18	1,428.53	1,422.43	6.10	234.198	
1,300.00	1,294.40	1,244.40	1,244.40	4.52	2.23	22.55	12.96	-1,485.18	1,412.37	1,405.73	6.64	212.713	
1,400.00	1,392.87	1,342.87	1,342.87	4.94	2.41	22.82	12.96	-1,485.18	1,396.25	1,389.06	7.18	194.350	
1,500.00	1,491.34	1,441.34	1,441.34	5.36	2.58	23.10	12.96	-1,485.18	1,380.16	1,372.42	7.73	178.497	
1,600.00	1,589.81	1,539.81	1,539.81	5.78	2.76	23.39	12.96	-1,485.18	1,364.10	1,355.81	8.28	164.689	
1,700.00	1,688.27	1,638.27	1,638.27	6.21	2.94	23.68	12.96	-1,485.18	1,348.07	1,339.24	8.84	152.562	
1,800.00	1,786.74	1,736.74	1,736.74	6.64	3.11	23.98	12.96	-1,485.18	1,332.08	1,322.69	9.39	141.836	
1,900.00	1,885.21	1,835.21	1,835.21	7.07	3.29	24.29	12.96	-1,485.18	1,316.13	1,306.18	9.95	132.284	
2,000.00	1,983.68	1,933.68	1,933.68	7.51	3.47	24.61	12.96	-1,485.18	1,300.22	1,289.71	10.51	123.729	
2,100.00	2,082.15	2,032.15	2,032.15	7.95	3.64	24.93	12.96	-1,485.18	1,284.34	1,273.27	11.07	116.024	
2,200.00	2,180.62	2,130.62	2,130.62	8.38	3.82	25.26	12.96	-1,485.18	1,268.51	1,256.88	11.63	109.051	
2,300.00	2,279.08	2,229.08	2,229.08	8.82	4.00	25.60	12.96	-1,485.18	1,252.72	1,240.52	12.20	102.713	
2,400.00	2,377.55	2,327.55	2,327.55	9.26	4.17	25.95	12.96	-1,485.18	1,236.97	1,224.21	12.76	96.927	
2,500.00	2,476.02	2,426.02	2,426.02	9.70	4.35	26.30	12.96	-1,485.18	1,221.27	1,207.94	13.33	91.625	
2,600.00	2,574.49	2,524.49	2,524.49	10.14	4.52	26.67	12.96	-1,485.18	1,205.62	1,191.72	13.90	86.751	
2,700.00	2,672.96	2,622.96	2,622.96	10.59	4.70	27.04	12.96	-1,485.18	1,190.01	1,175.55	14.47	82.256	
2,800.00	2,771.43	2,721.43	2,721.43	11.03	4.88	27.43	12.96	-1,485.18	1,174.46	1,159.42	15.04	78.097	
2,900.00	2,869.89	2,819.89	2,819.89	11.47	5.05	27.83	12.96	-1,485.18	1,158.96	1,143.35	15.61	74.239	
3,000.00	2,968.36	2,918.36	2,918.36	11.91	5.23	28.23	12.96	-1,485.18	1,143.52	1,127.33	16.19	70.651	
3,100.00	3,066.83	3,016.83	3,016.83	12.36	5.41	28.65	12.96	-1,485.18	1,128.13	1,111.37	16.76	67.307	
3,200.00	3,165.30	3,115.30	3,115.30	12.80	5.58	29.08	12.96	-1,485.18	1,112.81	1,095.47	17.34	64.182	
3,300.00	3,263.77	3,213.77	3,213.77	13.25	5.76	29.52	12.96	-1,485.18	1,097.55	1,079.63	17.92	61.257	
3,400.00	3,362.23	3,312.23	3,312.23	13.69	5.94	29.97	12.96	-1,485.18	1,082.35	1,063.86	18.50	58.514	
3,500.00	3,460.70	3,410.70	3,410.70	14.14	6.11	30.44	12.96	-1,485.18	1,067.23	1,048.15	19.08	55.936	
3,600.00	3,559.17	3,509.17	3,509.17	14.58	6.29	30.92	12.96	-1,485.18	1,052.17	1,032.51	19.66	53.509	
3,700.00	3,657.64	3,607.64	3,607.64	15.03	6.47	31.41	12.96	-1,485.18	1,037.19	1,016.94	20.25	51.222	
3,800.00	3,756.11	3,706.11	3,706.11	15.47	6.64	31.92	12.96	-1,485.18	1,022.29	1,001.45	20.84	49.062	
3,900.00	3,854.58	3,804.58	3,804.58	15.92	6.82	32.44	12.96	-1,485.18	1,007.47	986.04	21.43	47.021	
4,000.00	3,953.04	3,903.04	3,903.04	16.36	7.00	32.98	12.96	-1,485.18	992.73	970.71	22.02	45.088	
4,100.00	4,051.51	4,001.51	4,001.51	16.81	7.17	33.53	12.96	-1,485.18	978.08	955.47	22.61	43.257	
4,200.00	4,149.98	4,099.98	4,099.98	17.26	7.35	34.10	12.96	-1,485.18	963.53	940.32	23.21	41.519	
4,300.00	4,248.45	4,198.45	4,198.45	17.70	7.53	34.69	12.96	-1,485.18	949.07	925.26	23.80	39.868	
4,400.00	4,346.92	4,296.92	4,296.92	18.15	7.70	35.29	12.96	-1,485.18	934.71	910.31	24.41	31.501	
4,500.00	4,445.38	4,395.38	4,395.38	18.60	7.88	35.92	12.96	-1,485.18	920.46	895.45	25.01	36.806	
4,600.00	4,543.85	4,493.85	4,493.85	19.04	8.05	36.56	12.96	-1,485.18	906.32	880.71	25.61	35.384	
4,700.00	4,642.32	4,592.32	4,592.32	19.49	8.23	37.22	12.96	-1,485.18	892.30	866.08	26.22	34.028	
4,800.00	4,740.79	4,690.79	4,690.79	19.94	8.41	37.91	12.96	-1,485.18	878.40	851.57	26.83	32.735	
4,900.00	4,839.26	4,789.26	4,789.26	20.38	8.58	38.61	12.96	-1,485.18	864.63	837.18	27.45	31.501	
5,000.00	4,937.73	4,887.73	4,887.73	20.83	8.76	39.34	12.96	-1,485.18	850.99	822.93	28.06	30.322	
5,100.00	5,036.19	4,986.19	4,986.19	21.28	8.94	40.09	12.96	-1,485.18	837.49	808.81	28.69	29.196	

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 4E-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 4E-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 #3	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						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	5,134.66	5,084.66	5,084.66	21.73	9.11	40.87	12.96	-1,485.18	824.15	794.84	29.31	28.120		
5,300.00	5,233.13	5,085.00	5,085.00	22.17	9.11	40.87	12.96	-1,485.18	816.87	787.07	29.80	27.414		
5,309.71	5,242.70	5,085.00	5,085.00	22.22	9.11	40.87	12.96	-1,485.18	816.81	786.99	29.82	27.390	CC, ES, SF	
5,400.00	5,331.60	5,085.00	5,085.00	22.62	9.11	40.87	12.96	-1,485.18	821.79	791.93	29.86	27.523		
5,500.00	5,430.07	5,085.00	5,085.00	23.07	9.11	40.87	12.96	-1,485.18	838.68	809.18	29.51	28.424		
5,600.00	5,528.54	5,085.00	5,085.00	23.52	9.11	40.87	12.96	-1,485.18	866.86	838.06	28.80	30.096		
5,700.00	5,627.00	5,085.00	5,085.00	23.96	9.11	40.87	12.96	-1,485.18	905.26	877.42	27.84	32.515		
5,800.00	5,725.47	5,085.00	5,085.00	24.41	9.11	40.87	12.96	-1,485.18	952.66	925.94	26.72	35.656		
5,900.00	5,823.94	5,085.00	5,085.00	24.86	9.11	40.87	12.96	-1,485.18	1,007.78	982.26	25.52	39.490		
6,000.00	5,922.41	5,085.00	5,085.00	25.31	9.11	40.87	12.96	-1,485.18	1,069.43	1,045.12	24.31	43.988		
6,100.00	6,020.88	5,085.00	5,085.00	25.75	9.11	40.87	12.96	-1,485.18	1,136.54	1,113.40	23.14	49.118		
6,200.00	6,119.34	5,085.00	5,085.00	26.20	9.11	40.87	12.96	-1,485.18	1,208.22	1,186.19	22.03	54.846		
6,300.00	6,217.81	5,085.00	5,085.00	26.65	9.11	40.87	12.96	-1,485.18	1,283.68	1,262.69	21.00	61.137		
6,400.00	6,316.28	5,085.00	5,085.00	27.10	9.11	40.87	12.96	-1,485.18	1,362.32	1,342.27	20.05	67.951		
6,500.00	6,414.75	5,085.00	5,085.00	27.54	9.11	40.87	12.96	-1,485.18	1,443.59	1,424.41	19.18	75.250		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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	
0.00	0.00	0.00	0.00	0.00	0.00	1.03	92.94	1.67	97.08				
100.00	100.00	71.99	71.99	0.14	0.13	1.03	92.94	1.67	92.96	92.69	0.26	352.297	
200.00	200.00	171.99	171.99	0.50	0.30	1.03	92.94	1.67	92.96	92.16	0.80	116.653	
300.00	300.00	271.99	271.99	0.85	0.47	1.03	92.94	1.67	92.96	91.63	1.33	69.899	
400.00	400.00	371.99	371.99	1.21	0.65	1.03	92.94	1.67	92.96	91.09	1.86	49.899	
500.00	500.00	471.99	471.99	1.57	0.82	1.03	92.94	1.67	92.96	90.56	2.40	38.798	
600.00	600.00	571.99	571.99	1.93	1.00	1.03	92.94	1.67	92.96	90.03	2.93	31.738 CC, ES	
700.00	699.98	671.97	671.97	2.28	1.17	112.60	92.94	1.67	93.61	90.16	3.45	27.127	
800.00	799.84	771.83	771.83	2.62	1.35	115.45	92.94	1.67	95.75	91.78	3.97	24.128	
900.00	899.45	871.44	871.44	2.97	1.52	119.89	92.94	1.67	99.81	95.32	4.49	22.210	
1,000.00	998.70	970.69	970.69	3.34	1.69	125.45	92.94	1.67	106.43	101.41	5.03	21.170	
1,102.07	1,099.50	1,071.49	1,071.49	3.73	1.87	131.68	92.94	1.67	116.50	110.92	5.58	20.881 SF	
1,200.00	1,195.93	1,167.92	1,167.92	4.12	2.04	137.33	92.94	1.67	128.58	122.47	6.11	21.045	
1,300.00	1,294.40	1,266.39	1,266.39	4.52	2.21	142.08	92.94	1.67	141.98	135.33	6.65	21.356	
1,400.00	1,392.87	1,364.86	1,364.86	4.94	2.38	146.00	92.94	1.67	156.17	148.99	7.19	21.736	
1,500.00	1,491.34	1,463.33	1,463.33	5.36	2.55	149.25	92.94	1.67	170.97	163.25	7.72	22.142	
1,600.00	1,589.81	1,561.80	1,561.80	5.78	2.73	151.99	92.94	1.67	186.22	177.96	8.26	22.552	
1,700.00	1,688.27	1,660.26	1,660.26	6.21	2.90	154.31	92.94	1.67	201.83	193.03	8.79	22.953	
1,800.00	1,786.74	1,758.73	1,758.73	6.64	3.07	156.29	92.94	1.67	217.71	208.38	9.33	23.336	
1,900.00	1,885.21	1,857.20	1,857.20	7.07	3.24	158.01	92.94	1.67	233.82	223.95	9.87	23.700	
2,000.00	1,983.68	1,955.67	1,955.67	7.51	3.41	159.50	92.94	1.67	250.10	239.70	10.40	24.042	
2,100.00	2,082.15	2,054.14	2,054.14	7.95	3.59	160.81	92.94	1.67	266.53	255.59	10.94	24.363	
2,200.00	2,180.62	2,152.61	2,152.61	8.38	3.76	161.97	92.94	1.67	283.08	271.61	11.48	24.664	
2,300.00	2,279.08	2,251.07	2,251.07	8.82	3.93	163.00	92.94	1.67	299.73	287.72	12.02	24.945	
2,400.00	2,377.55	2,349.54	2,349.54	9.26	4.10	163.92	92.94	1.67	316.47	303.92	12.55	25.208	
2,500.00	2,476.02	2,448.01	2,448.01	9.70	4.27	164.75	92.94	1.67	333.28	320.18	13.09	25.453	
2,600.00	2,574.49	2,546.48	2,546.48	10.14	4.44	165.50	92.94	1.67	350.15	336.51	13.63	25.684	
2,700.00	2,672.96	2,644.95	2,644.95	10.59	4.62	166.18	92.94	1.67	367.07	352.90	14.17	25.899	
2,800.00	2,771.43	2,743.42	2,743.42	11.03	4.79	166.80	92.94	1.67	384.04	369.32	14.71	26.102	
2,900.00	2,869.89	2,841.88	2,841.88	11.47	4.96	167.37	92.94	1.67	401.04	385.79	15.25	26.292	
3,000.00	2,968.36	2,940.35	2,940.35	11.91	5.13	167.89	92.94	1.67	418.09	402.29	15.79	26.471	
3,100.00	3,066.83	3,038.82	3,038.82	12.36	5.30	168.37	92.94	1.67	435.16	418.83	16.34	26.639	
3,200.00	3,165.30	3,137.29	3,137.29	12.80	5.48	168.82	92.94	1.67	452.26	435.39	16.88	26.798	
3,300.00	3,263.77	3,235.76	3,235.76	13.25	5.65	169.23	92.94	1.67	469.39	451.97	17.42	26.948	
3,400.00	3,362.23	3,334.22	3,334.22	13.69	5.82	169.61	92.94	1.67	486.54	468.58	17.96	27.090	
3,500.00	3,460.70	3,432.69	3,432.69	14.14	5.99	169.97	92.94	1.67	503.71	485.20	18.50	27.224	
3,600.00	3,559.17	3,531.16	3,531.16	14.58	6.16	170.31	92.94	1.67	520.89	501.85	19.04	27.352	
3,700.00	3,657.64	3,629.63	3,629.63	15.03	6.33	170.62	92.94	1.67	538.09	518.51	19.59	27.472	
3,800.00	3,756.11	3,728.10	3,728.10	15.47	6.51	170.91	92.94	1.67	555.31	535.18	20.13	27.587	
3,900.00	3,854.58	3,826.57	3,826.57	15.92	6.68	171.19	92.94	1.67	572.54	551.87	20.67	27.697	
4,000.00	3,953.04	3,925.03	3,925.03	16.36	6.85	171.45	92.94	1.67	589.78	568.57	21.21	27.801	
4,100.00	4,051.51	4,023.50	4,023.50	16.81	7.02	171.69	92.94	1.67	607.04	585.28	21.76	27.900	
4,200.00	4,149.98	4,121.97	4,121.97	17.26	7.19	171.92	92.94	1.67	624.30	602.00	22.30	27.994	
4,300.00	4,248.45	4,220.44	4,220.44	17.70	7.37	172.14	92.94	1.67	641.57	618.73	22.84	28.085	
4,400.00	4,346.92	4,318.91	4,318.91	18.15	7.54	172.35	92.94	1.67	658.85	635.47	23.39	28.171	
4,500.00	4,445.38	4,417.37	4,417.37	18.60	7.71	172.54	92.94	1.67	676.14	652.21	23.93	28.254	
4,600.00	4,543.85	4,515.84	4,515.84	19.04	7.88	172.73	92.94	1.67	693.44	668.96	24.47	28.333	
4,700.00	4,642.32	4,614.31	4,614.31	19.49	8.05	172.91	92.94	1.67	710.74	685.72	25.02	28.409	
4,800.00	4,740.79	4,712.78	4,712.78	19.94	8.23	173.08	92.94	1.67	728.05	702.49	25.56	28.482	
4,900.00	4,839.26	4,811.25	4,811.25	20.38	8.40	173.24	92.94	1.67	745.37	719.26	26.11	28.552	
5,000.00	4,937.73	4,909.72	4,909.72	20.83	8.57	173.39	92.94	1.67	762.69	736.04	26.65	28.619	
5,100.00	5,036.19	5,008.18	5,008.18	21.28	8.74	173.54	92.94	1.67	780.01	752.82	27.19	28.683	

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 4E-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 4E-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 #3	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	5,134.66	5,106.65	5,106.65	21.73	8.91	173.68	92.94	1.67	797.35	769.61	27.74	28.746	
5,300.00	5,233.13	5,119.99	5,119.99	22.17	8.94	173.70	92.94	1.67	819.12	791.41	27.70	29.567	
5,400.00	5,331.60	5,119.99	5,119.99	22.62	8.94	173.70	92.94	1.67	852.04	824.75	27.29	31.224	
5,500.00	5,430.07	5,119.99	5,119.99	23.07	8.94	173.70	92.94	1.67	894.98	868.33	26.64	33.593	
5,600.00	5,528.54	5,119.99	5,119.99	23.52	8.94	173.70	92.94	1.67	946.57	920.72	25.85	36.616	
5,700.00	5,627.00	5,119.99	5,119.99	23.96	8.94	173.70	92.94	1.67	1,005.49	980.50	24.99	40.235	
5,800.00	5,725.47	5,119.99	5,119.99	24.41	8.94	173.70	92.94	1.67	1,070.53	1,046.41	24.11	44.394	
5,900.00	5,823.94	5,119.99	5,119.99	24.86	8.94	173.70	92.94	1.67	1,140.63	1,117.37	23.26	49.041	
6,000.00	5,922.41	5,119.99	5,119.99	25.31	8.94	173.70	92.94	1.67	1,214.93	1,192.48	22.45	54.126	
6,100.00	6,020.88	5,119.99	5,119.99	25.75	8.94	173.70	92.94	1.67	1,292.70	1,271.01	21.69	59.602	
6,200.00	6,119.34	5,119.99	5,119.99	26.20	8.94	173.70	92.94	1.67	1,373.35	1,352.36	20.99	65.426	
6,300.00	6,217.81	5,119.99	5,119.99	26.65	8.94	173.70	92.94	1.67	1,456.40	1,436.05	20.35	71.555	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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		
7,750.00	7,440.99	7,424.99	7,424.99	30.83	8.33	57.89	1,439.81	-464.94	1,460.94	1,422.41	38.53	37.914		
7,800.00	7,455.51	7,439.51	7,439.51	30.85	8.35	63.60	1,439.81	-464.94	1,418.44	1,379.78	38.67	36.684		
7,850.00	7,466.72	7,450.72	7,450.72	30.88	8.36	70.03	1,439.81	-464.94	1,375.24	1,336.44	38.80	35.444		
7,900.00	7,474.54	7,458.54	7,458.54	30.91	8.37	77.02	1,439.81	-464.94	1,331.57	1,292.64	38.93	34.200		
7,950.00	7,478.95	7,462.95	7,462.95	30.95	8.37	84.30	1,439.81	-464.94	1,287.66	1,248.59	39.07	32.957		
7,989.08	7,480.00	7,464.00	7,464.00	31.00	8.37	90.00	1,439.81	-464.94	1,253.33	1,214.15	39.18	31.989		
8,000.00	7,480.00	7,464.00	7,464.00	31.02	8.37	90.00	1,439.81	-464.94	1,243.77	1,204.56	39.21	31.719		
8,100.00	7,480.00	7,464.00	7,464.00	31.22	8.37	90.00	1,439.81	-464.94	1,157.24	1,117.72	39.53	29.278		
8,200.00	7,480.00	7,464.00	7,464.00	31.54	8.37	90.00	1,439.81	-464.94	1,073.06	1,033.16	39.90	26.892		
8,300.00	7,480.00	7,464.00	7,464.00	31.98	8.37	90.00	1,439.81	-464.94	991.82	951.47	40.36	24.576		
8,400.00	7,480.00	7,464.00	7,464.00	32.54	8.37	90.00	1,439.81	-464.94	914.31	873.41	40.90	22.354		
8,500.00	7,480.00	7,464.00	7,464.00	33.19	8.37	90.00	1,439.81	-464.94	841.56	800.01	41.54	20.258		
8,600.00	7,480.00	7,464.00	7,464.00	33.93	8.37	90.00	1,439.81	-464.94	774.90	732.62	42.28	18.326		
8,700.00	7,480.00	7,464.00	7,464.00	34.73	8.37	90.00	1,439.81	-464.94	716.04	672.94	43.10	16.614		
8,800.00	7,480.00	7,464.00	7,464.00	35.58	8.37	90.00	1,439.81	-464.94	667.06	623.13	43.94	15.182		
8,900.00	7,480.00	7,464.00	7,464.00	36.49	8.37	90.00	1,439.81	-464.94	630.26	585.57	44.69	14.103		
9,000.00	7,480.00	7,464.00	7,464.00	37.45	8.37	90.00	1,439.81	-464.94	607.84	562.63	45.22	13.442		
9,088.74	7,480.00	7,464.00	7,464.00	38.34	8.37	90.00	1,439.81	-464.94	601.33	555.93	45.41	13.243	CC, ES, SF	
9,100.00	7,480.00	7,464.00	7,464.00	38.45	8.37	90.00	1,439.81	-464.94	601.44	556.03	45.41	13.246		
9,200.00	7,480.00	7,464.00	7,464.00	39.49	8.37	90.00	1,439.81	-464.94	611.54	566.33	45.20	13.529		
9,300.00	7,480.00	7,464.00	7,464.00	40.56	8.37	90.00	1,439.81	-464.94	637.36	592.69	44.67	14.267		
9,400.00	7,480.00	7,464.00	7,464.00	41.66	8.37	90.00	1,439.81	-464.94	677.11	633.17	43.95	15.408		
9,500.00	7,480.00	7,464.00	7,464.00	42.79	8.37	90.00	1,439.81	-464.94	728.52	685.36	43.15	16.882		
9,600.00	7,480.00	7,464.00	7,464.00	43.95	8.37	90.00	1,439.81	-464.94	789.29	746.91	42.39	18.620		
9,700.00	7,480.00	7,464.00	7,464.00	45.13	8.37	90.00	1,439.81	-464.94	857.46	815.76	41.70	20.561		
9,800.00	7,480.00	7,464.00	7,464.00	46.34	8.37	90.00	1,439.81	-464.94	931.39	890.28	41.11	22.655		
9,900.00	7,480.00	7,464.00	7,464.00	47.57	8.37	90.00	1,439.81	-464.94	1,009.82	969.21	40.62	24.863		
10,000.00	7,480.00	7,464.00	7,464.00	48.82	8.37	90.00	1,439.81	-464.94	1,091.78	1,051.58	40.20	27.156		
10,100.00	7,480.00	7,464.00	7,464.00	50.08	8.37	90.00	1,439.81	-464.94	1,176.54	1,136.67	39.87	29.512		
10,200.00	7,480.00	7,464.00	7,464.00	51.36	8.37	90.00	1,439.81	-464.94	1,263.53	1,223.94	39.59	31.917		
10,300.00	7,480.00	7,464.00	7,464.00	52.66	8.37	90.00	1,439.81	-464.94	1,352.31	1,312.95	39.36	34.358		
10,400.00	7,480.00	7,464.00	7,464.00	53.97	8.37	90.00	1,439.81	-464.94	1,442.57	1,403.40	39.17	36.826		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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		
7,700.00	7,423.21	7,387.17	7,386.43	30.82	7.46	-46.51	1,409.58	-1,700.08	1,476.33	1,439.67	36.66	40.269		
7,750.00	7,440.99	7,403.98	7,403.25	30.83	7.46	-53.71	1,409.49	-1,699.99	1,433.05	1,396.44	36.62	39.136		
7,800.00	7,455.51	7,417.57	7,416.84	30.85	7.45	-61.52	1,409.42	-1,699.92	1,389.27	1,352.70	36.56	37.996		
7,850.00	7,466.72	7,428.03	7,427.30	30.88	7.45	-69.67	1,409.37	-1,699.86	1,345.24	1,308.74	36.50	36.858		
7,900.00	7,474.54	7,435.31	7,434.58	30.91	7.44	-77.74	1,409.34	-1,699.82	1,301.26	1,264.84	36.42	35.725		
7,950.00	7,478.95	7,439.34	7,438.61	30.95	7.44	-85.31	1,409.32	-1,699.80	1,257.62	1,221.27	36.34	34.603		
7,989.08	7,480.00	7,440.20	7,439.47	31.00	7.44	-90.68	1,409.32	-1,699.79	1,223.93	1,187.65	36.28	33.736		
8,000.00	7,480.00	7,440.16	7,439.43	31.02	7.44	-90.67	1,409.32	-1,699.79	1,214.60	1,178.33	36.26	33.496		
8,100.00	7,480.00	7,439.80	7,439.07	31.22	7.44	-90.64	1,409.32	-1,699.79	1,130.44	1,094.33	36.11	31.303		
8,200.00	7,480.00	7,439.43	7,438.70	31.54	7.44	-90.61	1,409.32	-1,699.80	1,049.08	1,013.06	36.01	29.131		
8,300.00	7,480.00	7,439.06	7,438.33	31.98	7.44	-90.57	1,409.32	-1,699.80	971.20	935.20	36.00	26.981		
8,400.00	7,480.00	7,438.68	7,437.95	32.54	7.44	-90.54	1,409.32	-1,699.80	897.71	861.59	36.11	24.858		
8,500.00	7,480.00	7,438.30	7,437.57	33.19	7.44	-90.51	1,409.32	-1,699.80	829.78	793.34	36.44	22.771		
8,600.00	7,480.00	7,437.92	7,437.19	33.93	7.44	-90.47	1,409.33	-1,699.81	768.89	731.83	37.06	20.745		
8,700.00	7,480.00	7,437.54	7,436.81	34.73	7.44	-90.44	1,409.33	-1,699.81	716.84	678.77	38.06	18.832		
8,800.00	7,480.00	7,437.15	7,436.42	35.58	7.44	-90.40	1,409.33	-1,699.81	675.66	636.18	39.47	17.117		
8,900.00	7,480.00	7,436.76	7,436.03	36.49	7.44	-90.37	1,409.33	-1,699.81	647.43	606.21	41.22	15.706		
9,000.00	7,480.00	7,436.37	7,435.63	37.45	7.44	-90.33	1,409.33	-1,699.81	633.90	590.78	43.11	14.703		
9,036.72	7,480.00	7,436.22	7,435.49	37.82	7.44	-90.32	1,409.33	-1,699.81	632.83	589.04	43.80	14.450 CC, ES		
9,100.00	7,480.00	7,435.97	7,435.24	38.45	7.44	-90.29	1,409.33	-1,699.82	635.99	591.11	44.88	14.171		
9,200.00	7,480.00	7,435.57	7,434.83	39.49	7.44	-90.26	1,409.34	-1,699.82	653.56	607.26	46.30	14.117 SF		
9,300.00	7,480.00	7,435.16	7,434.43	40.56	7.44	-90.22	1,409.34	-1,699.82	685.42	638.16	47.25	14.505		
9,400.00	7,480.00	7,434.75	7,434.02	41.66	7.44	-90.18	1,409.34	-1,699.82	729.69	681.91	47.78	15.272		
9,500.00	7,480.00	7,434.34	7,433.61	42.79	7.44	-90.15	1,409.34	-1,699.82	784.29	736.32	47.97	16.350		
9,600.00	7,480.00	7,433.93	7,433.20	43.95	7.44	-90.11	1,409.34	-1,699.83	847.21	799.28	47.93	17.677		
9,700.00	7,480.00	7,433.51	7,432.78	45.13	7.44	-90.07	1,409.34	-1,699.83	916.74	869.00	47.74	19.201		
9,800.00	7,480.00	7,433.09	7,432.35	46.34	7.44	-90.03	1,409.35	-1,699.83	991.50	944.01	47.49	20.879		
9,900.00	7,480.00	7,432.66	7,431.93	47.57	7.44	-89.99	1,409.35	-1,699.83	1,070.39	1,023.19	47.20	22.678		
10,000.00	7,480.00	7,432.23	7,431.50	48.82	7.44	-89.96	1,409.35	-1,699.84	1,152.55	1,105.65	46.91	24.572		
10,100.00	7,480.00	7,431.80	7,431.07	50.08	7.44	-89.92	1,409.35	-1,699.84	1,237.35	1,190.73	46.62	26.542		
10,200.00	7,480.00	7,431.36	7,430.63	51.36	7.44	-89.88	1,409.35	-1,699.84	1,324.27	1,277.92	46.35	28.573		
10,300.00	7,480.00	7,430.92	7,430.19	52.66	7.44	-89.84	1,409.35	-1,699.84	1,412.92	1,366.83	46.09	30.654		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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		
2,500.00	2,476.02	2,419.04	2,412.98	9.70	5.04	20.84	-101.35	-1,760.56	1,491.38	1,477.48	13.90	107.312		
2,600.00	2,574.49	2,500.00	2,493.87	10.14	5.18	20.92	-104.45	-1,761.70	1,476.47	1,462.03	14.44	102.274		
2,700.00	2,672.96	2,594.12	2,587.93	10.59	5.34	21.03	-107.42	-1,763.74	1,462.31	1,447.32	14.99	97.579		
2,800.00	2,771.43	2,692.39	2,686.13	11.03	5.50	21.18	-109.88	-1,766.21	1,448.49	1,432.95	15.54	93.220		
2,900.00	2,869.89	2,789.16	2,782.85	11.47	5.65	21.34	-111.95	-1,768.72	1,434.75	1,418.67	16.09	89.180		
3,000.00	2,968.36	2,888.35	2,881.99	11.91	5.81	21.53	-113.64	-1,771.37	1,421.12	1,404.48	16.64	85.420		
3,100.00	3,066.83	2,991.40	2,984.99	12.36	5.97	21.75	-114.84	-1,773.95	1,407.35	1,390.16	17.19	81.879		
3,200.00	3,165.30	3,085.56	3,079.13	12.80	6.12	21.96	-115.85	-1,776.30	1,393.58	1,375.85	17.73	78.584		
3,300.00	3,263.77	3,181.46	3,174.97	13.25	6.27	22.18	-116.72	-1,778.99	1,380.15	1,361.87	18.28	75.508		
3,400.00	3,362.23	3,282.38	3,275.86	13.69	6.43	22.44	-117.21	-1,781.87	1,366.80	1,347.97	18.83	72.591		
3,500.00	3,460.70	3,377.51	3,370.95	14.14	6.57	22.69	-117.66	-1,784.58	1,353.47	1,334.09	19.38	69.855		
3,600.00	3,559.17	3,474.31	3,467.70	14.58	6.73	22.95	-118.06	-1,787.61	1,340.45	1,320.52	19.93	67.272		
3,700.00	3,657.64	3,572.95	3,566.29	15.03	6.88	23.21	-118.54	-1,790.78	1,327.53	1,307.05	20.48	64.821		
3,800.00	3,756.11	3,676.63	3,669.91	15.47	7.05	23.49	-119.21	-1,793.98	1,314.52	1,293.48	21.04	62.473		
3,900.00	3,854.58	3,784.22	3,777.47	15.92	7.23	23.78	-120.13	-1,796.73	1,301.00	1,279.39	21.61	60.215		
4,000.00	3,953.04	3,882.30	3,875.52	16.36	7.39	24.05	-120.77	-1,798.86	1,287.13	1,264.97	22.16	58.077		
4,100.00	4,051.51	3,979.85	3,973.05	16.81	7.54	24.35	-120.98	-1,801.09	1,273.44	1,250.72	22.72	56.052		
4,200.00	4,149.98	4,073.24	4,066.40	17.26	7.69	24.66	-120.95	-1,803.42	1,260.00	1,236.73	23.27	54.138		
4,300.00	4,248.45	4,167.88	4,161.00	17.70	7.84	24.98	-120.65	-1,806.19	1,247.05	1,223.22	23.83	52.331		
4,400.00	4,346.92	4,266.39	4,259.47	18.15	8.00	25.33	-120.25	-1,809.25	1,234.34	1,209.95	24.39	50.606		
4,500.00	4,445.38	4,365.17	4,358.20	18.60	8.16	25.68	-119.95	-1,812.31	1,221.64	1,196.68	24.96	48.953		
4,600.00	4,543.85	4,466.40	4,459.38	19.04	8.32	26.04	-119.79	-1,815.41	1,208.96	1,183.43	25.52	47.372		
4,700.00	4,642.32	4,565.32	4,558.26	19.49	8.48	26.42	-119.23	-1,818.22	1,196.13	1,170.04	26.09	45.851		
4,800.00	4,740.79	4,662.32	4,655.21	19.94	8.64	26.79	-118.88	-1,821.12	1,183.48	1,156.82	26.65	44.400		
4,900.00	4,839.26	4,775.39	4,768.24	20.38	8.83	27.24	-118.41	-1,824.16	1,170.63	1,143.40	27.23	42.993		
5,000.00	4,937.73	4,890.86	4,883.70	20.83	9.02	27.70	-118.15	-1,825.41	1,156.19	1,128.39	27.80	41.592		
5,100.00	5,036.19	4,996.53	4,989.37	21.28	9.19	28.14	-118.13	-1,825.51	1,140.83	1,112.46	28.37	40.213		
5,200.00	5,134.66	5,094.18	5,087.03	21.73	9.36	28.55	-118.24	-1,825.36	1,125.26	1,096.32	28.94	38.876		
5,300.00	5,233.13	5,189.21	5,182.05	22.17	9.52	28.95	-118.45	-1,825.42	1,109.95	1,080.42	29.53	37.593		
5,400.00	5,331.60	5,293.30	5,286.13	22.62	9.70	29.36	-119.50	-1,825.54	1,094.65	1,064.54	30.11	36.359		
5,500.00	5,430.07	5,395.17	5,387.99	23.07	9.87	29.75	-121.04	-1,825.27	1,078.93	1,048.25	30.69	35.160		
5,600.00	5,528.54	5,487.37	5,480.20	23.52	10.03	30.16	-121.62	-1,825.01	1,063.40	1,032.13	31.27	34.005		
5,700.00	5,627.00	5,581.13	5,573.95	23.96	10.19	30.61	-121.68	-1,825.18	1,048.47	1,016.61	31.86	32.907		
5,800.00	5,725.47	5,681.12	5,673.94	24.41	10.36	31.06	-122.31	-1,825.67	1,033.81	1,001.36	32.45	31.859		
5,900.00	5,823.94	5,789.48	5,782.29	24.86	10.54	31.59	-122.93	-1,825.58	1,018.67	985.65	33.03	30.842		
6,000.00	5,922.41	5,882.44	5,875.25	25.31	10.70	32.06	-123.29	-1,825.14	1,003.27	969.64	33.63	29.835		
6,100.00	6,020.88	5,969.97	5,962.79	25.75	10.85	32.51	-123.69	-1,825.51	988.79	954.56	34.23	28.885		
6,200.00	6,119.34	6,066.89	6,059.69	26.20	11.01	33.02	-123.92	-1,826.73	975.24	940.41	34.83	27.999		
6,300.00	6,217.81	6,164.25	6,157.05	26.65	11.17	33.56	-123.97	-1,827.81	961.66	926.23	35.43	27.142		
6,400.00	6,316.28	6,259.85	6,252.64	27.10	11.33	34.16	-123.07	-1,828.97	948.50	912.47	36.03	26.323		
6,500.00	6,414.75	6,358.99	6,351.75	27.54	11.49	34.85	-121.29	-1,830.16	935.64	899.01	36.64	25.538		
6,600.00	6,513.22	6,459.58	6,452.32	27.99	11.65	35.58	-119.31	-1,831.09	922.69	885.45	37.24	24.775		
6,700.00	6,611.69	6,560.03	6,552.74	28.44	11.81	36.35	-117.19	-1,831.77	909.70	871.85	37.85	24.032		
6,800.00	6,710.15	6,661.09	6,653.78	28.89	11.97	37.15	-114.95	-1,832.15	896.62	858.15	38.47	23.308		
6,818.10	6,727.97	6,679.43	6,672.11	28.97	12.00	37.30	-114.57	-1,832.19	894.23	855.65	38.58	23.179		
6,850.00	6,759.42	6,711.55	6,704.23	29.11	12.05	37.69	-113.93	-1,832.24	889.82	851.05	38.77	22.951		
6,900.00	6,808.74	6,761.30	6,753.97	29.32	12.13	-1.51	-113.06	-1,832.33	882.13	843.09	39.04	22.594		
6,950.00	6,857.89	6,810.57	6,803.23	29.51	12.22	-21.34	-112.34	-1,832.44	873.50	834.23	39.28	22.238		
7,000.00	6,906.63	6,858.22	6,850.88	29.69	12.29	-35.27	-111.68	-1,832.60	864.06	824.58	39.48	21.884		
7,050.00	6,954.71	6,905.58	6,898.23	29.85	12.37	-45.05	-111.00	-1,832.82	853.94	814.28	39.65	21.535		
7,100.00	7,001.91	6,954.24	6,946.89	30.00	12.45	-52.40	-110.29	-1,833.03	843.18	803.40	39.79	21.192		
7,150.00	7,048.00	6,999.99	6,992.63	30.13	12.53	-58.31	-109.60	-1,833.15	831.95	792.05	39.89	20.854		

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 4E-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 4E-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 #3	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		
7,200.00	7,092.75	7,044.46	7,037.10	30.25	12.60	-63.36	-108.90	-1,833.29	820.57	780.60	39.97	20.528		
7,250.00	7,135.95	7,085.89	7,078.52	30.36	12.67	-67.83	-108.21	-1,833.54	809.41	769.38	40.03	20.219		
7,300.00	7,177.37	7,126.92	7,119.55	30.45	12.74	-71.96	-107.52	-1,833.87	798.77	758.70	40.07	19.934		
7,350.00	7,216.83	7,166.60	7,159.22	30.53	12.80	-75.82	-106.92	-1,834.22	788.92	748.82	40.10	19.675		
7,400.00	7,254.13	7,204.38	7,196.99	30.60	12.86	-79.41	-106.41	-1,834.58	780.26	740.14	40.12	19.447		
7,450.00	7,289.09	7,242.36	7,234.97	30.66	12.93	-82.85	-105.87	-1,834.87	773.12	732.97	40.15	19.257		
7,500.00	7,321.53	7,277.86	7,270.46	30.70	12.98	-85.98	-105.27	-1,835.02	767.86	727.67	40.19	19.104		
7,550.00	7,351.30	7,309.59	7,302.18	30.74	13.04	-88.69	-104.66	-1,835.07	764.91	724.63	40.28	18.991		
7,578.39	7,366.96	7,325.14	7,317.74	30.76	13.06	-89.98	-104.35	-1,835.10	764.44	724.09	40.35	18.945 CC, ES		
7,600.00	7,378.26	7,336.39	7,328.98	30.77	13.08	-90.87	-104.13	-1,835.12	764.72	724.31	40.41	18.922		
7,650.00	7,402.27	7,360.37	7,352.96	30.80	13.12	-92.61	-103.66	-1,835.20	767.63	727.03	40.60	18.907 SF		
7,700.00	7,423.21	7,381.43	7,374.02	30.82	13.15	-93.87	-103.24	-1,835.29	773.86	733.02	40.84	18.948		
7,750.00	7,440.99	7,399.99	7,392.56	30.83	13.19	-94.65	-102.88	-1,835.38	783.55	742.42	41.13	19.051		
7,800.00	7,455.51	7,415.06	7,407.64	30.85	13.21	-94.87	-102.59	-1,835.46	796.74	755.29	41.46	19.217		
7,850.00	7,466.72	7,427.28	7,419.85	30.88	13.23	-94.55	-102.37	-1,835.52	813.38	771.56	41.82	19.449		
7,900.00	7,474.54	7,436.04	7,428.61	30.91	13.25	-93.61	-102.21	-1,835.56	833.33	791.13	42.20	19.747		
7,950.00	7,478.95	7,441.33	7,433.90	30.95	13.25	-92.04	-102.12	-1,835.59	856.37	813.79	42.58	20.110		
7,989.08	7,480.00	7,443.06	7,435.63	31.00	13.26	-90.36	-102.09	-1,835.59	876.35	833.46	42.88	20.436		
8,000.00	7,480.00	7,443.24	7,435.81	31.02	13.26	-90.37	-102.09	-1,835.59	882.20	839.23	42.96	20.533		
8,100.00	7,480.00	7,444.94	7,437.51	31.22	13.26	-90.50	-102.06	-1,835.60	940.02	896.32	43.70	21.511		
8,200.00	7,480.00	7,446.62	7,439.19	31.54	13.26	-90.63	-102.03	-1,835.61	1,004.49	960.10	44.39	22.630		
8,300.00	7,480.00	7,448.29	7,440.86	31.98	13.27	-90.76	-102.00	-1,835.61	1,074.41	1,029.40	45.00	23.873		
8,400.00	7,480.00	7,449.93	7,442.50	32.54	13.27	-90.89	-101.98	-1,835.62	1,148.78	1,103.24	45.55	25.222		
8,500.00	7,480.00	7,451.56	7,444.13	33.19	13.27	-91.01	-101.95	-1,835.63	1,226.80	1,180.78	46.02	26.658		
8,600.00	7,480.00	7,453.18	7,445.75	33.93	13.27	-91.14	-101.92	-1,835.63	1,307.82	1,261.39	46.43	28.169		
8,700.00	7,480.00	7,454.77	7,447.34	34.73	13.28	-91.26	-101.90	-1,835.64	1,391.30	1,344.52	46.78	29.741		
8,800.00	7,480.00	7,456.35	7,448.92	35.58	13.28	-91.38	-101.87	-1,835.65	1,476.84	1,429.75	47.09	31.364		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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	138.22	-14.82	13.24	32.73				
100.00	100.00	73.86	73.86	0.14	0.13	138.43	-15.05	13.35	20.12	19.84	0.27	73.793 CC	
200.00	200.00	173.84	173.84	0.50	0.30	139.39	-15.89	13.62	20.93	20.13	0.80	26.095	
300.00	300.00	273.89	273.88	0.85	0.48	140.73	-16.68	13.64	21.55	20.21	1.33	16.154	
400.00	400.00	373.97	373.96	1.21	0.65	141.32	-17.08	13.67	21.88	20.01	1.87	11.722	
500.00	500.00	473.90	473.89	1.57	0.83	141.72	-17.33	13.67	22.07	19.68	2.40	9.200 ES	
600.00	600.00	573.84	573.83	1.93	1.00	142.25	-17.95	13.90	22.71	19.78	2.93	7.743	
700.00	699.98	673.81	673.80	2.28	1.18	-110.75	-18.62	14.22	24.00	20.54	3.45	6.946	
800.00	799.84	773.61	773.59	2.62	1.35	-120.15	-19.54	14.44	27.06	23.08	3.97	6.811 SF	
900.00	899.45	873.52	873.49	2.97	1.53	-131.24	-20.87	14.15	32.67	28.17	4.50	7.264	
1,000.00	998.70	973.02	972.99	3.34	1.70	-142.99	-21.27	13.40	41.13	36.10	5.03	8.179	
1,102.07	1,099.50	1,073.92	1,073.89	3.73	1.88	-152.94	-21.21	12.63	54.02	48.45	5.57	9.696	
1,200.00	1,195.93	1,170.37	1,170.33	4.12	2.05	-159.33	-21.20	11.98	69.04	62.95	6.09	11.337	
1,300.00	1,294.40	1,269.00	1,268.96	4.52	2.22	-163.40	-21.32	11.41	85.02	78.40	6.62	12.845	
1,400.00	1,392.87	1,367.64	1,367.60	4.94	2.39	-166.14	-21.52	10.71	101.16	94.01	7.15	14.148	
1,500.00	1,491.34	1,466.34	1,466.30	5.36	2.56	-168.18	-21.60	9.97	117.42	109.74	7.68	15.284	
1,600.00	1,589.81	1,564.96	1,564.91	5.78	2.74	-169.68	-21.79	9.15	133.71	125.49	8.22	16.271	
1,700.00	1,688.27	1,663.78	1,663.72	6.21	2.91	-170.84	-22.06	8.33	150.04	141.29	8.75	17.139	
1,800.00	1,786.74	1,762.80	1,762.74	6.64	3.08	-171.78	-22.32	7.28	166.21	156.92	9.29	17.884	
1,900.00	1,885.21	1,861.96	1,861.90	7.07	3.26	-172.61	-22.47	5.95	182.17	172.34	9.83	18.524	
2,000.00	1,983.68	1,961.25	1,961.17	7.51	3.43	-173.44	-22.28	4.24	197.88	187.50	10.38	19.071	
2,100.00	2,082.15	2,059.78	2,059.68	7.95	3.60	-174.23	-21.76	2.29	213.45	202.54	10.91	19.557	
2,200.00	2,180.62	2,157.86	2,157.74	8.38	3.77	-175.04	-20.74	0.48	229.33	217.88	11.45	20.028	
2,300.00	2,279.08	2,255.76	2,255.61	8.82	3.95	-175.77	-19.50	-1.12	245.51	233.53	11.99	20.482	
2,400.00	2,377.55	2,354.68	2,354.52	9.26	4.12	-176.41	-18.25	-2.50	261.95	249.42	12.53	20.907	
2,500.00	2,476.02	2,454.57	2,454.38	9.70	4.30	-176.89	-17.47	-4.18	278.01	264.93	13.08	21.259	
2,600.00	2,574.49	2,553.88	2,553.68	10.14	4.47	-177.27	-17.05	-6.09	293.73	280.11	13.62	21.561	
2,700.00	2,672.96	2,652.68	2,652.46	10.59	4.65	-177.61	-16.67	-8.07	309.39	295.22	14.17	21.839	
2,800.00	2,771.43	2,751.65	2,751.41	11.03	4.82	-177.92	-16.22	-10.09	325.04	310.33	14.71	22.095	
2,900.00	2,869.89	2,851.03	2,850.76	11.47	5.00	-178.21	-15.84	-12.24	340.57	325.31	15.26	22.320	
3,000.00	2,968.36	2,949.92	2,949.62	11.91	5.17	-178.44	-15.66	-14.47	355.95	340.15	15.80	22.524	
3,100.00	3,066.83	3,048.12	3,047.80	12.36	5.35	-178.68	-15.29	-16.64	371.45	355.10	16.35	22.725	
3,200.00	3,165.30	3,146.87	3,146.53	12.80	5.52	-178.94	-14.60	-18.80	387.07	370.18	16.89	22.917	
3,300.00	3,263.77	3,244.74	3,244.37	13.25	5.70	-179.20	-13.83	-21.02	402.67	385.24	17.43	23.101	
3,400.00	3,362.23	3,340.36	3,339.96	13.69	5.87	-179.47	-12.65	-22.75	418.84	400.88	17.96	23.320	
3,500.00	3,460.70	3,436.57	3,436.15	14.14	6.03	-179.78	-10.80	-23.97	435.75	417.26	18.49	23.564	
3,600.00	3,559.17	3,535.64	3,535.20	14.58	6.21	179.92	-8.77	-25.07	452.87	433.83	19.04	23.784	
3,700.00	3,657.64	3,635.72	3,635.25	15.03	6.39	179.66	-6.97	-26.46	469.65	450.06	19.59	23.968	
3,800.00	3,756.11	3,734.52	3,734.02	15.47	6.56	179.42	-5.28	-27.95	486.31	466.17	20.14	24.144	
3,900.00	3,854.58	3,832.49	3,831.97	15.92	6.73	179.19	-3.62	-29.44	502.96	482.27	20.69	24.315	
4,000.00	3,953.04	3,931.05	3,930.51	16.36	6.91	179.01	-2.08	-30.59	519.89	498.65	21.23	24.487	
4,100.00	4,051.51	4,032.15	4,031.59	16.81	7.09	178.87	-0.94	-32.23	536.24	514.45	21.79	24.608	
4,200.00	4,149.98	4,128.36	4,127.77	17.26	7.26	178.71	0.43	-33.63	552.86	530.53	22.33	24.764	
4,300.00	4,248.45	4,227.55	4,226.94	17.70	7.43	178.55	1.99	-35.07	569.54	546.66	22.88	24.897	
4,400.00	4,346.92	4,325.14	4,324.51	18.15	7.61	178.39	3.67	-36.53	586.24	562.82	23.42	25.034	
4,500.00	4,445.38	4,421.82	4,421.16	18.60	7.78	178.23	5.45	-37.68	603.27	579.32	23.95	25.184	
4,600.00	4,543.85	4,521.19	4,520.50	19.04	7.96	178.03	7.73	-39.03	620.32	595.81	24.51	25.311	
4,700.00	4,642.32	4,619.29	4,618.56	19.49	8.13	177.83	10.21	-40.48	637.36	612.30	25.05	25.439	
4,800.00	4,740.79	4,717.25	4,716.47	19.94	8.31	177.62	12.88	-41.93	654.48	628.88	25.60	25.565	
4,900.00	4,839.26	4,815.11	4,814.27	20.38	8.48	177.39	15.86	-43.44	671.68	645.53	26.15	25.687	
5,000.00	4,937.73	4,911.30	4,910.39	20.83	8.66	177.13	19.45	-44.93	689.14	662.46	26.69	25.823	
5,100.00	5,036.19	5,010.97	5,009.95	21.28	8.84	176.83	23.57	-46.64	706.63	679.38	27.25	25.934	

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 4E-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 4E-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 #3	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
5,200.00	5,134.66	5,106.58	5,105.48	21.73	9.01	176.57	27.42	-48.08	724.29	696.51	27.78	26.069	
5,300.00	5,233.13	5,207.31	5,206.13	22.17	9.19	176.34	31.18	-49.42	742.00	713.65	28.35	26.173	
5,400.00	5,331.60	5,311.02	5,309.78	22.62	9.38	176.17	34.17	-51.08	759.12	730.19	28.93	26.240	
5,500.00	5,430.07	5,405.30	5,404.02	23.07	9.55	176.05	36.59	-52.47	776.24	746.79	29.46	26.352	
5,600.00	5,528.54	5,500.00	5,498.67	23.52	9.72	175.92	39.39	-53.35	794.01	764.02	29.99	26.479	
5,700.00	5,627.00	5,600.26	5,598.89	23.96	9.90	175.80	42.21	-54.08	811.91	781.36	30.55	26.579	
5,800.00	5,725.47	5,705.53	5,704.13	24.41	10.09	175.71	44.56	-55.38	829.11	797.98	31.14	26.629	
5,900.00	5,823.94	5,801.37	5,799.92	24.86	10.26	175.61	46.86	-56.87	846.11	814.44	31.67	26.714	
6,000.00	5,922.41	5,897.46	5,895.98	25.31	10.43	175.50	49.35	-58.13	863.40	831.19	32.21	26.805	
6,100.00	6,020.88	5,989.75	5,988.24	25.75	10.59	175.46	51.31	-58.64	881.17	848.45	32.72	26.929	
6,200.00	6,119.34	6,080.54	6,079.02	26.20	10.75	175.46	52.81	-58.17	899.70	866.48	33.22	27.081	
6,300.00	6,217.81	6,183.71	6,182.18	26.65	10.93	175.51	54.00	-57.06	918.53	884.74	33.79	27.180	
6,400.00	6,316.28	6,286.91	6,285.37	27.10	11.11	175.58	54.64	-56.50	936.66	902.29	34.37	27.255	
6,500.00	6,414.75	6,388.77	6,387.23	27.54	11.28	175.63	55.22	-56.40	954.38	919.45	34.93	27.323	
6,600.00	6,513.22	6,487.68	6,486.14	27.99	11.45	175.71	55.26	-56.28	971.88	936.40	35.47	27.397	
6,700.00	6,611.69	6,584.12	6,582.58	28.44	11.62	175.79	55.26	-56.07	989.46	953.46	36.01	27.480	
6,800.00	6,710.15	6,682.93	6,681.39	28.89	11.79	175.87	55.27	-55.74	1,007.17	970.61	36.55	27.555	
6,818.10	6,727.97	6,700.90	6,699.36	28.97	11.82	175.89	55.26	-55.68	1,010.36	973.71	36.65	27.568	
6,850.00	6,759.42	6,732.26	6,730.72	29.11	11.87	161.08	55.25	-55.59	1,015.69	978.87	36.82	27.584	
6,900.00	6,808.74	6,781.46	6,779.92	29.32	11.96	137.05	55.27	-55.45	1,022.83	985.74	37.09	27.578	
6,950.00	6,857.89	6,829.54	6,828.00	29.51	12.04	117.96	55.33	-55.31	1,028.50	991.16	37.34	27.541	
7,000.00	6,906.63	6,876.65	6,875.11	29.69	12.12	105.32	55.42	-55.12	1,032.80	995.21	37.59	27.476	
7,050.00	6,954.71	6,924.03	6,922.49	29.85	12.20	97.38	55.53	-54.86	1,035.79	997.96	37.83	27.378	
7,100.00	7,001.91	6,971.46	6,969.91	30.00	12.29	92.41	55.66	-54.61	1,037.50	999.43	38.08	27.249	
7,150.00	7,048.00	7,018.58	7,017.03	30.13	12.37	89.35	55.81	-54.39	1,038.06	999.75	38.32	27.092	
7,200.00	7,092.75	7,065.59	7,064.05	30.25	12.45	87.60	55.96	-54.26	1,037.56	999.00	38.56	26.909	
7,250.00	7,135.95	7,110.83	7,109.28	30.36	12.53	86.73	56.11	-54.24	1,036.17	997.37	38.79	26.710	
7,300.00	7,177.37	7,153.64	7,152.09	30.45	12.60	86.47	56.21	-54.27	1,034.14	995.12	39.02	26.503	
7,350.00	7,216.83	7,194.36	7,192.81	30.53	12.67	86.68	56.26	-54.34	1,031.71	992.47	39.24	26.291	
7,400.00	7,254.13	7,229.95	7,228.40	30.60	12.73	87.09	56.28	-54.39	1,029.19	989.75	39.45	26.091	
7,450.00	7,289.09	7,262.86	7,261.32	30.66	12.79	87.68	56.31	-54.38	1,026.91	987.26	39.64	25.903	
7,500.00	7,321.53	7,293.44	7,291.89	30.70	12.84	88.39	56.36	-54.30	1,025.10	985.26	39.84	25.729	
7,550.00	7,351.30	7,322.94	7,321.40	30.74	12.90	89.20	56.43	-54.20	1,024.01	983.96	40.05	25.569	
7,584.45	7,370.18	7,342.00	7,340.45	30.76	12.93	89.75	56.50	-54.13	1,023.77	983.57	40.19	25.472	
7,600.00	7,378.26	7,350.17	7,348.62	30.77	12.94	90.00	56.54	-54.11	1,023.82	983.56	40.26	25.433	
7,650.00	7,402.27	7,374.54	7,373.00	30.80	12.98	90.71	56.66	-54.03	1,024.76	984.30	40.46	25.328	
7,700.00	7,423.21	7,395.94	7,394.39	30.82	13.02	91.28	56.79	-53.97	1,027.04	986.38	40.66	25.258	
7,750.00	7,440.99	7,413.48	7,411.93	30.83	13.05	91.63	56.90	-53.92	1,030.83	989.98	40.85	25.234	
7,800.00	7,455.51	7,427.68	7,426.13	30.85	13.08	91.74	57.00	-53.87	1,036.27	995.24	41.03	25.255	
7,850.00	7,466.72	7,438.68	7,437.13	30.88	13.10	91.61	57.06	-53.82	1,043.44	1,002.24	41.20	25.325	
7,900.00	7,474.54	7,446.43	7,444.88	30.91	13.11	91.21	57.11	-53.78	1,052.37	1,011.02	41.36	25.445	
7,950.00	7,478.95	7,450.92	7,449.37	30.95	13.12	90.54	57.13	-53.76	1,063.06	1,021.56	41.50	25.616	
7,989.08	7,480.00	7,452.14	7,450.59	31.00	13.12	89.81	57.14	-53.76	1,072.60	1,031.01	41.60	25.785	
8,000.00	7,480.00	7,452.20	7,450.65	31.02	13.12	89.82	57.14	-53.76	1,075.46	1,033.84	41.62	25.838	
8,100.00	7,480.00	7,452.75	7,451.20	31.22	13.12	89.85	57.14	-53.75	1,106.31	1,064.46	41.85	26.435	
8,200.00	7,480.00	7,453.30	7,451.75	31.54	13.12	89.88	57.15	-53.75	1,145.09	1,103.03	42.06	27.227	
8,300.00	7,480.00	7,453.85	7,452.30	31.98	13.12	89.91	57.15	-53.75	1,191.02	1,148.79	42.24	28.197	
8,400.00	7,480.00	7,454.40	7,452.85	32.54	13.12	89.94	57.15	-53.75	1,243.32	1,200.93	42.39	29.328	
8,500.00	7,480.00	7,454.94	7,453.39	33.19	13.12	89.97	57.16	-53.74	1,301.21	1,258.69	42.52	30.599	
8,600.00	7,480.00	7,455.48	7,453.93	33.93	13.12	90.00	57.16	-53.74	1,363.99	1,321.35	42.63	31.995	
8,700.00	7,480.00	7,456.02	7,454.48	34.73	13.13	90.03	57.16	-53.74	1,431.00	1,388.28	42.72	33.498	

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 4E-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 4E-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 #3	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	
6,200.00	6,119.34	6,125.67	6,053.30	26.20	16.74	65.66	729.52	-1,932.92	1,497.55	1,458.76	38.78	38.613	
6,300.00	6,217.81	6,240.35	6,167.97	26.65	16.89	66.35	730.68	-1,934.39	1,492.00	1,452.67	39.33	37.931	
6,400.00	6,316.28	6,345.82	6,273.43	27.10	17.01	67.01	731.51	-1,934.90	1,485.92	1,446.03	39.89	37.254	
6,500.00	6,414.75	6,446.77	6,374.38	27.54	17.14	67.66	732.23	-1,934.90	1,479.64	1,439.20	40.44	36.591	
6,600.00	6,513.22	6,543.73	6,471.34	27.99	17.26	68.29	733.01	-1,934.86	1,473.57	1,432.58	40.99	35.951	
6,700.00	6,611.69	6,642.12	6,569.73	28.44	17.39	68.94	733.86	-1,934.83	1,467.76	1,426.22	41.54	35.331	
6,800.00	6,710.15	6,741.03	6,668.63	28.89	17.51	69.59	734.72	-1,934.76	1,462.12	1,420.02	42.10	34.730	
6,818.10	6,727.97	6,759.21	6,686.81	28.97	17.54	69.72	734.88	-1,934.74	1,461.11	1,418.91	42.20	34.623	
6,850.00	6,759.42	6,791.42	6,719.02	29.11	17.58	55.31	735.15	-1,934.69	1,458.81	1,416.43	42.38	34.424	
6,900.00	6,808.74	6,841.96	6,769.55	29.32	17.64	31.50	735.57	-1,934.57	1,453.06	1,410.42	42.64	34.075	
6,950.00	6,857.89	6,892.32	6,819.92	29.51	17.70	12.12	735.97	-1,934.41	1,444.70	1,401.81	42.89	33.682	
7,000.00	6,906.63	6,940.94	6,868.53	29.69	17.77	-1.31	736.34	-1,934.22	1,433.77	1,390.65	43.13	33.247	
7,050.00	6,954.71	6,987.30	6,914.89	29.85	17.83	-10.54	736.73	-1,934.07	1,420.39	1,377.05	43.34	32.771	
7,100.00	7,001.91	7,032.88	6,960.47	30.00	17.89	-17.30	737.14	-1,933.97	1,404.64	1,361.09	43.55	32.256	
7,150.00	7,048.00	7,077.45	7,005.04	30.13	17.95	-22.66	737.58	-1,933.91	1,386.61	1,342.87	43.74	31.704	
7,200.00	7,092.75	7,122.16	7,049.75	30.25	18.01	-27.26	738.05	-1,933.89	1,366.40	1,322.49	43.91	31.116	
7,250.00	7,135.95	7,166.18	7,093.76	30.36	18.07	-31.47	738.53	-1,933.83	1,344.11	1,300.03	44.07	30.496	
7,300.00	7,177.37	7,208.43	7,136.02	30.45	18.12	-35.52	738.99	-1,933.73	1,319.89	1,275.67	44.22	29.848	
7,350.00	7,216.83	7,248.74	7,176.31	30.53	18.18	-39.58	739.45	-1,933.60	1,293.93	1,249.58	44.35	29.175	
7,400.00	7,254.13	7,286.65	7,214.23	30.60	18.23	-43.73	739.88	-1,933.45	1,266.46	1,222.00	44.47	28.481	
7,450.00	7,289.09	7,322.01	7,249.58	30.66	18.28	-48.02	740.30	-1,933.30	1,237.73	1,193.16	44.57	27.771	
7,500.00	7,321.53	7,354.89	7,282.46	30.70	18.32	-52.48	740.70	-1,933.14	1,208.00	1,163.35	44.66	27.050	
7,550.00	7,351.30	7,385.15	7,312.72	30.74	18.36	-57.08	741.07	-1,933.00	1,177.57	1,132.83	44.74	26.321	
7,600.00	7,378.26	7,412.64	7,340.20	30.77	18.40	-61.76	741.41	-1,932.86	1,146.74	1,101.93	44.81	25.590	
7,650.00	7,402.27	7,437.21	7,364.77	30.80	18.43	-66.43	741.73	-1,932.73	1,115.85	1,070.97	44.88	24.862	
7,700.00	7,423.21	7,458.32	7,385.88	30.82	18.46	-70.96	742.00	-1,932.61	1,085.25	1,040.30	44.95	24.142	
7,750.00	7,440.99	7,476.21	7,403.77	30.83	18.49	-75.25	742.23	-1,932.53	1,055.33	1,010.30	45.03	23.435	
7,800.00	7,455.51	7,490.96	7,418.52	30.85	18.51	-79.21	742.42	-1,932.46	1,026.45	981.33	45.13	22.746	
7,850.00	7,466.72	7,502.50	7,430.05	30.88	18.53	-82.74	742.58	-1,932.42	999.00	953.76	45.24	22.082	
7,900.00	7,474.54	7,510.76	7,438.32	30.91	18.54	-85.77	742.68	-1,932.39	973.37	927.98	45.38	21.448	
7,950.00	7,478.95	7,515.70	7,443.26	30.95	18.54	-88.28	742.75	-1,932.37	949.90	904.34	45.56	20.849	
7,989.08	7,480.00	7,517.24	7,444.79	31.00	18.55	-89.85	742.77	-1,932.37	933.29	887.57	45.73	20.410	
8,000.00	7,480.00	7,517.38	7,444.94	31.02	18.55	-89.86	742.77	-1,932.36	928.93	883.16	45.78	20.292	
8,100.00	7,480.00	7,518.69	7,446.24	31.22	18.55	-89.94	742.79	-1,932.36	894.25	847.86	46.39	19.277	
8,200.00	7,480.00	7,519.99	7,447.55	31.54	18.55	-90.03	742.81	-1,932.36	869.73	822.48	47.25	18.408	
8,300.00	7,480.00	7,521.30	7,448.86	31.98	18.55	-90.12	742.83	-1,932.35	856.26	807.94	48.32	17.721	
8,366.26	7,480.00	7,522.17	7,449.72	32.34	18.55	-90.18	742.84	-1,932.35	853.69	804.58	49.12	17.381	CC, ES
8,400.00	7,480.00	7,522.61	7,450.17	32.54	18.55	-90.21	742.84	-1,932.35	854.36	804.84	49.52	17.251	
8,500.00	7,480.00	7,523.92	7,451.48	33.19	18.56	-90.29	742.86	-1,932.34	864.10	813.35	50.75	17.025	SF
8,600.00	7,480.00	7,525.24	7,452.79	33.93	18.56	-90.38	742.88	-1,932.34	885.11	833.21	51.90	17.053	
8,700.00	7,480.00	7,526.55	7,454.10	34.73	18.56	-90.47	742.90	-1,932.33	916.60	863.71	52.89	17.329	
8,800.00	7,480.00	7,527.87	7,455.42	35.58	18.56	-90.56	742.91	-1,932.33	957.54	903.85	53.69	17.834	
8,900.00	7,480.00	7,529.18	7,456.74	36.49	18.56	-90.65	742.93	-1,932.33	1,006.79	952.49	54.30	18.542	
9,000.00	7,480.00	7,530.50	7,458.06	37.45	18.57	-90.74	742.95	-1,932.32	1,063.18	1,008.45	54.73	19.427	
9,100.00	7,480.00	7,531.82	7,459.38	38.45	18.57	-90.82	742.97	-1,932.32	1,125.64	1,070.63	55.01	20.462	
9,200.00	7,480.00	7,533.15	7,460.70	39.49	18.57	-90.91	742.98	-1,932.31	1,193.23	1,138.04	55.18	21.623	
9,300.00	7,480.00	7,534.47	7,462.02	40.56	18.57	-91.00	743.00	-1,932.31	1,265.11	1,209.84	55.27	22.889	
9,400.00	7,480.00	7,535.79	7,463.35	41.66	18.57	-91.09	743.02	-1,932.31	1,340.60	1,285.31	55.30	24.243	
9,500.00	7,480.00	7,537.12	7,464.67	42.79	18.57	-91.18	743.04	-1,932.30	1,419.13	1,363.85	55.28	25.671	

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 4E-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 4E-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 #3	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		
0.00	0.00	0.00	0.00	0.00	0.00	-90.27	-0.19	-40.00	40.00					
100.00	100.00	100.00	100.00	0.14	0.14	-90.27	-0.19	-40.00	40.00	39.72	0.28	144.919		
200.00	200.00	200.00	200.00	0.50	0.50	-90.27	-0.19	-40.00	40.00	39.01	0.99	40.284	CC, ES	
300.00	300.00	298.64	298.62	0.85	0.84	-90.93	-0.67	-41.63	41.66	39.92	1.74	24.000		
400.00	400.00	397.04	396.89	1.21	1.19	-92.62	-2.12	-46.49	46.64	44.14	2.50	18.624		
500.00	500.00	494.99	494.47	1.57	1.55	-94.74	-4.53	-54.54	55.01	51.73	3.28	16.771		
600.00	600.00	592.24	591.02	1.93	1.92	-96.82	-7.85	-65.69	66.77	62.72	4.05	16.479		
700.00	699.98	688.86	686.49	2.28	2.31	12.19	-12.08	-79.87	80.22	75.42	4.80	16.712		
800.00	799.84	785.06	781.00	2.62	2.72	11.20	-17.21	-97.05	93.63	88.09	5.53	16.923		
900.00	899.45	880.83	874.44	2.97	3.16	10.59	-23.21	-117.16	106.95	100.69	6.26	17.087		
1,000.00	998.70	976.20	966.73	3.34	3.63	10.22	-30.07	-140.15	120.17	113.17	6.99	17.186		
1,102.07	1,099.50	1,073.55	1,060.08	3.73	4.14	10.03	-37.97	-166.62	133.50	125.77	7.73	17.267		
1,200.00	1,195.93	1,170.69	1,152.83	4.12	4.69	9.97	-46.22	-194.27	145.94	137.52	8.42	17.341		
1,300.00	1,294.40	1,269.88	1,247.55	4.52	5.26	9.92	-54.64	-222.50	158.63	149.50	9.13	17.370		
1,400.00	1,392.87	1,369.07	1,342.26	4.94	5.83	9.88	-63.06	-250.73	171.33	161.47	9.86	17.373		
1,500.00	1,491.34	1,468.26	1,436.98	5.36	6.41	9.84	-71.49	-278.97	184.02	173.42	10.60	17.360		
1,600.00	1,589.81	1,567.45	1,531.69	5.78	7.00	9.81	-79.91	-307.20	196.72	185.37	11.35	17.338		
1,700.00	1,688.27	1,666.64	1,626.40	6.21	7.59	9.78	-88.34	-335.43	209.41	197.32	12.10	17.309		
1,800.00	1,786.74	1,765.83	1,721.12	6.64	8.18	9.75	-96.76	-363.66	222.11	209.25	12.86	17.276		
1,900.00	1,885.21	1,865.02	1,815.83	7.07	8.78	9.73	-105.18	-391.89	234.81	221.19	13.62	17.242		
2,000.00	1,983.68	1,964.21	1,910.55	7.51	9.37	9.71	-113.61	-420.13	247.50	233.12	14.38	17.207		
2,100.00	2,082.15	2,063.40	2,005.26	7.95	9.97	9.69	-122.03	-448.36	260.20	245.05	15.15	17.172		
2,200.00	2,180.62	2,162.59	2,099.98	8.38	10.57	9.68	-130.45	-476.59	272.89	256.97	15.92	17.138		
2,300.00	2,279.08	2,261.78	2,194.69	8.82	11.17	9.66	-138.88	-504.82	285.59	268.89	16.70	17.105		
2,400.00	2,377.55	2,360.97	2,289.41	9.26	11.77	9.65	-147.30	-533.05	298.28	280.81	17.47	17.072		
2,500.00	2,476.02	2,460.17	2,384.12	9.70	12.38	9.64	-155.72	-561.28	310.98	292.73	18.25	17.041		
2,600.00	2,574.49	2,559.36	2,478.83	10.14	12.98	9.62	-164.15	-589.52	323.68	304.65	19.03	17.011		
2,700.00	2,672.96	2,658.55	2,573.55	10.59	13.58	9.61	-172.57	-617.75	336.37	316.56	19.81	16.982		
2,800.00	2,771.43	2,757.74	2,668.26	11.03	14.18	9.60	-180.99	-645.98	349.07	328.48	20.59	16.955		
2,900.00	2,869.89	2,856.93	2,762.98	11.47	14.79	9.59	-189.42	-674.21	361.76	340.39	21.37	16.928		
3,000.00	2,968.36	2,956.12	2,857.69	11.91	15.39	9.59	-197.84	-702.44	374.46	352.31	22.15	16.903		
3,100.00	3,066.83	3,055.31	2,952.41	12.36	16.00	9.58	-206.27	-730.68	387.15	364.22	22.94	16.879		
3,200.00	3,165.30	3,154.50	3,047.12	12.80	16.60	9.57	-214.69	-758.91	399.85	376.13	23.72	16.856		
3,300.00	3,263.77	3,253.69	3,141.83	13.25	17.21	9.56	-223.11	-787.14	412.55	388.04	24.51	16.834		
3,400.00	3,362.23	3,352.88	3,236.55	13.69	17.81	9.56	-231.54	-815.37	425.24	399.95	25.29	16.813		
3,500.00	3,460.70	3,452.07	3,331.26	14.14	18.42	9.55	-239.96	-843.60	437.94	411.86	26.08	16.793		
3,600.00	3,559.17	3,551.26	3,425.98	14.58	19.02	9.54	-248.38	-871.83	450.63	423.77	26.87	16.773		
3,700.00	3,657.64	3,650.45	3,520.69	15.03	19.63	9.54	-256.81	-900.07	463.33	435.68	27.65	16.755		
3,800.00	3,756.11	3,749.65	3,615.41	15.47	20.24	9.53	-265.23	-928.30	476.03	447.58	28.44	16.737		
3,900.00	3,854.58	3,848.84	3,710.12	15.92	20.84	9.53	-273.65	-956.53	488.72	459.49	29.23	16.720		
4,000.00	3,953.04	3,948.03	3,804.84	16.36	21.45	9.52	-282.08	-984.76	501.42	471.40	30.02	16.704		
4,100.00	4,051.51	4,047.22	3,899.55	16.81	22.06	9.52	-290.50	-1,012.99	514.11	483.31	30.81	16.688		
4,200.00	4,149.98	4,146.41	3,994.26	17.26	22.66	9.51	-298.92	-1,041.23	526.81	495.21	31.60	16.673		
4,300.00	4,248.45	4,245.60	4,088.98	17.70	23.27	9.51	-307.35	-1,069.46	539.50	507.12	32.39	16.658		
4,400.00	4,346.92	4,344.79	4,183.69	18.15	23.88	9.51	-315.77	-1,097.69	552.20	519.02	33.18	16.644		
4,500.00	4,445.38	4,443.98	4,278.41	18.60	24.48	9.50	-324.19	-1,125.92	564.90	530.93	33.97	16.631		
4,600.00	4,543.85	4,543.17	4,373.12	19.04	25.09	9.50	-332.62	-1,154.15	577.59	542.84	34.76	16.618		
4,700.00	4,642.32	4,642.36	4,467.84	19.49	25.70	9.50	-341.04	-1,182.39	590.29	554.74	35.55	16.606		
4,800.00	4,740.79	4,741.55	4,562.55	19.94	26.31	9.49	-349.47	-1,210.62	602.98	566.65	36.34	16.594		
4,900.00	4,839.26	4,840.74	4,657.27	20.38	26.91	9.49	-357.89	-1,238.85	615.68	578.55	37.13	16.582		
5,000.00	4,937.73	4,939.94	4,751.98	20.83	27.52	9.49	-366.31	-1,267.08	628.38	590.46	37.92	16.571		
5,100.00	5,036.19	5,039.13	4,846.69	21.28	28.13	9.48	-374.74	-1,295.31	641.07	602.36	38.71	16.560		

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 4E-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 4E-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 #3	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		
5,200.00	5,134.66	5,138.32	4,941.41	21.73	28.73	9.48	-383.16	-1,323.54	653.77	614.26	39.50	16.550		
5,300.00	5,233.13	5,237.51	5,036.12	22.17	29.34	9.48	-391.58	-1,351.78	666.46	626.17	40.29	16.540		
5,400.00	5,331.60	5,336.70	5,130.84	22.62	29.95	9.48	-400.01	-1,380.01	679.16	638.07	41.09	16.530		
5,500.00	5,430.07	5,435.89	5,225.55	23.07	30.56	9.47	-408.43	-1,408.24	691.86	649.98	41.88	16.521		
5,600.00	5,528.54	5,535.08	5,320.27	23.52	31.17	9.47	-416.85	-1,436.47	704.55	661.88	42.67	16.511		
5,700.00	5,627.00	5,634.27	5,414.98	23.96	31.77	9.47	-425.28	-1,464.70	717.25	673.78	43.46	16.503		
5,800.00	5,725.47	5,733.46	5,509.70	24.41	32.38	9.47	-433.70	-1,492.94	729.94	685.69	44.25	16.494		
5,900.00	5,823.94	5,832.65	5,604.41	24.86	32.99	9.46	-442.12	-1,521.17	742.64	697.59	45.05	16.486		
6,000.00	5,922.41	5,931.84	5,699.12	25.31	33.60	9.46	-450.55	-1,549.40	755.33	709.50	45.84	16.478		
6,100.00	6,020.88	6,031.03	5,793.84	25.75	34.20	9.46	-458.97	-1,577.63	768.03	721.40	46.63	16.470		
6,200.00	6,119.34	6,130.22	5,888.55	26.20	34.81	9.46	-467.40	-1,605.86	780.73	733.30	47.43	16.462		
6,300.00	6,217.81	6,229.42	5,983.27	26.65	35.42	9.46	-475.82	-1,634.09	793.42	745.20	48.22	16.455		
6,400.00	6,316.28	6,328.61	6,077.98	27.10	36.03	9.45	-484.24	-1,662.33	806.12	757.11	49.01	16.448		
6,500.00	6,414.75	6,427.80	6,172.70	27.54	36.64	9.45	-492.67	-1,690.56	818.81	769.01	49.80	16.441		
6,600.00	6,513.22	6,526.99	6,267.41	27.99	37.24	9.45	-501.09	-1,718.79	831.51	780.91	50.60	16.434		
6,700.00	6,611.69	6,626.18	6,362.13	28.44	37.85	9.45	-509.51	-1,747.02	844.21	792.82	51.39	16.427		
6,800.00	6,710.15	6,725.37	6,456.84	28.89	38.46	9.45	-517.94	-1,775.25	856.90	804.72	52.18	16.421		
6,818.10	6,727.97	6,743.32	6,473.98	28.97	38.57	9.45	-519.46	-1,780.36	859.20	806.87	52.33	16.420		
6,850.00	6,759.42	6,774.94	6,504.17	29.11	38.76	-4.75	-522.15	-1,789.36	863.39	810.82	52.57	16.422		
6,900.00	6,808.74	6,824.26	6,551.27	29.32	39.07	-28.18	-526.33	-1,803.40	870.54	817.60	52.94	16.445		
6,950.00	6,857.89	6,873.10	6,597.90	29.51	39.37	-47.11	-530.48	-1,817.30	878.40	825.12	53.27	16.489		
7,000.00	6,906.63	6,921.21	6,643.85	29.69	39.66	-59.97	-534.57	-1,830.99	887.01	833.43	53.58	16.554		
7,050.00	6,954.71	6,968.37	6,688.87	29.85	39.95	-68.51	-538.57	-1,844.42	896.45	842.57	53.88	16.638		
7,100.00	7,001.91	7,014.34	6,732.77	30.00	40.23	-74.40	-542.48	-1,857.50	906.81	852.65	54.16	16.742		
7,150.00	7,048.00	7,058.89	6,775.31	30.13	40.50	-78.66	-546.26	-1,870.18	918.21	863.76	54.45	16.864		
7,200.00	7,092.75	7,101.82	6,816.30	30.25	40.77	-81.85	-549.91	-1,882.40	930.77	876.03	54.74	17.003		
7,250.00	7,135.95	7,142.91	6,855.54	30.36	41.02	-84.30	-553.40	-1,894.09	944.63	889.57	55.06	17.157		
7,300.00	7,177.37	7,181.96	6,892.82	30.45	41.26	-86.18	-556.71	-1,905.21	959.90	904.50	55.40	17.327		
7,350.00	7,216.83	7,218.78	6,927.98	30.53	41.48	-87.59	-559.84	-1,915.69	976.71	920.93	55.78	17.510		
7,400.00	7,254.13	7,280.72	6,987.22	30.60	41.86	-89.71	-563.61	-1,933.33	994.93	938.51	56.41	17.636		
7,450.00	7,289.09	7,389.45	7,091.11	30.66	42.45	-93.11	-566.13	-1,964.06	1,012.82	955.62	57.20	17.707		
7,500.00	7,321.53	7,529.00	7,220.14	30.70	43.04	-96.62	-519.80	-2,001.85	1,029.01	971.47	57.54	17.884		
7,550.00	7,351.30	7,706.46	7,368.23	30.74	43.55	-99.64	-433.00	-2,044.60	1,041.82	984.84	56.98	18.283		
7,600.00	7,378.26	7,916.83	7,506.13	30.77	43.84	-101.10	-280.26	-2,083.40	1,049.27	993.62	55.65	18.853		
7,650.00	7,402.27	8,133.91	7,590.87	30.80	43.87	-100.22	-82.81	-2,105.79	1,050.14	995.28	54.86	19.141		
7,700.00	7,423.21	8,302.09	7,610.00	30.82	43.80	-98.10	83.76	-2,109.15	1,045.14	989.68	55.46	18.844		
7,750.00	7,440.99	8,348.73	7,610.00	30.83	43.78	-97.92	130.39	-2,108.49	1,039.38	983.33	56.05	18.542		
7,800.00	7,455.51	8,396.51	7,610.00	30.85	43.77	-97.72	178.17	-2,107.83	1,034.92	978.33	56.59	18.287		
7,850.00	7,466.72	8,445.20	7,610.00	30.88	43.77	-97.54	226.85	-2,107.15	1,031.65	974.54	57.11	18.064		
7,900.00	7,474.54	8,494.56	7,610.00	30.91	43.77	-97.39	276.21	-2,106.46	1,029.49	971.92	57.57	17.883		
7,950.00	7,478.95	8,544.35	7,610.00	30.95	43.79	-97.29	326.00	-2,105.76	1,028.37	970.37	58.00	17.730		
7,980.41	7,479.95	8,574.74	7,610.00	30.99	43.80	-97.27	356.38	-2,105.34	1,028.18	969.94	58.24	17.655		
7,989.08	7,480.00	8,583.41	7,610.00	31.00	43.81	-97.26	365.06	-2,105.22	1,028.20	969.90	58.30	17.636		
8,000.00	7,480.00	8,594.33	7,610.00	31.02	43.81	-97.26	375.97	-2,105.07	1,028.24	969.86	58.38	17.613		
8,100.00	7,480.00	8,694.33	7,610.00	31.22	43.89	-97.26	475.96	-2,103.67	1,028.58	969.36	59.22	17.369		
8,200.00	7,480.00	8,794.33	7,610.00	31.54	44.01	-97.26	575.95	-2,102.27	1,028.93	968.72	60.21	17.089		
8,300.00	7,480.00	8,894.33	7,610.00	31.98	44.17	-97.26	675.94	-2,100.88	1,029.27	967.93	61.34	16.779		
8,400.00	7,480.00	8,994.33	7,610.00	32.54	44.39	-97.25	775.93	-2,099.48	1,029.62	967.01	62.61	16.444		
8,500.00	7,480.00	9,094.33	7,610.00	33.19	44.65	-97.25	875.92	-2,098.08	1,029.97	965.96	64.01	16.090		
8,600.00	7,480.00	9,194.33	7,610.00	33.93	44.98	-97.25	975.91	-2,096.69	1,030.31	964.78	65.53	15.723		
8,700.00	7,480.00	9,294.33	7,610.00	34.73	45.36	-97.25	1,075.90	-2,095.29	1,030.66	963.50	67.16	15.347		
8,800.00	7,480.00	9,394.33	7,610.00	35.58	45.81	-97.24	1,175.89	-2,093.90	1,031.01	962.12	68.89	14.966		

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 4E-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 4E-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 #3	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		
8,900.00	7,480.00	9,494.33	7,610.00	36.49	46.32	-97.24	1,275.88	-2,092.50	1,031.35	960.63	70.72	14.584		
9,000.00	7,480.00	9,594.33	7,610.00	37.45	46.89	-97.24	1,375.87	-2,091.10	1,031.70	959.06	72.63	14.204		
9,100.00	7,480.00	9,694.32	7,610.00	38.45	47.53	-97.24	1,475.86	-2,089.71	1,032.04	957.41	74.63	13.828		
9,200.00	7,480.00	9,794.32	7,610.00	39.49	48.23	-97.23	1,575.85	-2,088.31	1,032.39	955.69	76.71	13.459		
9,300.00	7,480.00	9,894.32	7,610.00	40.56	48.98	-97.23	1,675.84	-2,086.91	1,032.74	953.89	78.85	13.098		
9,400.00	7,480.00	9,994.32	7,610.00	41.66	49.79	-97.23	1,775.83	-2,085.52	1,033.08	952.03	81.06	12.745		
9,500.00	7,480.00	10,094.32	7,610.00	42.79	50.66	-97.23	1,875.82	-2,084.12	1,033.43	950.11	83.32	12.403		
9,600.00	7,480.00	10,194.32	7,610.00	43.95	51.57	-97.22	1,975.81	-2,082.73	1,033.78	948.13	85.64	12.071		
9,700.00	7,480.00	10,294.32	7,610.00	45.13	52.52	-97.22	2,075.80	-2,081.33	1,034.12	946.11	88.01	11.750		
9,800.00	7,480.00	10,394.32	7,610.00	46.34	53.51	-97.22	2,175.79	-2,079.93	1,034.47	944.04	90.43	11.440		
9,900.00	7,480.00	10,494.32	7,610.00	47.57	54.54	-97.22	2,275.77	-2,078.54	1,034.82	941.93	92.89	11.141		
10,000.00	7,480.00	10,594.32	7,610.00	48.82	55.60	-97.21	2,375.76	-2,077.14	1,035.16	939.78	95.38	10.853		
10,100.00	7,480.00	10,694.32	7,610.00	50.08	56.70	-97.21	2,475.75	-2,075.74	1,035.51	937.59	97.92	10.575		
10,200.00	7,480.00	10,794.32	7,610.00	51.36	57.82	-97.21	2,575.74	-2,074.35	1,035.85	935.37	100.48	10.309		
10,300.00	7,480.00	10,894.32	7,610.00	52.66	58.96	-97.21	2,675.73	-2,072.95	1,036.20	933.12	103.08	10.052		
10,400.00	7,480.00	10,994.32	7,610.00	53.97	60.13	-97.20	2,775.72	-2,071.56	1,036.55	930.84	105.71	9.806		
10,500.00	7,480.00	11,094.32	7,610.00	55.29	61.32	-97.20	2,875.71	-2,070.16	1,036.89	928.53	108.36	9.569		
10,600.00	7,480.00	11,194.32	7,610.00	56.63	62.53	-97.20	2,975.70	-2,068.76	1,037.24	926.20	111.04	9.341		
10,700.00	7,480.00	11,294.31	7,610.00	57.98	63.76	-97.20	3,075.69	-2,067.37	1,037.59	923.85	113.74	9.123		
10,800.00	7,480.00	11,394.31	7,610.00	59.34	65.01	-97.20	3,175.68	-2,065.97	1,037.93	921.47	116.46	8.912		
10,900.00	7,480.00	11,494.31	7,610.00	60.71	66.27	-97.19	3,275.67	-2,064.58	1,038.28	919.08	119.20	8.710		
11,000.00	7,480.00	11,594.31	7,610.00	62.09	67.54	-97.19	3,375.66	-2,063.18	1,038.62	916.66	121.96	8.516		
11,100.00	7,480.00	11,694.31	7,610.00	63.47	68.83	-97.19	3,475.65	-2,061.78	1,038.97	914.23	124.74	8.329		
11,200.00	7,480.00	11,794.31	7,610.00	64.87	70.14	-97.19	3,575.64	-2,060.39	1,039.32	911.78	127.53	8.149		
11,300.00	7,480.00	11,894.31	7,610.00	66.27	71.45	-97.18	3,675.63	-2,058.99	1,039.66	909.32	130.34	7.976		
11,400.00	7,480.00	11,994.31	7,610.00	67.68	72.78	-97.18	3,775.62	-2,057.59	1,040.01	906.84	133.17	7.810		
11,500.00	7,480.00	12,094.31	7,610.00	69.10	74.11	-97.18	3,875.61	-2,056.20	1,040.36	904.35	136.00	7.650		
11,600.00	7,480.00	12,194.31	7,610.00	70.53	75.46	-97.18	3,975.60	-2,054.80	1,040.70	901.85	138.85	7.495		
11,700.00	7,480.00	12,294.31	7,610.00	71.96	76.81	-97.17	4,075.59	-2,053.41	1,041.05	899.34	141.71	7.346		
11,800.00	7,480.00	12,394.31	7,610.00	73.39	78.18	-97.17	4,175.58	-2,052.01	1,041.40	896.81	144.58	7.203		
11,900.00	7,480.00	12,494.31	7,610.00	74.83	79.55	-97.17	4,275.57	-2,050.61	1,041.74	894.28	147.47	7.064		
12,000.00	7,480.00	12,594.31	7,610.00	76.28	80.93	-97.17	4,375.56	-2,049.22	1,042.09	891.73	150.36	6.931		
12,100.00	7,480.00	12,694.31	7,610.00	77.73	82.31	-97.16	4,475.55	-2,047.82	1,042.43	889.18	153.26	6.802		
12,200.00	7,480.00	12,794.31	7,610.00	79.18	83.71	-97.16	4,575.54	-2,046.42	1,042.78	886.61	156.17	6.677		
12,300.00	7,480.00	12,894.31	7,610.00	80.64	85.11	-97.16	4,675.53	-2,045.03	1,043.13	884.04	159.09	6.557		
12,400.00	7,480.00	12,994.30	7,610.00	82.11	86.51	-97.16	4,775.52	-2,043.63	1,043.47	881.46	162.01	6.441		
12,500.00	7,480.00	13,094.30	7,610.00	83.57	87.93	-97.15	4,875.51	-2,042.24	1,043.82	878.87	164.94	6.328		
12,600.00	7,480.00	13,194.30	7,610.00	85.05	89.34	-97.15	4,975.50	-2,040.84	1,044.17	876.28	167.89	6.220		
12,700.00	7,480.00	13,294.30	7,610.00	86.52	90.77	-97.15	5,075.48	-2,039.44	1,044.51	873.68	170.83	6.114		
12,800.00	7,480.00	13,394.30	7,610.00	88.00	92.19	-97.15	5,175.47	-2,038.05	1,044.86	871.07	173.79	6.012		
12,900.00	7,480.00	13,494.30	7,610.00	89.48	93.63	-97.14	5,275.46	-2,036.65	1,045.21	868.46	176.74	5.914		
13,000.00	7,480.00	13,594.30	7,610.00	90.96	95.06	-97.14	5,375.45	-2,035.25	1,045.55	865.84	179.71	5.818		
13,100.00	7,480.00	13,694.30	7,610.00	92.45	96.51	-97.14	5,475.44	-2,033.86	1,045.90	863.22	182.68	5.725		
13,200.00	7,480.00	13,794.30	7,610.00	93.94	97.95	-97.14	5,575.43	-2,032.46	1,046.24	860.59	185.66	5.635		
13,300.00	7,480.00	13,894.30	7,610.00	95.43	99.40	-97.14	5,675.42	-2,031.07	1,046.59	857.95	188.64	5.548		
13,339.08	7,480.00	13,933.38	7,610.00	96.01	99.97	-97.13	5,714.50	-2,030.52	1,046.73	856.92	189.80	5.515		
13,400.00	7,480.00	13,994.30	7,610.00	96.93	100.85	-97.14	5,775.41	-2,029.67	1,046.29	854.67	191.62	5.460		
13,500.00	7,480.00	14,094.23	7,610.00	98.46	102.31	-97.17	5,875.33	-2,028.27	1,042.80	848.18	194.62	5.358		
13,600.00	7,480.00	14,193.98	7,610.00	100.01	103.77	-97.24	5,975.07	-2,026.88	1,035.85	838.22	197.62	5.242		
13,700.00	7,480.00	14,293.42	7,610.00	101.59	105.22	-97.34	6,074.51	-2,025.49	1,025.45	824.82	200.63	5.111		
13,800.00	7,480.00	14,366.99	7,610.00	103.20	106.31	-97.44	6,148.07	-2,025.05	1,012.51	808.51	204.00	4.963		
13,900.00	7,480.00	14,465.87	7,610.00	104.82	107.78	-97.59	6,246.94	-2,026.17	997.74	790.71	207.03	4.819		

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4A-26H-P268 - OH - PLAN #4												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
14,000.00	7,480.00	14,564.17	7,610.00	106.47	109.25	-97.78	6,345.24	-2,027.29	979.56	769.51	210.05	4.663	
14,100.00	7,480.00	14,661.77	7,610.00	108.14	110.72	-98.02	6,442.83	-2,028.41	958.01	744.95	213.06	4.496	
14,192.60	7,480.00	14,751.42	7,610.00	109.70	112.06	-98.29	6,532.48	-2,029.43	935.05	719.24	215.81	4.333	
14,200.00	7,480.00	14,758.55	7,610.00	109.82	112.17	-98.30	6,539.61	-2,029.51	933.11	717.07	216.03	4.319	
14,300.00	7,480.00	14,854.95	7,610.00	111.52	113.62	-98.55	6,636.00	-2,030.61	906.79	687.79	218.99	4.141	
14,400.00	7,480.00	14,951.35	7,610.00	113.22	115.07	-98.80	6,732.40	-2,031.70	880.49	658.54	221.95	3.967	
14,500.00	7,480.00	15,047.76	7,610.00	114.93	116.53	-99.08	6,828.79	-2,032.80	854.20	629.31	224.90	3.798	
14,598.91	7,480.00	15,143.11	7,610.00	116.63	117.97	-99.36	6,924.14	-2,033.89	828.22	600.42	227.80	3.636 SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4B-26H-P268 - OH - PLAN #4												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.25	-0.13	-29.93	29.93				
100.00	100.00	100.00	100.00	0.14	0.14	-90.25	-0.13	-29.93	29.93	29.65	0.28	108.436	
200.00	200.00	200.00	200.00	0.50	0.50	-90.25	-0.13	-29.93	29.93	28.94	0.99	30.143	
300.00	300.00	300.00	300.00	0.85	0.85	-90.25	-0.13	-29.93	29.93	28.22	1.71	17.504 CC, ES	
400.00	400.00	398.95	398.93	1.21	1.20	-90.96	-0.53	-31.59	31.61	29.17	2.44	12.952	
500.00	500.00	497.67	497.52	1.57	1.55	-92.70	-1.72	-36.56	36.68	33.49	3.19	11.487	
600.00	600.00	595.92	595.40	1.93	1.90	-94.72	-3.70	-44.78	45.17	41.21	3.95	11.422	
700.00	699.98	693.69	692.45	2.28	2.27	14.44	-6.44	-56.19	55.38	50.68	4.70	11.786	
800.00	799.84	791.12	788.72	2.62	2.66	13.82	-9.94	-70.76	65.61	60.18	5.43	12.082	
900.00	899.45	888.22	884.10	2.97	3.06	13.67	-14.18	-88.44	75.83	69.67	6.16	12.301	
1,000.00	998.70	984.98	978.48	3.34	3.50	13.84	-19.16	-109.18	86.02	79.12	6.89	12.477	
1,102.07	1,099.50	1,083.41	1,073.69	3.73	3.98	14.21	-24.98	-133.44	96.38	88.73	7.64	12.608	
1,200.00	1,195.93	1,178.18	1,164.52	4.12	4.47	14.56	-31.29	-159.70	107.79	99.44	8.36	12.901	
1,300.00	1,294.40	1,277.38	1,259.33	4.52	5.02	14.79	-38.10	-188.07	120.39	111.32	9.07	13.272	
1,400.00	1,392.87	1,376.58	1,354.15	4.94	5.58	14.97	-44.91	-216.44	132.99	123.19	9.80	13.570	
1,500.00	1,491.34	1,475.78	1,448.96	5.36	6.14	15.12	-51.72	-244.81	145.59	135.05	10.54	13.813	
1,600.00	1,589.81	1,574.99	1,543.78	5.78	6.72	15.25	-58.54	-273.18	158.19	146.91	11.29	14.013	
1,700.00	1,688.27	1,674.19	1,638.59	6.21	7.30	15.36	-65.35	-301.55	170.80	158.75	12.05	14.180	
1,800.00	1,786.74	1,773.39	1,733.41	6.64	7.88	15.46	-72.16	-329.92	183.40	170.59	12.81	14.320	
1,900.00	1,885.21	1,872.59	1,828.22	7.07	8.46	15.54	-78.97	-358.28	196.01	182.43	13.57	14.440	
2,000.00	1,983.68	1,971.79	1,923.04	7.51	9.05	15.61	-85.78	-386.65	208.61	194.27	14.35	14.542	
2,100.00	2,082.15	2,071.00	2,017.85	7.95	9.64	15.67	-92.59	-415.02	221.21	206.10	15.12	14.631	
2,200.00	2,180.62	2,170.20	2,112.67	8.38	10.24	15.73	-99.41	-443.39	233.82	217.92	15.90	14.708	
2,300.00	2,279.08	2,269.40	2,207.48	8.82	10.83	15.78	-106.22	-471.76	246.43	229.75	16.68	14.776	
2,400.00	2,377.55	2,368.60	2,302.30	9.26	11.42	15.83	-113.03	-500.13	259.03	241.57	17.46	14.836	
2,500.00	2,476.02	2,467.81	2,397.11	9.70	12.02	15.87	-119.84	-528.50	271.64	253.39	18.24	14.889	
2,600.00	2,574.49	2,567.01	2,491.93	10.14	12.62	15.91	-126.65	-556.87	284.24	265.21	19.03	14.937	
2,700.00	2,672.96	2,666.21	2,586.74	10.59	13.22	15.94	-133.46	-585.24	296.85	277.03	19.82	14.979	
2,800.00	2,771.43	2,765.41	2,681.56	11.03	13.81	15.98	-140.28	-613.60	309.45	288.85	20.61	15.018	
2,900.00	2,869.89	2,864.61	2,776.37	11.47	14.41	16.01	-147.09	-641.97	322.06	300.66	21.40	15.052	
3,000.00	2,968.36	2,963.82	2,871.19	11.91	15.01	16.03	-153.90	-670.34	334.67	312.48	22.19	15.084	
3,100.00	3,066.83	3,063.02	2,966.00	12.36	15.61	16.06	-160.71	-698.71	347.27	324.29	22.98	15.113	
3,200.00	3,165.30	3,162.22	3,060.81	12.80	16.21	16.08	-167.52	-727.08	359.88	336.11	23.77	15.139	
3,300.00	3,263.77	3,261.42	3,155.63	13.25	16.81	16.10	-174.33	-755.45	372.48	347.92	24.57	15.163	
3,400.00	3,362.23	3,360.62	3,250.44	13.69	17.42	16.13	-181.14	-783.82	385.09	359.73	25.36	15.185	
3,500.00	3,460.70	3,459.83	3,345.26	14.14	18.02	16.14	-187.96	-812.19	397.70	371.54	26.15	15.206	
3,600.00	3,559.17	3,559.03	3,440.07	14.58	18.62	16.16	-194.77	-840.56	410.30	383.35	26.95	15.224	
3,700.00	3,657.64	3,658.23	3,534.89	15.03	19.22	16.18	-201.58	-868.92	422.91	395.16	27.75	15.242	
3,800.00	3,756.11	3,757.43	3,629.70	15.47	19.82	16.20	-208.39	-897.29	435.52	406.97	28.54	15.258	
3,900.00	3,854.58	3,856.64	3,724.52	15.92	20.43	16.21	-215.20	-925.66	448.12	418.78	29.34	15.273	
4,000.00	3,953.04	3,955.84	3,819.33	16.36	21.03	16.23	-222.01	-954.03	460.73	430.59	30.14	15.288	
4,100.00	4,051.51	4,055.04	3,914.15	16.81	21.63	16.24	-228.83	-982.40	473.34	442.40	30.94	15.301	
4,200.00	4,149.98	4,154.24	4,008.96	17.26	22.23	16.25	-235.64	-1,010.77	485.94	454.21	31.73	15.313	
4,300.00	4,248.45	4,253.44	4,103.78	17.70	22.84	16.26	-242.45	-1,039.14	498.55	466.02	32.53	15.325	
4,400.00	4,346.92	4,352.65	4,198.59	18.15	23.44	16.28	-249.26	-1,067.51	511.16	477.82	33.33	15.336	
4,500.00	4,445.38	4,451.85	4,293.41	18.60	24.04	16.29	-256.07	-1,095.88	523.76	489.63	34.13	15.346	
4,600.00	4,543.85	4,551.05	4,388.22	19.04	24.65	16.30	-262.88	-1,124.24	536.37	501.44	34.93	15.356	
4,700.00	4,642.32	4,650.25	4,483.04	19.49	25.25	16.31	-269.69	-1,152.61	548.97	513.25	35.73	15.365	
4,800.00	4,740.79	4,749.45	4,577.85	19.94	25.86	16.32	-276.51	-1,180.98	561.58	525.05	36.53	15.374	
4,900.00	4,839.26	4,848.66	4,672.67	20.38	26.46	16.33	-283.32	-1,209.35	574.19	536.86	37.33	15.382	
5,000.00	4,937.73	4,947.86	4,767.48	20.83	27.06	16.33	-290.13	-1,237.72	586.80	548.67	38.13	15.390	
5,100.00	5,036.19	5,047.06	4,862.30	21.28	27.67	16.34	-296.94	-1,266.09	599.40	560.47	38.93	15.397	

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 4E-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 4E-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 #3	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
5,200.00	5,134.66	5,146.26	4,957.11	21.73	28.27	16.35	-303.75	-1,294.46	612.01	572.28	39.73	15.404	
5,300.00	5,233.13	5,245.47	5,051.93	22.17	28.87	16.36	-310.56	-1,322.83	624.62	584.08	40.53	15.411	
5,400.00	5,331.60	5,344.67	5,146.74	22.62	29.48	16.37	-317.38	-1,351.19	637.22	595.89	41.33	15.417	
5,500.00	5,430.07	5,443.87	5,241.56	23.07	30.08	16.37	-324.19	-1,379.56	649.83	607.70	42.13	15.423	
5,600.00	5,528.54	5,543.07	5,336.37	23.52	30.69	16.38	-331.00	-1,407.93	662.44	619.50	42.93	15.429	
5,700.00	5,627.00	5,642.27	5,431.19	23.96	31.29	16.39	-337.81	-1,436.30	675.04	631.31	43.74	15.435	
5,800.00	5,725.47	5,741.48	5,526.00	24.41	31.90	16.39	-344.62	-1,464.67	687.65	643.11	44.54	15.440	
5,900.00	5,823.94	5,840.68	5,620.82	24.86	32.50	16.40	-351.43	-1,493.04	700.26	654.92	45.34	15.445	
6,000.00	5,922.41	5,939.88	5,715.63	25.31	33.11	16.41	-358.25	-1,521.41	712.86	666.72	46.14	15.450	
6,100.00	6,020.88	6,039.08	5,810.45	25.75	33.71	16.41	-365.06	-1,549.78	725.47	678.53	46.94	15.454	
6,200.00	6,119.34	6,138.28	5,905.26	26.20	34.31	16.42	-371.87	-1,578.15	738.08	690.33	47.74	15.459	
6,300.00	6,217.81	6,237.49	6,000.08	26.65	34.92	16.42	-378.68	-1,606.51	750.68	702.14	48.55	15.463	
6,400.00	6,316.28	6,336.69	6,094.89	27.10	35.52	16.43	-385.49	-1,634.88	763.29	713.94	49.35	15.467	
6,500.00	6,414.75	6,435.89	6,189.71	27.54	36.13	16.43	-392.30	-1,663.25	775.90	725.75	50.15	15.471	
6,600.00	6,513.22	6,535.09	6,284.52	27.99	36.73	16.44	-399.11	-1,691.62	788.50	737.55	50.95	15.475	
6,700.00	6,611.69	6,634.29	6,379.34	28.44	37.34	16.44	-405.93	-1,719.99	801.11	749.35	51.76	15.479	
6,800.00	6,710.15	6,733.50	6,474.15	28.89	37.94	16.45	-412.74	-1,748.36	813.72	761.16	52.56	15.482	
6,818.10	6,727.97	6,751.45	6,491.31	28.97	38.05	16.45	-413.97	-1,753.49	816.00	763.30	52.70	15.483	
6,850.00	6,759.42	6,783.08	6,521.54	29.11	38.24	2.25	-416.14	-1,762.54	820.08	767.13	52.95	15.488	
6,900.00	6,808.74	6,832.48	6,568.75	29.32	38.55	-21.24	-419.53	-1,776.66	826.71	773.40	53.30	15.510	
6,950.00	6,857.89	6,881.44	6,615.55	29.51	38.84	-40.26	-422.90	-1,790.67	833.63	780.02	53.61	15.549	
7,000.00	6,906.63	6,929.74	6,661.71	29.69	39.14	-53.27	-426.21	-1,804.48	840.92	787.03	53.88	15.606	
7,050.00	6,954.71	6,977.13	6,707.01	29.85	39.43	-61.99	-429.47	-1,818.03	848.65	794.52	54.13	15.679	
7,100.00	7,001.91	7,026.65	6,754.36	30.00	39.73	-68.18	-432.60	-1,832.19	856.91	802.54	54.38	15.759	
7,150.00	7,048.00	7,083.83	6,809.13	30.13	40.06	-72.82	-432.29	-1,848.55	865.40	810.70	54.70	15.820	
7,200.00	7,092.75	7,143.49	6,866.02	30.25	40.39	-76.34	-426.50	-1,865.48	873.90	818.85	55.05	15.874	
7,250.00	7,135.95	7,205.71	6,924.54	30.36	40.70	-79.09	-414.58	-1,882.85	882.29	826.88	55.41	15.922	
7,300.00	7,177.37	7,270.55	6,984.05	30.45	40.98	-81.27	-395.89	-1,900.45	890.43	834.66	55.77	15.967	
7,350.00	7,216.83	7,337.97	7,043.66	30.53	41.24	-83.00	-369.86	-1,918.03	898.20	842.09	56.11	16.009	
7,400.00	7,254.13	7,407.83	7,102.32	30.60	41.48	-84.37	-336.12	-1,935.25	905.45	849.02	56.42	16.048	
7,450.00	7,289.09	7,479.89	7,158.76	30.66	41.68	-85.42	-294.52	-1,951.73	912.06	855.35	56.71	16.083	
7,500.00	7,321.53	7,553.81	7,211.60	30.70	41.85	-86.18	-245.23	-1,967.08	917.92	860.95	56.97	16.111	
7,550.00	7,351.30	7,629.08	7,259.44	30.74	41.98	-86.67	-188.83	-1,980.87	922.94	865.71	57.23	16.128	
7,600.00	7,378.26	7,705.16	7,300.98	30.77	42.09	-86.91	-126.26	-1,992.73	927.05	869.56	57.49	16.127	
7,650.00	7,402.27	7,781.40	7,335.16	30.80	42.16	-86.92	-58.85	-2,002.35	930.21	872.44	57.77	16.102	
7,700.00	7,423.21	7,857.15	7,361.24	30.82	42.21	-86.71	11.86	-2,009.52	932.43	874.33	58.09	16.050	
7,750.00	7,440.99	7,931.81	7,378.91	30.83	42.24	-86.31	84.21	-2,014.16	933.73	875.26	58.47	15.970	
7,800.00	7,455.51	8,004.83	7,388.23	30.85	42.26	-85.73	156.56	-2,016.31	934.16	875.28	58.89	15.863	
7,850.00	7,466.72	8,069.02	7,390.00	30.88	42.28	-85.12	220.71	-2,016.28	933.88	874.54	59.34	15.738	
7,900.00	7,474.54	8,118.39	7,390.00	30.91	42.30	-84.76	270.07	-2,015.85	933.70	873.93	59.76	15.623	
7,903.11	7,474.91	8,121.48	7,390.00	30.91	42.30	-84.75	273.16	-2,015.82	933.70	873.91	59.79	15.616	
7,950.00	7,478.95	8,168.18	7,390.00	30.95	42.32	-84.54	319.87	-2,015.42	933.82	873.63	60.19	15.516	
7,989.08	7,480.00	8,207.25	7,390.00	31.00	42.35	-84.47	358.93	-2,015.07	934.09	873.58	60.50	15.439	
8,000.00	7,480.00	8,218.16	7,390.00	31.02	42.36	-84.47	369.84	-2,014.98	934.18	873.58	60.60	15.416	
8,100.00	7,480.00	8,318.16	7,390.00	31.22	42.47	-84.48	469.84	-2,014.11	935.05	873.54	61.51	15.202	
8,200.00	7,480.00	8,418.16	7,390.00	31.54	42.62	-84.48	569.83	-2,013.23	935.92	873.35	62.56	14.959	
8,300.00	7,480.00	8,518.15	7,390.00	31.98	42.81	-84.49	669.82	-2,012.36	936.79	873.03	63.76	14.693	
8,400.00	7,480.00	8,618.15	7,390.00	32.54	43.06	-84.49	769.81	-2,011.49	937.65	872.58	65.08	14.408	
8,500.00	7,480.00	8,718.15	7,390.00	33.19	43.36	-84.50	869.81	-2,010.62	938.52	872.00	66.52	14.108	
8,600.00	7,480.00	8,818.14	7,390.00	33.93	43.72	-84.50	969.80	-2,009.74	939.39	871.31	68.08	13.798	
8,700.00	7,480.00	8,918.14	7,390.00	34.73	44.13	-84.51	1,069.79	-2,008.87	940.26	870.51	69.75	13.481	
8,800.00	7,480.00	9,018.13	7,390.00	35.58	44.61	-84.51	1,169.78	-2,008.00	941.13	869.62	71.51	13.161	

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 4E-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 4E-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 #3	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						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	7,480.00	9,118.13	7,390.00	36.49	45.14	-84.52	1,269.78	-2,007.13	942.00	868.63	73.36	12.840	
9,000.00	7,480.00	9,218.13	7,390.00	37.45	45.74	-84.52	1,369.77	-2,006.25	942.87	867.56	75.30	12.521	
9,100.00	7,480.00	9,318.12	7,390.00	38.45	46.40	-84.53	1,469.76	-2,005.38	943.74	866.41	77.32	12.205	
9,200.00	7,480.00	9,418.12	7,390.00	39.49	47.12	-84.53	1,569.75	-2,004.51	944.60	865.19	79.41	11.895	
9,300.00	7,480.00	9,518.12	7,390.00	40.56	47.89	-84.54	1,669.75	-2,003.64	945.47	863.90	81.57	11.591	
9,400.00	7,480.00	9,618.11	7,390.00	41.66	48.71	-84.54	1,769.74	-2,002.76	946.34	862.55	83.79	11.294	
9,500.00	7,480.00	9,718.11	7,390.00	42.79	49.58	-84.55	1,869.73	-2,001.89	947.21	861.14	86.07	11.005	
9,600.00	7,480.00	9,818.10	7,390.00	43.95	50.50	-84.55	1,969.72	-2,001.02	948.08	859.68	88.40	10.725	
9,700.00	7,480.00	9,918.10	7,390.00	45.13	51.46	-84.56	2,069.72	-2,000.14	948.95	858.17	90.78	10.454	
9,800.00	7,480.00	10,018.10	7,390.00	46.34	52.46	-84.56	2,169.71	-1,999.27	949.82	856.62	93.20	10.191	
9,900.00	7,480.00	10,118.09	7,390.00	47.57	53.50	-84.57	2,269.70	-1,998.40	950.68	855.02	95.66	9.938	
10,000.00	7,480.00	10,218.09	7,390.00	48.82	54.57	-84.57	2,369.69	-1,997.53	951.55	853.39	98.17	9.693	
10,100.00	7,480.00	10,318.08	7,390.00	50.08	55.66	-84.58	2,469.68	-1,996.65	952.42	851.72	100.70	9.458	
10,200.00	7,480.00	10,418.08	7,390.00	51.36	56.79	-84.58	2,569.68	-1,995.78	953.29	850.02	103.28	9.231	
10,300.00	7,480.00	10,518.08	7,390.00	52.66	57.94	-84.59	2,669.67	-1,994.91	954.16	848.28	105.88	9.012	
10,400.00	7,480.00	10,618.07	7,390.00	53.97	59.11	-84.59	2,769.66	-1,994.04	955.03	846.52	108.51	8.802	
10,500.00	7,480.00	10,718.07	7,390.00	55.29	60.31	-84.60	2,869.65	-1,993.16	955.90	844.73	111.16	8.599	
10,600.00	7,480.00	10,818.07	7,390.00	56.63	61.53	-84.60	2,969.65	-1,992.29	956.77	842.92	113.84	8.404	
10,700.00	7,480.00	10,918.06	7,390.00	57.98	62.76	-84.61	3,069.64	-1,991.42	957.64	841.09	116.55	8.217	
10,800.00	7,480.00	11,018.06	7,390.00	59.34	64.01	-84.61	3,169.63	-1,990.55	958.50	839.23	119.27	8.036	
10,900.00	7,480.00	11,118.05	7,390.00	60.71	65.28	-84.62	3,269.62	-1,989.67	959.37	837.36	122.02	7.863	
11,000.00	7,480.00	11,218.05	7,390.00	62.09	66.56	-84.62	3,369.62	-1,988.80	960.24	835.46	124.78	7.696	
11,100.00	7,480.00	11,318.05	7,390.00	63.47	67.86	-84.63	3,469.61	-1,987.93	961.11	833.55	127.56	7.535	
11,200.00	7,480.00	11,418.04	7,390.00	64.87	69.17	-84.63	3,569.60	-1,987.06	961.98	831.62	130.36	7.380	
11,300.00	7,480.00	11,518.04	7,390.00	66.27	70.49	-84.64	3,669.59	-1,986.18	962.85	829.68	133.17	7.230	
11,400.00	7,480.00	11,618.04	7,390.00	67.68	71.82	-84.64	3,769.59	-1,985.31	963.72	827.72	135.99	7.087	
11,500.00	7,480.00	11,718.03	7,390.00	69.10	73.16	-84.65	3,869.58	-1,984.44	964.59	825.75	138.83	6.948	
11,600.00	7,480.00	11,818.03	7,390.00	70.53	74.52	-84.65	3,969.57	-1,983.57	965.45	823.77	141.68	6.814	
11,700.00	7,480.00	11,918.02	7,390.00	71.96	75.88	-84.66	4,069.56	-1,982.69	966.32	821.78	144.55	6.685	
11,800.00	7,480.00	12,018.02	7,390.00	73.39	77.25	-84.66	4,169.56	-1,981.82	967.19	819.77	147.42	6.561	
11,900.00	7,480.00	12,118.02	7,390.00	74.83	78.63	-84.67	4,269.55	-1,980.95	968.06	817.75	150.31	6.441	
12,000.00	7,480.00	12,218.01	7,390.00	76.28	80.01	-84.67	4,369.54	-1,980.07	968.93	815.73	153.20	6.324	
12,100.00	7,480.00	12,318.01	7,390.00	77.73	81.41	-84.67	4,469.53	-1,979.20	969.80	813.69	156.11	6.212	
12,200.00	7,480.00	12,418.00	7,390.00	79.18	82.81	-84.68	4,569.52	-1,978.33	970.67	811.65	159.02	6.104	
12,300.00	7,480.00	12,518.00	7,390.00	80.64	84.21	-84.68	4,669.52	-1,977.46	971.54	809.59	161.94	5.999	
12,400.00	7,480.00	12,618.00	7,390.00	82.11	85.63	-84.69	4,769.51	-1,976.58	972.41	807.53	164.87	5.898	
12,500.00	7,480.00	12,717.99	7,390.00	83.57	87.05	-84.69	4,869.50	-1,975.71	973.27	805.46	167.81	5.800	
12,600.00	7,480.00	12,817.99	7,390.00	85.05	88.47	-84.70	4,969.49	-1,974.84	974.14	803.39	170.75	5.705	
12,700.00	7,480.00	12,917.99	7,390.00	86.52	89.90	-84.70	5,069.49	-1,973.97	975.01	801.31	173.71	5.613	
12,800.00	7,480.00	13,017.98	7,390.00	88.00	91.34	-84.71	5,169.48	-1,973.09	975.88	799.22	176.66	5.524	
12,900.00	7,480.00	13,117.98	7,390.00	89.48	92.78	-84.71	5,269.47	-1,972.22	976.75	797.12	179.63	5.438	
13,000.00	7,480.00	13,217.97	7,390.00	90.96	94.22	-84.72	5,369.46	-1,971.35	977.62	795.02	182.60	5.354	
13,100.00	7,480.00	13,317.97	7,390.00	92.45	95.67	-84.72	5,469.46	-1,970.48	978.49	792.92	185.57	5.273	
13,200.00	7,480.00	13,417.97	7,390.00	93.94	97.12	-84.73	5,569.45	-1,969.60	979.36	790.80	188.55	5.194	
13,300.00	7,480.00	13,517.96	7,390.00	95.43	98.58	-84.73	5,669.44	-1,968.73	980.23	788.69	191.54	5.118	
13,339.08	7,480.00	13,557.04	7,390.00	96.01	99.15	-84.73	5,708.52	-1,968.39	980.57	787.86	192.71	5.088	
13,400.00	7,480.00	13,617.96	7,390.00	96.93	100.04	-84.73	5,769.43	-1,967.86	980.45	785.92	194.53	5.040	
13,500.00	7,480.00	13,717.91	7,390.00	98.46	101.50	-84.71	5,869.38	-1,966.99	977.46	779.91	197.55	4.948	
13,600.00	7,480.00	13,817.69	7,390.00	100.01	102.96	-84.66	5,969.16	-1,966.11	971.01	770.42	200.59	4.841	
13,700.00	7,480.00	13,917.19	7,390.00	101.59	104.43	-84.59	6,068.65	-1,965.25	961.09	757.44	203.65	4.719	
13,800.00	7,480.00	14,000.00	7,390.00	103.20	105.65	-84.51	6,151.46	-1,965.17	948.50	741.52	206.99	4.582	
13,900.00	7,480.00	14,064.18	7,390.00	104.82	106.63	-84.43	6,215.59	-1,967.63	935.94	725.45	210.50	4.446	

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 4E-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 4E-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 #3	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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor				
14,000.00	7,480.00	14,152.24	7,390.00	106.47	107.99	-84.33	6,303.51	-1,972.70	922.16	708.43	213.73	4.315				
14,100.00	7,480.00	14,250.74	7,390.00	108.14	109.52	-84.19	6,401.84	-1,978.36	905.02	688.12	216.91	4.172				
14,192.60	7,480.00	14,341.37	7,390.00	109.70	110.92	-84.02	6,492.32	-1,983.58	886.11	666.26	219.85	4.031				
14,200.00	7,480.00	14,348.58	7,390.00	109.82	111.03	-84.01	6,499.52	-1,983.99	884.48	664.40	220.08	4.019				
14,300.00	7,480.00	14,446.11	7,390.00	111.52	112.54	-83.86	6,596.88	-1,989.60	862.49	639.23	223.26	3.863				
14,400.00	7,480.00	14,543.63	7,390.00	113.22	114.06	-83.70	6,694.25	-1,995.21	840.50	614.06	226.45	3.712				
14,500.00	7,480.00	14,641.16	7,390.00	114.93	115.58	-83.53	6,791.61	-2,000.82	818.53	588.89	229.63	3.564				
14,598.91	7,480.00	14,737.62	7,390.00	116.63	117.08	-83.35	6,887.91	-2,006.37	796.79	564.00	232.79	3.423 SF				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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	-90.25	-0.09	-19.86	19.86					
100.00	100.00	100.00	100.00	0.14	0.14	-90.25	-0.09	-19.86	19.86	19.58	0.28	71.953		
200.00	200.00	200.00	200.00	0.50	0.50	-90.25	-0.09	-19.86	19.86	18.87	0.99	20.001		
300.00	300.00	300.00	300.00	0.85	0.85	-90.25	-0.09	-19.86	19.86	18.15	1.71	11.615		
400.00	400.00	400.00	400.00	1.21	1.21	-90.25	-0.09	-19.86	19.86	17.43	2.43	8.184	CC, ES	
500.00	500.00	499.31	499.29	1.57	1.56	-91.81	-0.68	-21.48	21.50	18.35	3.15	6.827		
600.00	600.00	598.39	598.23	1.93	1.90	-95.33	-2.45	-26.31	26.48	22.59	3.89	6.813		
700.00	699.98	697.15	696.61	2.28	2.25	12.23	-5.40	-34.31	33.20	28.58	4.62	7.184		
800.00	799.84	795.68	794.42	2.62	2.62	10.27	-9.49	-45.47	39.94	34.59	5.35	7.467		
900.00	899.45	893.98	891.53	2.97	3.00	8.92	-14.74	-59.74	46.66	40.58	6.08	7.673		
1,000.00	998.70	992.06	987.85	3.34	3.41	7.94	-21.11	-77.08	53.34	46.52	6.81	7.829		
1,102.07	1,099.50	1,091.93	1,085.23	3.73	3.85	7.20	-28.76	-97.92	60.10	52.54	7.56	7.949		
1,200.00	1,195.93	1,188.26	1,178.42	4.12	4.31	6.53	-37.17	-120.80	67.95	59.68	8.27	8.220		
1,300.00	1,294.40	1,287.88	1,274.63	4.52	4.80	5.93	-46.07	-145.05	76.61	67.63	8.98	8.534		
1,400.00	1,392.87	1,387.51	1,370.85	4.94	5.31	5.46	-54.98	-169.29	85.27	75.57	9.70	8.793		
1,500.00	1,491.34	1,487.13	1,467.06	5.36	5.82	5.07	-63.88	-193.54	93.94	83.52	10.43	9.009		
1,600.00	1,589.81	1,586.75	1,563.28	5.78	6.34	4.75	-72.79	-217.78	102.62	91.45	11.16	9.192		
1,700.00	1,688.27	1,686.37	1,659.49	6.21	6.86	4.47	-81.70	-242.03	111.29	99.39	11.90	9.349		
1,800.00	1,786.74	1,785.99	1,755.71	6.64	7.39	4.24	-90.60	-266.27	119.97	107.32	12.65	9.483		
1,900.00	1,885.21	1,885.61	1,851.92	7.07	7.92	4.04	-99.51	-290.52	128.65	115.25	13.40	9.600		
2,000.00	1,983.68	1,985.24	1,948.14	7.51	8.45	3.86	-108.41	-314.76	137.34	123.18	14.15	9.703		
2,100.00	2,082.15	2,084.86	2,044.35	7.95	8.99	3.71	-117.32	-339.01	146.02	131.11	14.91	9.794		
2,200.00	2,180.62	2,184.48	2,140.57	8.38	9.53	3.57	-126.22	-363.25	154.71	139.04	15.67	9.874		
2,300.00	2,279.08	2,284.10	2,236.78	8.82	10.06	3.45	-135.13	-387.50	163.39	146.96	16.43	9.946		
2,400.00	2,377.55	2,383.72	2,333.00	9.26	10.60	3.34	-144.04	-411.74	172.08	154.89	17.19	10.010		
2,500.00	2,476.02	2,483.34	2,429.21	9.70	11.14	3.24	-152.94	-435.99	180.76	162.81	17.95	10.068		
2,600.00	2,574.49	2,582.96	2,525.43	10.14	11.69	3.15	-161.85	-460.23	189.45	170.73	18.72	10.121		
2,700.00	2,672.96	2,682.59	2,621.64	10.59	12.23	3.06	-170.75	-484.48	198.14	178.65	19.48	10.169		
2,800.00	2,771.43	2,782.21	2,717.86	11.03	12.77	2.99	-179.66	-508.72	206.82	186.57	20.25	10.213		
2,900.00	2,869.89	2,881.83	2,814.07	11.47	13.32	2.92	-188.57	-532.97	215.51	194.49	21.02	10.253		
3,000.00	2,968.36	2,981.45	2,910.28	11.91	13.86	2.85	-197.47	-557.21	224.20	202.41	21.79	10.290		
3,100.00	3,066.83	3,081.07	3,006.50	12.36	14.41	2.79	-206.38	-581.46	232.89	210.33	22.56	10.324		
3,200.00	3,165.30	3,180.69	3,102.71	12.80	14.95	2.74	-215.28	-605.71	241.58	218.25	23.33	10.356		
3,300.00	3,263.77	3,280.32	3,198.93	13.25	15.50	2.69	-224.19	-629.95	250.27	226.17	24.10	10.385		
3,400.00	3,362.23	3,379.94	3,295.14	13.69	16.04	2.64	-233.10	-654.20	258.96	234.09	24.87	10.413		
3,500.00	3,460.70	3,479.56	3,391.36	14.14	16.59	2.59	-242.00	-678.44	267.65	242.01	25.64	10.438		
3,600.00	3,559.17	3,579.18	3,487.57	14.58	17.14	2.55	-250.91	-702.69	276.34	249.92	26.41	10.462		
3,700.00	3,657.64	3,678.80	3,583.79	15.03	17.68	2.51	-259.81	-726.93	285.03	257.84	27.19	10.484		
3,800.00	3,756.11	3,778.42	3,680.00	15.47	18.23	2.48	-268.72	-751.18	293.72	265.76	27.96	10.505		
3,900.00	3,854.58	3,878.04	3,776.22	15.92	18.78	2.44	-277.63	-775.42	302.41	273.67	28.73	10.525		
4,000.00	3,953.04	3,977.67	3,872.43	16.36	19.33	2.41	-286.53	-799.67	311.10	281.59	29.51	10.543		
4,100.00	4,051.51	4,077.29	3,968.65	16.81	19.88	2.38	-295.44	-823.91	319.79	289.51	30.28	10.561		
4,200.00	4,149.98	4,176.91	4,064.86	17.26	20.42	2.35	-304.34	-848.16	328.48	297.42	31.06	10.577		
4,300.00	4,248.45	4,276.53	4,161.08	17.70	20.97	2.32	-313.25	-872.40	337.17	305.34	31.83	10.593		
4,400.00	4,346.92	4,376.15	4,257.29	18.15	21.52	2.29	-322.16	-896.65	345.86	313.25	32.60	10.608		
4,500.00	4,445.38	4,475.77	4,353.51	18.60	22.07	2.27	-331.06	-920.89	354.55	321.17	33.38	10.622		
4,600.00	4,543.85	4,575.40	4,449.72	19.04	22.62	2.24	-339.97	-945.14	363.24	329.08	34.16	10.635		
4,700.00	4,642.32	4,675.02	4,545.94	19.49	23.17	2.22	-348.87	-969.38	371.93	337.00	34.93	10.648		
4,800.00	4,740.79	4,774.64	4,642.15	19.94	23.71	2.20	-357.78	-993.63	380.62	344.91	35.71	10.660		
4,900.00	4,839.26	4,874.26	4,738.37	20.38	24.26	2.18	-366.69	-1,017.87	389.31	352.83	36.48	10.671		
5,000.00	4,937.73	4,973.88	4,834.58	20.83	24.81	2.16	-375.59	-1,042.12	398.00	360.74	37.26	10.682		
5,100.00	5,036.19	5,073.50	4,930.80	21.28	25.36	2.14	-384.50	-1,066.36	406.69	368.66	38.03	10.693		

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 4E-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 4E-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 #3	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		
5,200.00	5,134.66	5,173.12	5,027.01	21.73	25.91	2.12	-393.40	-1,090.61	415.38	376.57	38.81	10.703		
5,300.00	5,233.13	5,272.75	5,123.23	22.17	26.46	2.10	-402.31	-1,114.85	424.07	384.49	39.59	10.712		
5,400.00	5,331.60	5,372.37	5,219.44	22.62	27.01	2.09	-411.21	-1,139.10	432.76	392.40	40.36	10.722		
5,500.00	5,430.07	5,471.99	5,315.66	23.07	27.56	2.07	-420.12	-1,163.34	441.46	400.31	41.14	10.730		
5,600.00	5,528.54	5,571.61	5,411.87	23.52	28.11	2.05	-429.03	-1,187.59	450.15	408.23	41.92	10.739		
5,700.00	5,627.00	5,671.23	5,508.09	23.96	28.66	2.04	-437.93	-1,211.83	458.84	416.14	42.69	10.747		
5,800.00	5,725.47	5,770.85	5,604.30	24.41	29.21	2.02	-446.84	-1,236.08	467.53	424.06	43.47	10.755		
5,900.00	5,823.94	5,870.48	5,700.52	24.86	29.76	2.01	-455.74	-1,260.32	476.22	431.97	44.25	10.762		
6,000.00	5,922.41	5,970.10	5,796.73	25.31	30.31	2.00	-464.65	-1,284.57	484.91	439.89	45.03	10.770		
6,100.00	6,020.88	6,069.72	5,892.95	25.75	30.85	1.98	-473.56	-1,308.82	493.60	447.80	45.80	10.777		
6,200.00	6,119.34	6,169.34	5,989.16	26.20	31.40	1.97	-482.46	-1,333.06	502.29	455.71	46.58	10.783		
6,300.00	6,217.81	6,268.96	6,085.38	26.65	31.95	1.96	-491.37	-1,357.31	510.98	463.63	47.36	10.790		
6,400.00	6,316.28	6,368.58	6,181.59	27.10	32.50	1.95	-500.27	-1,381.55	519.68	471.54	48.14	10.796		
6,500.00	6,414.75	6,468.20	6,277.81	27.54	33.05	1.94	-509.18	-1,405.80	528.37	479.45	48.91	10.802		
6,600.00	6,513.22	6,567.83	6,374.02	27.99	33.60	1.92	-518.09	-1,430.04	537.06	487.37	49.69	10.808		
6,700.00	6,611.69	6,667.45	6,470.24	28.44	34.15	1.91	-526.99	-1,454.29	545.75	495.28	50.47	10.814		
6,800.00	6,710.15	6,767.07	6,566.45	28.89	34.70	1.90	-535.90	-1,478.53	554.44	503.19	51.25	10.819		
6,818.10	6,727.97	6,785.10	6,583.86	28.97	34.80	1.90	-537.51	-1,482.92	556.01	504.63	51.39	10.820		
6,850.00	6,759.42	6,816.85	6,614.53	29.11	34.98	-12.42	-540.35	-1,490.65	559.02	507.39	51.63	10.827		
6,900.00	6,808.74	6,866.37	6,662.36	29.32	35.25	-36.12	-544.78	-1,502.70	564.68	512.68	52.00	10.859		
6,950.00	6,857.89	6,915.40	6,709.71	29.51	35.52	-55.38	-549.16	-1,514.63	571.54	519.17	52.36	10.915		
7,000.00	6,906.63	6,971.27	6,763.71	29.69	35.83	-68.74	-553.46	-1,528.27	579.51	526.72	52.78	10.979		
7,050.00	6,954.71	7,035.73	6,826.12	29.85	36.16	-77.72	-553.49	-1,544.30	587.68	534.42	53.26	11.035		
7,100.00	7,001.91	7,101.76	6,889.72	30.00	36.47	-83.85	-547.53	-1,560.95	595.80	542.11	53.69	11.098		
7,150.00	7,048.00	7,169.28	6,953.83	30.13	36.76	-88.14	-535.21	-1,578.06	603.76	549.70	54.06	11.168		
7,200.00	7,092.75	7,238.18	7,017.72	30.25	37.02	-91.22	-516.27	-1,595.46	611.46	557.09	54.36	11.247		
7,250.00	7,135.95	7,308.29	7,080.53	30.36	37.25	-93.44	-490.56	-1,612.95	618.81	564.21	54.60	11.334		
7,300.00	7,177.37	7,379.43	7,141.38	30.45	37.45	-95.00	-458.10	-1,630.27	625.73	570.96	54.77	11.425		
7,350.00	7,216.83	7,451.36	7,199.34	30.53	37.62	-96.06	-419.07	-1,647.21	632.16	577.27	54.89	11.517		
7,400.00	7,254.13	7,523.81	7,253.52	30.60	37.76	-96.69	-373.85	-1,663.49	638.04	583.06	54.98	11.605		
7,450.00	7,289.09	7,596.50	7,303.07	30.66	37.87	-96.98	-322.99	-1,678.88	643.35	588.27	55.07	11.682		
7,500.00	7,321.53	7,669.13	7,347.27	30.70	37.96	-96.97	-267.19	-1,693.16	648.05	592.86	55.19	11.741		
7,550.00	7,351.30	7,741.41	7,385.53	30.74	38.03	-96.70	-207.29	-1,706.13	652.16	596.79	55.37	11.779		
7,600.00	7,378.26	7,813.06	7,417.44	30.77	38.08	-96.21	-144.21	-1,717.63	655.68	600.06	55.62	11.789		
7,650.00	7,402.27	7,883.82	7,442.76	30.80	38.12	-95.52	-78.91	-1,727.55	658.65	602.70	55.95	11.773		
7,700.00	7,423.21	7,953.48	7,461.43	30.82	38.16	-94.67	-12.35	-1,735.84	661.09	604.73	56.36	11.729		
7,750.00	7,440.99	8,021.84	7,473.55	30.83	38.19	-93.67	54.58	-1,742.46	663.08	606.21	56.86	11.661		
7,800.00	7,455.51	8,088.77	7,479.36	30.85	38.22	-92.55	121.04	-1,747.43	664.64	607.22	57.42	11.575		
7,850.00	7,466.72	8,145.56	7,480.00	30.88	38.26	-91.54	177.74	-1,750.57	666.02	608.00	58.02	11.480		
7,900.00	7,474.54	8,194.89	7,480.00	30.91	38.31	-90.81	227.00	-1,753.15	668.07	609.50	58.57	11.407		
7,950.00	7,478.95	8,244.61	7,480.00	30.95	38.36	-90.28	276.65	-1,755.75	670.79	611.71	59.09	11.353		
7,989.08	7,480.00	8,283.59	7,480.00	31.00	38.42	-90.00	315.57	-1,757.79	673.34	613.89	59.46	11.325		
8,000.00	7,480.00	8,294.48	7,480.00	31.02	38.44	-90.00	326.45	-1,758.36	674.11	614.55	59.55	11.319		
8,100.00	7,480.00	8,394.24	7,480.00	31.22	38.64	-90.00	426.07	-1,763.58	681.08	620.51	60.57	11.244		
8,200.00	7,480.00	8,493.99	7,480.00	31.54	38.90	-90.00	525.69	-1,768.80	688.06	626.32	61.74	11.145		
8,300.00	7,480.00	8,593.75	7,480.00	31.98	39.23	-90.00	625.31	-1,774.02	695.03	631.99	63.04	11.025		
8,400.00	7,480.00	8,693.50	7,480.00	32.54	39.64	-90.00	724.93	-1,779.25	702.01	637.53	64.48	10.887		
8,500.00	7,480.00	8,793.26	7,480.00	33.19	40.13	-90.00	824.55	-1,784.47	708.98	642.94	66.04	10.735		
8,600.00	7,480.00	8,893.02	7,480.00	33.93	40.69	-90.00	924.17	-1,789.69	715.96	648.24	67.72	10.573		
8,700.00	7,480.00	8,992.77	7,480.00	34.73	41.33	-90.00	1,023.79	-1,794.91	722.94	653.44	69.50	10.402		
8,800.00	7,480.00	9,092.53	7,480.00	35.58	42.05	-90.00	1,123.41	-1,800.13	729.91	658.53	71.38	10.226		
8,900.00	7,480.00	9,192.29	7,480.00	36.49	42.83	-90.00	1,223.03	-1,805.35	736.89	663.54	73.35	10.046		

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 4E-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 4E-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 #3	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	7,480.00	9,292.04	7,480.00	37.45	43.68	-90.00	1,322.65	-1,810.57	743.86	668.46	75.40	9.865		
9,100.00	7,480.00	9,391.80	7,480.00	38.45	44.58	-90.00	1,422.27	-1,815.79	750.84	673.30	77.53	9.684		
9,200.00	7,480.00	9,499.47	7,480.00	39.49	45.61	-90.00	1,529.80	-1,821.27	757.70	678.05	79.64	9.513		
9,300.00	7,480.00	9,628.00	7,480.00	40.56	46.85	-90.00	1,658.29	-1,823.85	761.36	679.84	81.52	9.340		
9,400.00	7,480.00	9,727.98	7,480.00	41.66	47.83	-90.00	1,758.27	-1,824.27	763.53	679.74	83.80	9.112		
9,500.00	7,480.00	9,827.95	7,480.00	42.79	48.86	-90.00	1,858.24	-1,824.70	765.70	679.58	86.13	8.890		
9,600.00	7,480.00	9,927.93	7,480.00	43.95	49.92	-90.00	1,958.22	-1,825.12	767.87	679.36	88.51	8.675		
9,700.00	7,480.00	10,027.91	7,480.00	45.13	51.01	-90.00	2,058.20	-1,825.55	770.05	679.10	90.94	8.467		
9,800.00	7,480.00	10,127.88	7,480.00	46.34	52.13	-90.00	2,158.17	-1,825.97	772.22	678.80	93.41	8.267		
9,900.00	7,480.00	10,227.86	7,480.00	47.57	53.28	-90.00	2,258.15	-1,826.40	774.39	678.46	95.93	8.073		
10,000.00	7,480.00	10,327.84	7,480.00	48.82	54.45	-90.00	2,358.12	-1,826.82	776.56	678.08	98.48	7.886		
10,100.00	7,480.00	10,427.81	7,480.00	50.08	55.64	-90.00	2,458.10	-1,827.25	778.73	677.66	101.06	7.705		
10,200.00	7,480.00	10,527.79	7,480.00	51.36	56.86	-90.00	2,558.07	-1,827.68	780.90	677.22	103.68	7.532		
10,300.00	7,480.00	10,627.77	7,480.00	52.66	58.09	-90.00	2,658.05	-1,828.10	783.07	676.74	106.33	7.365		
10,400.00	7,480.00	10,727.74	7,480.00	53.97	59.35	-90.00	2,758.02	-1,828.53	785.24	676.24	109.00	7.204		
10,500.00	7,480.00	10,827.72	7,480.00	55.29	60.61	-90.00	2,858.00	-1,828.95	787.41	675.71	111.70	7.050		
10,600.00	7,480.00	10,944.82	7,480.00	56.63	62.10	-90.00	2,975.09	-1,827.83	788.14	674.05	114.09	6.908		
10,700.00	7,480.00	11,044.82	7,480.00	57.98	63.37	-90.00	3,075.07	-1,826.08	788.14	671.33	116.82	6.747		
10,702.68	7,480.00	11,047.50	7,480.00	58.02	63.41	-90.00	3,077.76	-1,826.04	788.14	671.25	116.89	6.743		
10,800.00	7,480.00	11,144.82	7,480.00	59.34	64.66	-90.00	3,175.06	-1,824.34	788.14	668.58	119.56	6.592		
10,900.00	7,480.00	11,244.82	7,480.00	60.71	65.96	-90.00	3,275.04	-1,822.59	788.14	665.82	122.32	6.443		
11,000.00	7,480.00	11,344.82	7,480.00	62.09	67.27	-90.00	3,375.03	-1,820.85	788.14	663.04	125.10	6.300		
11,100.00	7,480.00	11,444.82	7,480.00	63.47	68.59	-90.00	3,475.01	-1,819.10	788.14	660.24	127.90	6.162		
11,200.00	7,480.00	11,544.82	7,480.00	64.87	69.92	-90.00	3,575.00	-1,817.36	788.14	657.43	130.71	6.030		
11,300.00	7,480.00	11,644.82	7,480.00	66.27	71.27	-90.00	3,674.98	-1,815.61	788.14	654.60	133.54	5.902		
11,400.00	7,480.00	11,744.82	7,480.00	67.68	72.62	-90.00	3,774.97	-1,813.87	788.14	651.76	136.38	5.779		
11,500.00	7,480.00	11,844.82	7,480.00	69.10	73.98	-90.00	3,874.95	-1,812.12	788.14	648.91	139.24	5.660		
11,600.00	7,480.00	11,944.82	7,480.00	70.53	75.35	-90.00	3,974.94	-1,810.38	788.14	646.04	142.10	5.546		
11,700.00	7,480.00	12,044.82	7,480.00	71.96	76.73	-90.00	4,074.92	-1,808.63	788.14	643.16	144.98	5.436		
11,800.00	7,480.00	12,144.82	7,480.00	73.39	78.12	-90.00	4,174.91	-1,806.89	788.14	640.28	147.87	5.330		
11,900.00	7,480.00	12,244.82	7,480.00	74.83	79.51	-90.00	4,274.89	-1,805.14	788.14	637.38	150.77	5.228		
12,000.00	7,480.00	12,344.82	7,480.00	76.28	80.91	-90.00	4,374.88	-1,803.39	788.14	634.47	153.68	5.129		
12,100.00	7,480.00	12,444.82	7,480.00	77.73	82.31	-90.00	4,474.86	-1,801.65	788.14	631.55	156.59	5.033		
12,200.00	7,480.00	12,544.82	7,480.00	79.18	83.72	-90.00	4,574.85	-1,799.90	788.14	628.63	159.52	4.941		
12,300.00	7,480.00	12,644.82	7,480.00	80.64	85.14	-90.00	4,674.83	-1,798.16	788.14	625.69	162.45	4.852		
12,400.00	7,480.00	12,744.82	7,480.00	82.11	86.56	-90.00	4,774.82	-1,796.41	788.14	622.75	165.39	4.765		
12,500.00	7,480.00	12,844.82	7,480.00	83.57	87.99	-90.00	4,874.80	-1,794.67	788.14	619.80	168.34	4.682		
12,600.00	7,480.00	12,944.82	7,480.00	85.05	89.42	-90.00	4,974.78	-1,792.92	788.14	616.85	171.30	4.601		
12,700.00	7,480.00	13,044.82	7,480.00	86.52	90.86	-90.00	5,074.77	-1,791.18	788.14	613.89	174.26	4.523		
12,800.00	7,480.00	13,144.82	7,480.00	88.00	92.30	-90.00	5,174.75	-1,789.43	788.14	610.92	177.23	4.447		
12,900.00	7,480.00	13,244.82	7,480.00	89.48	93.75	-90.00	5,274.74	-1,787.69	788.14	607.94	180.20	4.374		
13,000.00	7,480.00	13,344.82	7,480.00	90.96	95.19	-90.00	5,374.72	-1,785.94	788.14	604.96	183.18	4.303		
13,100.00	7,480.00	13,444.82	7,480.00	92.45	96.65	-90.00	5,474.71	-1,784.20	788.14	601.98	186.16	4.234		
13,200.00	7,480.00	13,544.82	7,480.00	93.94	98.11	-90.00	5,574.69	-1,782.45	788.14	598.99	189.15	4.167		
13,300.00	7,480.00	13,644.82	7,480.00	95.43	99.57	-90.00	5,674.68	-1,780.71	788.14	596.00	192.15	4.102		
13,339.08	7,480.00	13,683.90	7,480.00	96.01	100.14	-90.00	5,713.76	-1,780.02	788.14	594.82	193.32	4.077		
13,400.00	7,480.00	13,744.81	7,480.00	96.93	101.03	-90.00	5,774.66	-1,778.96	787.50	592.34	195.15	4.035		
13,500.00	7,480.00	13,844.73	7,480.00	98.46	102.49	-90.00	5,874.56	-1,777.22	783.63	585.45	198.18	3.954		
13,600.00	7,480.00	13,944.46	7,480.00	100.01	103.96	-90.00	5,974.27	-1,775.48	776.27	575.05	201.22	3.858		
13,700.00	7,480.00	14,043.86	7,480.00	101.59	105.42	-90.00	6,073.66	-1,773.74	765.44	561.15	204.29	3.747		
13,800.00	7,480.00	14,142.83	7,480.00	103.20	106.89	-90.00	6,172.62	-1,772.02	751.15	543.78	207.36	3.622		
13,900.00	7,480.00	14,241.24	7,480.00	104.82	108.34	-90.00	6,271.01	-1,770.30	733.41	522.96	210.45	3.485		

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 4E-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 4E-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 #3	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	7,480.00	14,338.97	7,480.00	106.47	109.79	-90.00	6,368.73	-1,768.59	712.24	498.71	213.53	3.336						
14,100.00	7,480.00	14,435.90	7,480.00	108.14	111.22	-90.00	6,465.64	-1,766.90	687.68	471.06	216.62	3.175						
14,192.60	7,480.00	14,524.85	7,480.00	109.70	112.55	-90.00	6,554.58	-1,765.35	661.94	442.46	219.48	3.016						
14,200.00	7,480.00	14,531.92	7,480.00	109.82	112.65	-90.00	6,561.65	-1,765.22	659.76	440.06	219.71	3.003						
14,300.00	7,480.00	14,627.51	7,480.00	111.52	114.07	-90.00	6,657.23	-1,763.56	630.41	407.61	222.80	2.830						
14,400.00	7,480.00	14,723.11	7,480.00	113.22	115.50	-90.00	6,752.81	-1,761.89	601.06	375.16	225.89	2.661						
14,500.00	7,480.00	14,818.70	7,480.00	114.93	116.92	-90.00	6,848.39	-1,760.22	571.70	342.70	229.00	2.497						
14,598.91	7,480.00	14,901.25	7,480.00	116.63	118.16	-90.00	6,930.92	-1,758.78	542.80	310.19	232.61	2.333 SF						

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4D-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.25	-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	
300.00	300.00	300.00	300.00	0.85	0.85	-90.25	-0.04	-10.07	10.07	8.36	1.71	5.889	
400.00	400.00	400.00	400.00	1.21	1.21	-90.25	-0.04	-10.07	10.07	7.64	2.43	4.149	
500.00	500.00	500.00	500.00	1.57	1.57	-90.25	-0.04	-10.07	10.07	6.93	3.14	3.203 CC, ES	
600.00	600.00	599.63	599.61	1.93	1.92	-93.42	-0.70	-11.67	11.70	7.84	3.86	3.030	
700.00	699.98	699.13	698.97	2.28	2.26	12.76	-2.65	-16.48	15.02	10.44	4.58	3.281	
800.00	799.84	798.50	797.96	2.62	2.61	9.68	-5.90	-24.46	18.35	13.06	5.30	3.466	
900.00	899.45	897.76	896.49	2.97	2.98	7.32	-10.43	-35.61	21.69	15.67	6.02	3.602	
1,000.00	998.70	996.90	994.42	3.34	3.36	5.39	-16.23	-49.89	25.02	18.26	6.75	3.705	
1,102.07	1,099.50	1,097.98	1,093.64	3.73	3.77	3.71	-23.46	-67.67	28.39	20.89	7.50	3.786	
1,200.00	1,195.93	1,194.78	1,187.99	4.12	4.19	2.17	-31.62	-87.73	33.28	25.06	8.21	4.052	
1,300.00	1,294.40	1,294.56	1,284.87	4.52	4.65	0.89	-40.61	-109.85	39.88	30.96	8.92	4.471	
1,400.00	1,392.87	1,394.33	1,381.75	4.94	5.12	-0.03	-49.60	-131.97	46.50	36.87	9.64	4.826	
1,500.00	1,491.34	1,494.11	1,478.63	5.36	5.60	-0.71	-58.60	-154.08	53.13	42.77	10.36	5.128	
1,600.00	1,589.81	1,593.89	1,575.51	5.78	6.09	-1.25	-67.59	-176.20	59.76	48.67	11.09	5.388	
1,700.00	1,688.27	1,693.67	1,672.39	6.21	6.58	-1.68	-76.58	-198.32	66.40	54.57	11.83	5.614	
1,800.00	1,786.74	1,793.45	1,769.27	6.64	7.08	-2.03	-85.57	-220.43	73.04	60.47	12.57	5.811	
1,900.00	1,885.21	1,893.23	1,866.15	7.07	7.58	-2.32	-94.56	-242.55	79.69	66.37	13.31	5.985	
2,000.00	1,983.68	1,993.00	1,963.03	7.51	8.08	-2.56	-103.55	-264.67	86.33	72.27	14.06	6.139	
2,100.00	2,082.15	2,092.78	2,059.91	7.95	8.59	-2.78	-112.55	-286.78	92.98	78.16	14.81	6.276	
2,200.00	2,180.62	2,192.56	2,156.79	8.38	9.09	-2.96	-121.54	-308.90	99.62	84.06	15.57	6.400	
2,300.00	2,279.08	2,292.34	2,253.67	8.82	9.60	-3.12	-130.53	-331.02	106.27	89.95	16.32	6.511	
2,400.00	2,377.55	2,392.12	2,350.55	9.26	10.11	-3.26	-139.52	-353.14	112.92	95.84	17.08	6.612	
2,500.00	2,476.02	2,491.90	2,447.43	9.70	10.63	-3.39	-148.51	-375.25	119.57	101.73	17.84	6.704	
2,600.00	2,574.49	2,591.67	2,544.31	10.14	11.14	-3.50	-157.51	-397.37	126.22	107.62	18.60	6.787	
2,700.00	2,672.96	2,691.45	2,641.19	10.59	11.65	-3.60	-166.50	-419.49	132.87	113.51	19.36	6.864	
2,800.00	2,771.43	2,791.23	2,738.07	11.03	12.17	-3.69	-175.49	-441.60	139.52	119.40	20.12	6.935	
2,900.00	2,869.89	2,891.01	2,834.94	11.47	12.68	-3.77	-184.48	-463.72	146.17	125.29	20.88	7.000	
3,000.00	2,968.36	2,990.79	2,931.82	11.91	13.20	-3.85	-193.47	-485.84	152.82	131.18	21.65	7.060	
3,100.00	3,066.83	3,090.57	3,028.70	12.36	13.72	-3.92	-202.47	-507.95	159.48	137.07	22.41	7.116	
3,200.00	3,165.30	3,190.34	3,125.58	12.80	14.23	-3.98	-211.46	-530.07	166.13	142.95	23.17	7.168	
3,300.00	3,263.77	3,290.12	3,222.46	13.25	14.75	-4.04	-220.45	-552.19	172.78	148.84	23.94	7.217	
3,400.00	3,362.23	3,389.90	3,319.34	13.69	15.27	-4.10	-229.44	-574.30	179.43	154.73	24.71	7.263	
3,500.00	3,460.70	3,489.68	3,416.22	14.14	15.79	-4.15	-238.43	-596.42	186.09	160.61	25.47	7.305	
3,600.00	3,559.17	3,589.46	3,513.10	14.58	16.31	-4.20	-247.43	-618.54	192.74	166.50	26.24	7.345	
3,700.00	3,657.64	3,689.24	3,609.98	15.03	16.82	-4.24	-256.42	-640.65	199.39	172.38	27.01	7.383	
3,800.00	3,756.11	3,789.01	3,706.86	15.47	17.34	-4.28	-265.41	-662.77	206.04	178.27	27.78	7.418	
3,900.00	3,854.58	3,888.79	3,803.74	15.92	17.86	-4.32	-274.40	-684.89	212.70	184.15	28.54	7.452	
4,000.00	3,953.04	3,988.57	3,900.62	16.36	18.38	-4.36	-283.39	-707.01	219.35	190.04	29.31	7.483	
4,100.00	4,051.51	4,088.35	3,997.50	16.81	18.90	-4.39	-292.39	-729.12	226.00	195.92	30.08	7.513	
4,200.00	4,149.98	4,188.13	4,094.38	17.26	19.42	-4.42	-301.38	-751.24	232.66	201.80	30.85	7.541	
4,300.00	4,248.45	4,287.91	4,191.26	17.70	19.94	-4.45	-310.37	-773.36	239.31	207.69	31.62	7.568	
4,400.00	4,346.92	4,387.68	4,288.14	18.15	20.46	-4.48	-319.36	-795.47	245.96	213.57	32.39	7.594	
4,500.00	4,445.38	4,487.46	4,385.02	18.60	20.98	-4.51	-328.35	-817.59	252.62	219.46	33.16	7.618	
4,600.00	4,543.85	4,587.24	4,481.90	19.04	21.50	-4.54	-337.34	-839.71	259.27	225.34	33.93	7.641	
4,700.00	4,642.32	4,687.02	4,578.78	19.49	22.03	-4.56	-346.34	-861.82	265.92	231.22	34.70	7.663	
4,800.00	4,740.79	4,786.80	4,675.66	19.94	22.55	-4.58	-355.33	-883.94	272.58	237.11	35.47	7.685	
4,900.00	4,839.26	4,886.58	4,772.54	20.38	23.07	-4.61	-364.32	-906.06	279.23	242.99	36.24	7.705	
5,000.00	4,937.73	4,986.35	4,869.42	20.83	23.59	-4.63	-373.31	-928.17	285.88	248.87	37.01	7.724	
5,100.00	5,036.19	5,086.13	4,966.30	21.28	24.11	-4.65	-382.30	-950.29	292.54	254.75	37.78	7.743	

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 4E-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 4E-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 #3	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	5,134.66	5,185.91	5,063.18	21.73	24.63	-4.67	-391.30	-972.41	299.19	260.64	38.55	7.760		
5,300.00	5,233.13	5,285.69	5,160.06	22.17	25.15	-4.69	-400.29	-994.52	305.84	266.52	39.33	7.777		
5,400.00	5,331.60	5,385.47	5,256.94	22.62	25.67	-4.70	-409.28	-1,016.64	312.50	272.40	40.10	7.794		
5,500.00	5,430.07	5,485.25	5,353.82	23.07	26.19	-4.72	-418.27	-1,038.76	319.15	278.28	40.87	7.809		
5,600.00	5,528.54	5,585.02	5,450.70	23.52	26.72	-4.74	-427.26	-1,060.87	325.81	284.17	41.64	7.824		
5,700.00	5,627.00	5,684.80	5,547.58	23.96	27.24	-4.75	-436.26	-1,082.99	332.46	290.05	42.41	7.839		
5,800.00	5,725.47	5,784.58	5,644.46	24.41	27.76	-4.77	-445.25	-1,105.11	339.11	295.93	43.18	7.853		
5,900.00	5,823.94	5,884.36	5,741.34	24.86	28.28	-4.78	-454.24	-1,127.23	345.77	301.81	43.95	7.866		
6,000.00	5,922.41	5,984.14	5,838.22	25.31	28.80	-4.80	-463.23	-1,149.34	352.42	307.69	44.73	7.879		
6,100.00	6,020.88	6,083.92	5,935.10	25.75	29.33	-4.81	-472.22	-1,171.46	359.07	313.58	45.50	7.892		
6,200.00	6,119.34	6,183.70	6,031.98	26.20	29.85	-4.82	-481.22	-1,193.58	365.73	319.46	46.27	7.904		
6,300.00	6,217.81	6,283.47	6,128.86	26.65	30.37	-4.84	-490.21	-1,215.69	372.38	325.34	47.04	7.916		
6,400.00	6,316.28	6,383.25	6,225.74	27.10	30.89	-4.85	-499.20	-1,237.81	379.04	331.22	47.82	7.927		
6,500.00	6,414.75	6,483.03	6,322.62	27.54	31.41	-4.86	-508.19	-1,259.93	385.69	337.10	48.59	7.938		
6,600.00	6,513.22	6,582.81	6,419.50	27.99	31.94	-4.87	-517.18	-1,282.04	392.34	342.98	49.36	7.949		
6,700.00	6,611.69	6,682.59	6,516.38	28.44	32.46	-4.88	-526.18	-1,304.16	399.00	348.87	50.13	7.959		
6,800.00	6,710.15	6,782.37	6,613.26	28.89	32.98	-4.89	-535.17	-1,326.28	405.65	354.75	50.91	7.969		
6,818.10	6,727.97	6,800.57	6,630.94	28.97	33.07	-4.89	-536.81	-1,330.31	406.86	355.81	51.05	7.970		
6,850.00	6,759.42	6,842.22	6,671.46	29.11	33.29	-19.19	-539.32	-1,339.57	408.90	357.51	51.38	7.958		
6,900.00	6,808.74	6,907.56	6,735.11	29.32	33.60	-42.51	-538.38	-1,354.17	411.81	359.96	51.84	7.943		
6,950.00	6,857.89	6,972.83	6,798.35	29.51	33.87	-61.02	-531.50	-1,368.71	414.36	362.14	52.22	7.935		
7,000.00	6,906.63	7,037.89	6,860.50	29.69	34.12	-73.18	-518.80	-1,383.06	416.56	364.04	52.51	7.932		
7,050.00	6,954.71	7,102.59	6,920.93	29.85	34.33	-80.76	-500.48	-1,397.07	418.42	365.66	52.76	7.931		
7,100.00	7,001.91	7,166.80	6,979.05	30.00	34.50	-85.48	-476.84	-1,410.59	419.97	367.01	52.96	7.930		
7,150.00	7,048.00	7,230.37	7,034.33	30.13	34.65	-88.39	-448.27	-1,423.50	421.24	368.08	53.15	7.925		
7,200.00	7,092.75	7,293.22	7,086.33	30.25	34.78	-90.12	-415.18	-1,435.71	422.26	368.91	53.35	7.914		
7,250.00	7,135.95	7,355.24	7,134.67	30.36	34.88	-91.03	-378.07	-1,447.10	423.09	369.51	53.58	7.896		
7,300.00	7,177.37	7,416.37	7,179.07	30.45	34.95	-91.36	-337.42	-1,457.63	423.76	369.91	53.85	7.869		
7,350.00	7,216.83	7,476.53	7,219.30	30.53	35.00	-91.25	-293.76	-1,467.23	424.33	370.16	54.17	7.833		
7,400.00	7,254.13	7,535.70	7,255.25	30.60	35.04	-90.80	-247.58	-1,475.87	424.83	370.29	54.54	7.789		
7,450.00	7,289.09	7,593.85	7,286.83	30.66	35.06	-90.10	-199.38	-1,483.52	425.31	370.36	54.96	7.739		
7,500.00	7,321.53	7,650.96	7,314.03	30.70	35.08	-89.19	-149.62	-1,490.19	425.81	370.40	55.41	7.685		
7,550.00	7,351.30	7,707.04	7,336.90	30.74	35.08	-88.11	-98.75	-1,495.87	426.36	370.48	55.89	7.629		
7,600.00	7,378.26	7,762.09	7,355.50	30.77	35.08	-86.91	-47.17	-1,500.58	427.00	370.62	56.38	7.574		
7,650.00	7,402.27	7,816.14	7,369.96	30.80	35.07	-85.61	4.77	-1,504.35	427.74	370.87	56.87	7.521		
7,700.00	7,423.21	7,869.21	7,380.39	30.82	35.07	-84.22	56.71	-1,507.19	428.60	371.24	57.36	7.473		
7,750.00	7,440.99	7,921.34	7,386.96	30.83	35.06	-82.78	108.37	-1,509.15	429.59	371.76	57.83	7.429		
7,800.00	7,455.51	7,972.56	7,389.83	30.85	35.07	-81.29	159.49	-1,510.25	430.71	372.43	58.28	7.390		
7,850.00	7,466.72	8,021.95	7,390.00	30.88	35.08	-79.89	208.88	-1,510.72	432.01	373.29	58.72	7.358		
7,900.00	7,474.54	8,071.32	7,390.00	30.91	35.10	-78.88	258.25	-1,511.15	433.47	374.33	59.14	7.329		
7,950.00	7,478.95	8,121.12	7,390.00	30.95	35.14	-78.26	308.04	-1,511.59	434.92	375.34	59.58	7.300		
7,989.08	7,480.00	8,160.17	7,390.00	31.00	35.18	-78.08	347.09	-1,511.93	435.97	376.02	59.94	7.273		
8,000.00	7,480.00	8,171.08	7,390.00	31.02	35.19	-78.09	358.01	-1,512.02	436.24	376.20	60.04	7.266		
8,100.00	7,480.00	8,271.05	7,390.00	31.22	35.36	-78.16	457.97	-1,512.90	438.81	377.75	61.06	7.187		
8,200.00	7,480.00	8,371.02	7,390.00	31.54	35.60	-78.23	557.93	-1,513.77	441.37	379.15	62.21	7.094		
8,300.00	7,480.00	8,470.98	7,390.00	31.98	35.93	-78.30	657.89	-1,514.64	443.93	380.43	63.50	6.991		
8,400.00	7,480.00	8,570.95	7,390.00	32.54	36.35	-78.37	757.85	-1,515.51	446.50	381.58	64.91	6.879		
8,500.00	7,480.00	8,670.91	7,390.00	33.19	36.88	-78.43	857.82	-1,516.39	449.06	382.62	66.44	6.759		
8,600.00	7,480.00	8,770.88	7,390.00	33.93	37.49	-78.50	957.78	-1,517.26	451.62	383.56	68.07	6.635		
8,700.00	7,480.00	8,870.84	7,390.00	34.73	38.19	-78.57	1,057.74	-1,518.13	454.19	384.39	69.80	6.507		
8,800.00	7,480.00	8,970.81	7,390.00	35.58	38.96	-78.63	1,157.70	-1,519.00	456.76	385.13	71.63	6.377		
8,900.00	7,480.00	9,070.78	7,390.00	36.49	39.81	-78.70	1,257.66	-1,519.87	459.32	385.78	73.54	6.245		

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 4E-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 4E-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 #3	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	7,480.00	9,170.74	7,390.00	37.45	40.71	-78.76	1,357.62	-1,520.75	461.89	386.35	75.54	6.115	
9,100.00	7,480.00	9,270.71	7,390.00	38.45	41.66	-78.82	1,457.59	-1,521.62	464.46	386.85	77.61	5.985	
9,200.00	7,480.00	9,370.67	7,390.00	39.49	42.66	-78.89	1,557.55	-1,522.49	467.03	387.28	79.74	5.857	
9,300.00	7,480.00	9,470.64	7,390.00	40.56	43.70	-78.95	1,657.51	-1,523.36	469.60	387.65	81.94	5.731	
9,400.00	7,480.00	9,570.60	7,390.00	41.66	44.78	-79.01	1,757.47	-1,524.24	472.16	387.96	84.20	5.608	
9,500.00	7,480.00	9,670.57	7,390.00	42.79	45.89	-79.07	1,857.43	-1,525.11	474.73	388.22	86.51	5.487	
9,600.00	7,480.00	9,770.54	7,390.00	43.95	47.03	-79.13	1,957.40	-1,525.98	477.31	388.43	88.87	5.371	
9,700.00	7,480.00	9,870.50	7,390.00	45.13	48.20	-79.19	2,057.36	-1,526.85	479.88	388.60	91.28	5.257	
9,800.00	7,480.00	9,970.47	7,390.00	46.34	49.39	-79.24	2,157.32	-1,527.73	482.45	388.72	93.73	5.147	
9,900.00	7,480.00	10,070.43	7,390.00	47.57	50.60	-79.30	2,257.28	-1,528.60	485.02	388.80	96.22	5.041	
10,000.00	7,480.00	10,170.40	7,390.00	48.82	51.84	-79.36	2,357.24	-1,529.47	487.59	388.85	98.75	4.938	
10,100.00	7,480.00	10,270.36	7,390.00	50.08	53.10	-79.42	2,457.21	-1,530.34	490.17	388.86	101.30	4.839	
10,200.00	7,480.00	10,370.33	7,390.00	51.36	54.37	-79.47	2,557.17	-1,531.22	492.74	388.84	103.89	4.743	
10,300.00	7,480.00	10,470.30	7,390.00	52.66	55.66	-79.53	2,657.13	-1,532.09	495.31	388.80	106.51	4.650	
10,400.00	7,480.00	10,570.26	7,390.00	53.97	56.97	-79.58	2,757.09	-1,532.96	497.89	388.73	109.16	4.561	
10,500.00	7,480.00	10,670.23	7,390.00	55.29	58.29	-79.64	2,857.05	-1,533.83	500.46	388.63	111.83	4.475	
10,600.00	7,480.00	10,770.19	7,390.00	56.63	59.62	-79.69	2,957.02	-1,534.70	503.04	388.51	114.53	4.392	
10,700.00	7,480.00	10,870.16	7,390.00	57.98	60.97	-79.74	3,056.98	-1,535.58	505.61	388.37	117.24	4.313	
10,800.00	7,480.00	10,970.12	7,390.00	59.34	62.32	-79.80	3,156.94	-1,536.45	508.19	388.21	119.98	4.236	
10,900.00	7,480.00	11,070.09	7,390.00	60.71	63.69	-79.85	3,256.90	-1,537.32	510.77	388.03	122.74	4.161	
11,000.00	7,480.00	11,170.06	7,390.00	62.09	65.07	-79.90	3,356.86	-1,538.19	513.34	387.83	125.51	4.090	
11,100.00	7,480.00	11,270.02	7,390.00	63.47	66.46	-79.95	3,456.83	-1,539.07	515.92	387.62	128.30	4.021	
11,200.00	7,480.00	11,369.99	7,390.00	64.87	67.85	-80.00	3,556.79	-1,539.94	518.50	387.39	131.11	3.955	
11,300.00	7,480.00	11,469.95	7,390.00	66.27	69.26	-80.05	3,656.75	-1,540.81	521.08	387.15	133.93	3.891	
11,400.00	7,480.00	11,569.92	7,390.00	67.68	70.67	-80.10	3,756.71	-1,541.68	523.65	386.89	136.76	3.829	
11,500.00	7,480.00	11,669.88	7,390.00	69.10	72.09	-80.15	3,856.67	-1,542.56	526.23	386.62	139.61	3.769	
11,600.00	7,480.00	11,769.85	7,390.00	70.53	73.52	-80.20	3,956.63	-1,543.43	528.81	386.34	142.47	3.712	
11,700.00	7,480.00	11,869.82	7,390.00	71.96	74.95	-80.25	4,056.60	-1,544.30	531.39	386.05	145.34	3.656	
11,800.00	7,480.00	11,969.78	7,390.00	73.39	76.39	-80.29	4,156.56	-1,545.17	533.97	385.74	148.23	3.602	
11,900.00	7,480.00	12,076.89	7,390.00	74.83	77.93	-80.34	4,263.67	-1,545.85	536.34	385.42	150.92	3.554	
12,000.00	7,480.00	12,180.33	7,390.00	76.28	79.41	-80.35	4,367.10	-1,544.74	537.00	383.30	153.70	3.494	
12,100.00	7,480.00	12,280.33	7,390.00	77.73	80.85	-80.36	4,467.09	-1,543.61	537.61	381.01	156.59	3.433	
12,200.00	7,480.00	12,380.33	7,390.00	79.18	82.29	-80.37	4,567.08	-1,542.48	538.21	378.72	159.49	3.375	
12,300.00	7,480.00	12,480.33	7,390.00	80.64	83.73	-80.38	4,667.08	-1,541.35	538.82	376.42	162.40	3.318	
12,400.00	7,480.00	12,580.33	7,390.00	82.11	85.18	-80.40	4,767.07	-1,540.22	539.43	374.11	165.32	3.263	
12,500.00	7,480.00	12,680.32	7,390.00	83.57	86.64	-80.41	4,867.06	-1,539.09	540.03	371.79	168.24	3.210	
12,600.00	7,480.00	12,780.32	7,390.00	85.05	88.09	-80.42	4,967.05	-1,537.96	540.64	369.47	171.17	3.158	
12,700.00	7,480.00	12,880.32	7,390.00	86.52	89.56	-80.43	5,067.04	-1,536.83	541.25	367.14	174.11	3.109	
12,800.00	7,480.00	12,980.32	7,390.00	88.00	91.02	-80.44	5,167.03	-1,535.70	541.86	364.80	177.06	3.060	
12,900.00	7,480.00	13,080.32	7,390.00	89.48	92.49	-80.45	5,267.03	-1,534.57	542.46	362.46	180.00	3.014	
13,000.00	7,480.00	13,180.31	7,390.00	90.96	93.96	-80.46	5,367.02	-1,533.44	543.07	360.11	182.96	2.968	
13,100.00	7,480.00	13,280.31	7,390.00	92.45	95.44	-80.47	5,467.01	-1,532.31	543.68	357.76	185.92	2.924	
13,200.00	7,480.00	13,380.31	7,390.00	93.94	96.92	-80.48	5,567.00	-1,531.19	544.28	355.40	188.89	2.882	
13,300.00	7,480.00	13,480.31	7,390.00	95.43	98.40	-80.49	5,666.99	-1,530.06	544.89	353.04	191.86	2.840	
13,339.08	7,480.00	13,519.39	7,390.00	96.01	98.98	-80.50	5,706.07	-1,529.61	545.13	352.11	193.02	2.824	
13,400.00	7,480.00	13,580.31	7,390.00	96.93	99.88	-80.49	5,766.98	-1,528.93	544.86	350.03	194.83	2.797	
13,500.00	7,480.00	13,680.25	7,390.00	98.46	101.37	-80.42	5,866.92	-1,527.80	541.65	343.83	197.82	2.738	
13,600.00	7,480.00	13,780.01	7,390.00	100.01	102.86	-80.28	5,966.68	-1,526.67	535.00	334.19	200.81	2.664	
13,700.00	7,480.00	13,879.49	7,390.00	101.59	104.34	-80.06	6,066.15	-1,525.55	524.93	321.13	203.80	2.576	
13,800.00	7,480.00	13,978.54	7,390.00	103.20	105.82	-79.75	6,165.19	-1,524.43	511.46	304.68	206.78	2.473	
13,900.00	7,480.00	14,077.06	7,390.00	104.82	107.30	-79.33	6,263.70	-1,523.32	494.60	284.87	209.73	2.358	
14,000.00	7,480.00	14,174.91	7,390.00	106.47	108.76	-78.79	6,361.56	-1,522.21	474.40	261.75	212.65	2.231	

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 4E-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 4E-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 #3	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						
14,100.00	7,480.00	14,272.00	7,390.00	108.14	110.22	-78.10	6,458.63	-1,521.11	450.89	235.39	215.50	2.092						
14,192.60	7,480.00	14,361.10	7,390.00	109.70	111.56	-77.29	6,547.73	-1,520.11	426.23	208.16	218.07	1.955						
14,200.00	7,480.00	14,368.18	7,390.00	109.82	111.67	-77.23	6,554.81	-1,520.03	424.15	205.88	218.27	1.943						
14,300.00	7,480.00	14,463.96	7,390.00	111.52	113.11	-76.31	6,650.58	-1,518.95	396.09	175.16	220.93	1.793						
14,400.00	7,480.00	14,559.73	7,390.00	113.22	114.55	-75.25	6,746.35	-1,517.86	368.13	144.66	223.47	1.647						
14,500.00	7,480.00	14,655.50	7,390.00	114.93	116.00	-74.02	6,842.12	-1,516.78	340.31	114.46	225.85	1.507						
14,598.91	7,480.00	14,745.41	7,390.00	116.63	117.35	-72.67	6,932.02	-1,515.77	313.00	84.65	228.35	1.371	Level 3, SF					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-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	
0.00	0.00	0.00	0.00	0.00	0.00	91.42	-0.25	10.07	10.07					
100.00	100.00	100.00	100.00	0.14	0.14	91.42	-0.25	10.07	10.07	9.80	0.28	36.500		
200.00	200.00	200.00	200.00	0.50	0.50	91.42	-0.25	10.07	10.07	9.08	0.99	10.146		
300.00	300.00	300.07	300.05	0.85	0.84	101.29	-1.89	9.47	9.66	7.96	1.70	5.694		
335.60	335.60	335.65	335.60	0.98	0.97	110.00	-3.27	8.97	9.55	7.60	1.94	4.910 CC		
400.00	400.00	400.05	399.90	1.21	1.19	131.39	-6.54	7.42	9.89	7.48	2.40	4.114 ES		
500.00	500.00	499.80	499.33	1.57	1.55	169.45	-12.53	2.33	12.77	9.60	3.16	4.037		
600.00	600.00	598.97	597.89	1.93	1.92	-163.01	-19.57	-5.98	20.57	16.60	3.97	5.186		
700.00	699.98	698.08	696.09	2.28	2.31	-39.68	-27.44	-16.86	31.09	26.40	4.69	6.625		
800.00	799.84	797.68	794.75	2.62	2.71	-36.09	-35.42	-28.00	39.67	34.30	5.37	7.383		
900.00	899.45	897.51	893.62	2.97	3.11	-36.24	-43.42	-39.17	45.49	39.43	6.07	7.500		
1,000.00	998.70	997.43	992.60	3.34	3.52	-38.81	-51.42	-50.36	48.56	41.78	6.78	7.166		
1,102.07	1,099.50	1,099.40	1,093.59	3.73	3.93	-43.90	-59.59	-61.76	49.12	41.59	7.53	6.526		
1,190.18	1,186.27	1,187.38	1,180.74	4.08	4.29	-49.55	-66.64	-71.61	48.88	40.68	8.20	5.959		
1,200.00	1,195.93	1,197.18	1,190.45	4.12	4.33	-50.18	-67.43	-72.71	48.88	40.60	8.28	5.904		
1,300.00	1,294.40	1,297.03	1,289.35	4.52	4.74	-56.58	-75.43	-83.88	49.25	40.17	9.08	5.425		
1,400.00	1,392.87	1,396.88	1,388.24	4.94	5.15	-62.80	-83.43	-95.05	50.22	40.32	9.90	5.071		
1,500.00	1,491.34	1,496.73	1,487.14	5.36	5.56	-68.73	-91.43	-106.22	51.76	41.01	10.75	4.815		
1,600.00	1,589.81	1,596.58	1,586.04	5.78	5.98	-74.25	-99.43	-117.39	53.82	42.21	11.61	4.635		
1,700.00	1,688.27	1,696.43	1,684.94	6.21	6.39	-79.33	-107.43	-128.57	56.34	43.86	12.48	4.514		
1,800.00	1,786.74	1,796.28	1,783.84	6.64	6.80	-83.94	-115.43	-139.74	59.26	45.91	13.35	4.439		
1,900.00	1,885.21	1,896.13	1,882.74	7.07	7.22	-88.10	-123.43	-150.91	62.53	48.31	14.22	4.397		
2,000.00	1,983.68	1,995.98	1,981.64	7.51	7.63	-91.82	-131.43	-162.08	66.10	51.01	15.09	4.381		
2,100.00	2,082.15	2,095.82	2,080.54	7.95	8.04	-95.15	-139.43	-173.26	69.92	53.97	15.95	4.384		
2,200.00	2,180.62	2,195.67	2,179.44	8.38	8.46	-98.13	-147.43	-184.43	73.95	57.14	16.81	4.400		
2,300.00	2,279.08	2,295.52	2,278.33	8.82	8.87	-100.80	-155.42	-195.60	78.16	60.50	17.66	4.426		
2,400.00	2,377.55	2,395.37	2,377.23	9.26	9.28	-103.18	-163.42	-206.77	82.51	64.01	18.50	4.459		
2,500.00	2,476.02	2,495.22	2,476.13	9.70	9.70	-105.33	-171.42	-217.94	87.00	67.65	19.35	4.497		
2,600.00	2,574.49	2,595.07	2,575.03	10.14	10.11	-107.26	-179.42	-229.12	91.60	71.41	20.19	4.537		
2,700.00	2,672.96	2,694.92	2,673.93	10.59	10.53	-109.01	-187.42	-240.29	96.29	75.27	21.02	4.580		
2,800.00	2,771.43	2,794.77	2,772.83	11.03	10.94	-110.59	-195.42	-251.46	101.06	79.21	21.86	4.624		
2,900.00	2,869.89	2,894.62	2,871.73	11.47	11.36	-112.03	-203.42	-262.63	105.91	83.22	22.69	4.668		
3,000.00	2,968.36	2,994.46	2,970.63	11.91	11.77	-113.34	-211.42	-273.80	110.81	87.29	23.52	4.712		
3,100.00	3,066.83	3,094.31	3,069.53	12.36	12.18	-114.54	-219.42	-284.98	115.77	91.42	24.35	4.755		
3,200.00	3,165.30	3,194.16	3,168.42	12.80	12.60	-115.65	-227.42	-296.15	120.77	95.60	25.17	4.798		
3,300.00	3,263.77	3,294.01	3,267.32	13.25	13.01	-116.66	-235.42	-307.32	125.81	99.82	26.00	4.839		
3,400.00	3,362.23	3,393.86	3,366.22	13.69	13.43	-117.59	-243.42	-318.49	130.89	104.07	26.82	4.880		
3,500.00	3,460.70	3,493.71	3,465.12	14.14	13.84	-118.46	-251.42	-329.67	136.01	108.36	27.64	4.920		
3,600.00	3,559.17	3,593.56	3,564.02	14.58	14.26	-119.26	-259.42	-340.84	141.15	112.68	28.47	4.958		
3,700.00	3,657.64	3,693.41	3,662.92	15.03	14.67	-120.01	-267.42	-352.01	146.32	117.03	29.29	4.996		
3,800.00	3,756.11	3,793.26	3,761.82	15.47	15.09	-120.70	-275.42	-363.18	151.51	121.40	30.11	5.032		
3,900.00	3,854.58	3,893.11	3,860.72	15.92	15.50	-121.35	-283.42	-374.35	156.72	125.79	30.93	5.067		
4,000.00	3,953.04	3,992.95	3,959.62	16.36	15.92	-121.96	-291.42	-385.53	161.95	130.20	31.75	5.101		
4,100.00	4,051.51	4,092.80	4,058.51	16.81	16.33	-122.53	-299.42	-396.70	167.19	134.63	32.57	5.134		
4,200.00	4,149.98	4,192.65	4,157.41	17.26	16.75	-123.06	-307.42	-407.87	172.46	139.07	33.39	5.166		
4,300.00	4,248.45	4,292.50	4,256.31	17.70	17.16	-123.57	-315.42	-419.04	177.73	143.53	34.20	5.196		
4,400.00	4,346.92	4,392.35	4,355.21	18.15	17.58	-124.04	-323.42	-430.22	183.02	148.00	35.02	5.226		
4,500.00	4,445.38	4,492.20	4,454.11	18.60	17.99	-124.49	-331.42	-441.39	188.32	152.48	35.84	5.254		
4,600.00	4,543.85	4,592.05	4,553.01	19.04	18.41	-124.91	-339.42	-452.56	193.63	156.98	36.66	5.282		
4,700.00	4,642.32	4,691.90	4,651.91	19.49	18.82	-125.31	-347.42	-463.73	198.96	161.48	37.48	5.309		
4,800.00	4,740.79	4,791.75	4,750.81	19.94	19.24	-125.69	-355.42	-474.90	204.29	165.99	38.29	5.335		
4,900.00	4,839.26	4,891.59	4,849.71	20.38	19.65	-126.05	-363.42	-486.08	209.63	170.52	39.11	5.360		

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-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		
5,000.00	4,937.73	4,991.44	4,948.61	20.83	20.07	-126.39	-371.42	-497.25	214.97	175.05	39.93	5.384		
5,100.00	5,036.19	5,091.29	5,047.50	21.28	20.48	-126.72	-379.42	-508.42	220.33	179.58	40.74	5.408		
5,200.00	5,134.66	5,191.14	5,146.40	21.73	20.90	-127.03	-387.42	-519.59	225.69	184.13	41.56	5.430		
5,300.00	5,233.13	5,290.99	5,245.30	22.17	21.31	-127.32	-395.42	-530.76	231.06	188.68	42.38	5.452		
5,400.00	5,331.60	5,390.84	5,344.20	22.62	21.73	-127.60	-403.42	-541.94	236.43	193.24	43.19	5.474		
5,500.00	5,430.07	5,490.69	5,443.10	23.07	22.14	-127.87	-411.42	-553.11	241.81	197.80	44.01	5.494		
5,600.00	5,528.54	5,590.54	5,542.00	23.52	22.56	-128.13	-419.42	-564.28	247.19	202.37	44.83	5.514		
5,700.00	5,627.00	5,690.39	5,640.90	23.96	22.97	-128.38	-427.42	-575.45	252.58	206.94	45.64	5.534		
5,800.00	5,725.47	5,790.23	5,739.80	24.41	23.39	-128.61	-435.42	-586.63	257.97	211.51	46.46	5.553		
5,900.00	5,823.94	5,890.08	5,838.70	24.86	23.80	-128.84	-443.42	-597.80	263.37	216.10	47.28	5.571		
6,000.00	5,922.41	5,989.93	5,937.59	25.31	24.22	-129.06	-451.42	-608.97	268.77	220.68	48.09	5.589		
6,100.00	6,020.88	6,089.78	6,036.49	25.75	24.63	-129.27	-459.42	-620.14	274.18	225.27	48.91	5.606		
6,200.00	6,119.34	6,189.63	6,135.39	26.20	25.05	-129.47	-467.42	-631.31	279.59	229.86	49.72	5.623		
6,300.00	6,217.81	6,289.48	6,234.29	26.65	25.46	-129.66	-475.42	-642.49	285.00	234.46	50.54	5.639		
6,400.00	6,316.28	6,389.33	6,333.19	27.10	25.88	-129.85	-483.42	-653.66	290.41	239.06	51.36	5.655		
6,500.00	6,414.75	6,489.18	6,432.09	27.54	26.29	-130.03	-491.42	-664.83	295.83	243.66	52.17	5.670		
6,600.00	6,513.22	6,589.03	6,530.99	27.99	26.71	-130.20	-499.42	-676.00	301.25	248.26	52.99	5.685		
6,700.00	6,611.69	6,688.87	6,629.89	28.44	27.12	-130.37	-507.42	-687.18	306.67	252.87	53.80	5.700		
6,800.00	6,710.15	6,788.72	6,728.79	28.89	27.54	-130.53	-515.42	-698.35	312.10	257.48	54.62	5.714		
6,818.10	6,727.97	6,806.79	6,746.68	28.97	27.61	-130.56	-516.86	-700.37	313.08	258.32	54.77	5.717		
6,850.00	6,759.42	6,838.62	6,778.21	29.11	27.74	-145.12	-519.41	-703.93	315.15	260.11	55.03	5.726		
6,900.00	6,808.74	6,888.31	6,827.42	29.32	27.95	-168.64	-523.39	-709.49	319.74	264.26	55.48	5.763		
6,950.00	6,857.89	6,948.12	6,886.76	29.51	28.19	172.94	-526.61	-716.16	325.44	269.48	55.97	5.815		
7,000.00	6,906.63	7,012.14	6,950.34	29.69	28.42	160.64	-524.63	-723.19	330.81	274.53	56.29	5.877		
7,050.00	6,954.71	7,076.99	7,014.32	29.85	28.61	152.59	-516.81	-730.15	335.71	279.30	56.41	5.951		
7,100.00	7,001.91	7,142.54	7,078.02	30.00	28.79	147.11	-503.03	-736.95	340.06	283.73	56.34	6.036		
7,150.00	7,048.00	7,208.65	7,140.74	30.13	28.94	143.14	-483.26	-743.51	343.83	287.75	56.08	6.131		
7,200.00	7,092.75	7,275.16	7,201.74	30.25	29.07	140.08	-457.59	-749.76	346.95	291.29	55.66	6.233		
7,250.00	7,135.95	7,341.89	7,260.33	30.36	29.17	137.57	-426.24	-755.62	349.42	294.30	55.13	6.338		
7,300.00	7,177.37	7,408.66	7,315.81	30.45	29.26	135.40	-389.51	-761.03	351.22	296.70	54.52	6.442		
7,350.00	7,216.83	7,475.30	7,367.56	30.53	29.32	133.43	-347.85	-765.91	352.35	298.47	53.89	6.539		
7,400.00	7,254.13	7,541.63	7,415.04	30.60	29.36	131.58	-301.77	-770.23	352.83	299.53	53.30	6.620		
7,450.00	7,289.09	7,607.48	7,457.79	30.66	29.38	129.80	-251.86	-773.94	352.70	299.89	52.81	6.678		
7,500.00	7,321.53	7,672.69	7,495.47	30.70	29.38	128.03	-198.75	-777.02	351.99	299.51	52.48	6.707		
7,550.00	7,351.30	7,737.13	7,527.85	30.74	29.37	126.26	-143.11	-779.46	350.76	298.42	52.34	6.702		
7,600.00	7,378.26	7,800.69	7,554.79	30.77	29.34	124.47	-85.60	-781.25	349.07	296.66	52.41	6.660		
7,650.00	7,402.27	7,863.26	7,576.27	30.80	29.31	122.65	-26.86	-782.41	346.99	294.28	52.71	6.583		
7,700.00	7,423.21	7,924.77	7,592.34	30.82	29.27	120.79	32.49	-782.96	344.61	291.39	53.22	6.476		
7,750.00	7,440.99	7,985.18	7,603.15	30.83	29.23	118.90	91.91	-782.92	341.99	288.09	53.90	6.345		
7,800.00	7,455.51	8,044.43	7,608.88	30.85	29.19	116.97	150.86	-782.32	339.21	284.50	54.71	6.200		
7,850.00	7,466.72	8,099.82	7,610.00	30.88	29.18	115.13	206.21	-781.29	336.42	280.82	55.60	6.051		
7,900.00	7,474.54	8,149.17	7,610.00	30.91	29.23	113.88	255.55	-780.25	334.49	278.14	56.35	5.936		
7,950.00	7,478.95	8,198.96	7,610.00	30.95	29.42	113.14	305.33	-779.21	333.56	276.60	56.96	5.856		
7,979.30	7,479.93	8,228.24	7,610.00	30.99	29.56	112.96	334.61	-778.60	333.42	276.14	57.28	5.821		
7,989.08	7,480.00	8,238.02	7,610.00	31.00	29.61	112.95	344.38	-778.39	333.43	276.06	57.37	5.812		
8,000.00	7,480.00	8,248.94	7,610.00	31.02	29.67	112.94	355.30	-778.16	333.47	275.99	57.48	5.802		
8,100.00	7,480.00	8,348.93	7,610.00	31.22	30.23	112.92	455.28	-776.07	333.79	275.29	58.50	5.706		
8,200.00	7,480.00	8,448.93	7,610.00	31.54	30.87	112.90	555.25	-773.97	334.11	274.46	59.65	5.602		
8,300.00	7,480.00	8,548.93	7,610.00	31.98	31.56	112.87	655.23	-771.88	334.43	273.51	60.92	5.490		
8,400.00	7,480.00	8,648.93	7,610.00	32.54	32.31	112.85	755.21	-769.79	334.75	272.45	62.30	5.373		
8,500.00	7,480.00	8,748.93	7,610.00	33.19	33.11	112.83	855.19	-767.69	335.08	271.28	63.80	5.252		
8,600.00	7,480.00	8,848.93	7,610.00	33.93	33.97	112.81	955.16	-765.60	335.40	270.01	65.39	5.129		

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,700.00	7,480.00	8,948.93	7,610.00	34.73	34.87	112.78	1,055.14	-763.50	335.72	268.64	67.08	5.005	
8,800.00	7,480.00	9,048.93	7,610.00	35.58	35.81	112.76	1,155.12	-761.41	336.04	267.19	68.85	4.881	
8,900.00	7,480.00	9,148.93	7,610.00	36.49	36.80	112.74	1,255.10	-759.31	336.36	265.66	70.70	4.757	
9,000.00	7,480.00	9,248.93	7,610.00	37.45	37.82	112.71	1,355.07	-757.22	336.69	264.06	72.63	4.636	
9,100.00	7,480.00	9,348.93	7,610.00	38.45	38.87	112.69	1,455.05	-755.13	337.01	262.39	74.62	4.516	
9,200.00	7,480.00	9,448.93	7,610.00	39.49	39.96	112.67	1,555.03	-753.03	337.33	260.65	76.68	4.399	
9,300.00	7,480.00	9,548.93	7,610.00	40.56	41.08	112.64	1,655.01	-750.94	337.65	258.86	78.79	4.285	
9,400.00	7,480.00	9,648.93	7,610.00	41.66	42.23	112.62	1,754.98	-748.84	337.97	257.01	80.96	4.174	
9,500.00	7,480.00	9,748.93	7,610.00	42.79	43.40	112.60	1,854.96	-746.75	338.30	255.11	83.18	4.067	
9,600.00	7,480.00	9,848.93	7,610.00	43.95	44.60	112.58	1,954.94	-744.65	338.62	253.17	85.45	3.963	
9,700.00	7,480.00	9,948.92	7,610.00	45.13	45.81	112.55	2,054.92	-742.56	338.94	251.19	87.75	3.862	
9,800.00	7,480.00	10,048.92	7,610.00	46.34	47.05	112.53	2,154.89	-740.47	339.26	249.17	90.10	3.765	
9,900.00	7,480.00	10,148.92	7,610.00	47.57	48.31	112.51	2,254.87	-738.37	339.59	247.11	92.48	3.672	
10,000.00	7,480.00	10,248.92	7,610.00	48.82	49.58	112.49	2,354.85	-736.28	339.91	245.01	94.89	3.582	
10,100.00	7,480.00	10,348.92	7,610.00	50.08	50.87	112.46	2,454.83	-734.18	340.23	242.89	97.34	3.495	
10,200.00	7,480.00	10,448.92	7,610.00	51.36	52.17	112.44	2,554.80	-732.09	340.55	240.74	99.82	3.412	
10,300.00	7,480.00	10,548.92	7,610.00	52.66	53.49	112.42	2,654.78	-730.00	340.88	238.56	102.32	3.332	
10,400.00	7,480.00	10,648.92	7,610.00	53.97	54.82	112.40	2,754.76	-727.90	341.20	236.36	104.84	3.254	
10,500.00	7,480.00	10,748.92	7,610.00	55.29	56.17	112.37	2,854.74	-725.81	341.52	234.13	107.39	3.180	
10,600.00	7,480.00	10,848.92	7,610.00	56.63	57.52	112.35	2,954.71	-723.71	341.84	231.88	109.96	3.109	
10,700.00	7,480.00	10,948.92	7,610.00	57.98	58.89	112.33	3,054.69	-721.62	342.17	229.61	112.56	3.040	
10,800.00	7,480.00	11,048.92	7,610.00	59.34	60.26	112.31	3,154.67	-719.52	342.49	227.32	115.17	2.974	
10,900.00	7,480.00	11,148.92	7,610.00	60.71	61.64	112.29	3,254.65	-717.43	342.81	225.02	117.80	2.910	
11,000.00	7,480.00	11,248.92	7,610.00	62.09	63.04	112.26	3,354.62	-715.34	343.14	222.70	120.44	2.849	
11,100.00	7,480.00	11,348.92	7,610.00	63.47	64.44	112.24	3,454.60	-713.24	343.46	220.36	123.10	2.790	
11,200.00	7,480.00	11,448.92	7,610.00	64.87	65.84	112.22	3,554.58	-711.15	343.78	218.01	125.78	2.733	
11,300.00	7,480.00	11,548.92	7,610.00	66.27	67.26	112.20	3,654.56	-709.05	344.11	215.64	128.46	2.679	
11,400.00	7,480.00	11,648.91	7,610.00	67.68	68.68	112.18	3,754.53	-706.96	344.43	213.26	131.17	2.626	
11,500.00	7,480.00	11,748.91	7,610.00	69.10	70.11	112.15	3,854.51	-704.86	344.75	210.87	133.88	2.575	
11,600.00	7,480.00	11,848.91	7,610.00	70.53	71.54	112.13	3,954.49	-702.77	345.07	208.47	136.60	2.526	
11,700.00	7,480.00	11,948.91	7,610.00	71.96	72.98	112.11	4,054.47	-700.68	345.40	206.06	139.34	2.479	
11,800.00	7,480.00	12,048.91	7,610.00	73.39	74.42	112.09	4,154.44	-698.58	345.72	203.63	142.09	2.433	
11,900.00	7,480.00	12,148.91	7,610.00	74.83	75.87	112.07	4,254.42	-696.49	346.05	201.20	144.84	2.389	
12,000.00	7,480.00	12,248.91	7,610.00	76.28	77.33	112.04	4,354.40	-694.39	346.37	198.76	147.61	2.347	
12,100.00	7,480.00	12,348.91	7,610.00	77.73	78.78	112.02	4,454.38	-692.30	346.69	196.31	150.38	2.305	
12,200.00	7,480.00	12,448.91	7,610.00	79.18	80.24	112.00	4,554.35	-690.20	347.02	193.85	153.17	2.266	
12,300.00	7,480.00	12,548.91	7,610.00	80.64	81.71	111.98	4,654.33	-688.11	347.34	191.38	155.96	2.227	
12,400.00	7,480.00	12,648.91	7,610.00	82.11	83.18	111.96	4,754.31	-686.02	347.66	188.91	158.75	2.190	
12,500.00	7,480.00	12,748.91	7,610.00	83.57	84.65	111.94	4,854.29	-683.92	347.99	186.43	161.56	2.154	
12,600.00	7,480.00	12,848.91	7,610.00	85.05	86.13	111.92	4,954.26	-681.83	348.31	183.94	164.37	2.119	
12,700.00	7,480.00	12,948.91	7,610.00	86.52	87.61	111.89	5,054.24	-679.73	348.63	181.45	167.19	2.085	
12,800.00	7,480.00	13,048.91	7,610.00	88.00	89.09	111.87	5,154.22	-677.64	348.96	178.94	170.01	2.053	
12,900.00	7,480.00	13,148.91	7,610.00	89.48	90.58	111.85	5,254.19	-675.55	349.28	176.44	172.84	2.021	
13,000.00	7,480.00	13,248.90	7,610.00	90.96	92.06	111.83	5,354.17	-673.45	349.61	173.93	175.68	1.990	
13,100.00	7,480.00	13,348.90	7,610.00	92.45	93.56	111.81	5,454.15	-671.36	349.93	171.41	178.52	1.960	
13,200.00	7,480.00	13,448.90	7,610.00	93.94	95.05	111.79	5,554.13	-669.26	350.25	168.89	181.37	1.931	
13,300.00	7,480.00	13,548.90	7,610.00	95.43	96.54	111.77	5,654.10	-667.17	350.58	166.36	184.22	1.903	
13,339.08	7,480.00	13,587.99	7,610.00	96.01	97.13	111.76	5,693.18	-666.35	350.71	165.37	185.34	1.892	
13,400.00	7,480.00	13,648.90	7,610.00	96.93	98.04	111.71	5,754.08	-665.07	351.50	164.39	187.11	1.879	
13,500.00	7,480.00	13,748.80	7,610.00	98.46	99.54	111.49	5,853.96	-662.98	355.43	165.25	190.18	1.869	
13,600.00	7,480.00	13,848.50	7,610.00	100.01	101.04	111.09	5,953.64	-660.89	362.61	169.20	193.41	1.875	
13,700.00	7,480.00	13,971.93	7,610.00	101.59	102.92	110.53	6,077.04	-660.98	371.34	173.53	197.81	1.877	

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-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		
13,800.00	7,480.00	14,117.22	7,610.00	103.20	105.21	110.43	6,221.30	-677.35	372.56	171.86	200.70	1.856		
13,900.00	7,480.00	14,261.40	7,610.00	104.82	107.57	111.03	6,361.17	-711.92	364.93	164.54	200.39	1.821		
14,000.00	7,480.00	14,397.02	7,610.00	106.47	109.81	112.30	6,487.68	-760.54	348.90	151.11	197.79	1.764		
14,100.00	7,480.00	14,495.27	7,610.00	108.14	111.44	113.37	6,577.48	-800.41	331.70	131.75	199.96	1.659		
14,192.60	7,480.00	14,586.78	7,610.00	109.70	112.98	114.27	6,661.12	-837.55	318.72	116.70	202.02	1.578		
14,200.00	7,480.00	14,594.10	7,610.00	109.82	113.10	114.35	6,667.81	-840.52	317.80	115.60	202.19	1.572		
14,300.00	7,480.00	14,693.16	7,610.00	111.52	114.78	115.41	6,758.35	-880.72	305.35	100.96	204.39	1.494 Level 3		
14,400.00	7,480.00	14,792.22	7,610.00	113.22	116.48	116.55	6,848.88	-920.92	293.02	86.59	206.43	1.419 Level 3		
14,500.00	7,480.00	14,886.04	7,610.00	114.93	118.09	117.73	6,934.63	-958.99	280.86	71.52	209.34	1.342 Level 3		
14,528.90	7,480.00	14,886.04	7,610.00	115.43	118.09	117.73	6,934.63	-958.99	279.37	64.77	214.60	1.302 Level 3, SF		
14,598.91	7,480.00	14,886.04	7,610.00	116.63	118.09	117.73	6,934.63	-958.99	288.01	69.32	218.69	1.317 Level 3		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	90.58	-0.20	20.14	20.14					
100.00	100.00	100.00	100.00	0.14	0.14	90.58	-0.20	20.14	20.14	19.87	0.28	72.976		
200.00	200.00	200.00	200.00	0.50	0.50	90.58	-0.20	20.14	20.14	19.15	0.99	20.286		
300.00	300.00	300.00	300.00	0.85	0.85	90.58	-0.20	20.14	20.14	18.43	1.71	11.780		
400.00	400.00	400.00	400.00	1.21	1.21	90.58	-0.20	20.14	20.14	17.72	2.43	8.300		
500.00	500.00	500.00	500.00	1.57	1.57	90.58	-0.20	20.14	20.14	17.00	3.14	6.407		
600.00	600.00	600.00	600.00	1.93	1.93	90.58	-0.20	20.14	20.14	16.28	3.86	5.217 CC, ES		
700.00	699.98	699.98	699.98	2.28	2.29	-160.47	-0.20	20.14	21.78	17.21	4.57	4.769		
800.00	799.84	799.84	799.84	2.62	2.65	-164.19	-0.20	20.14	26.77	21.50	5.27	5.082		
900.00	899.45	900.47	900.45	2.97	2.99	-166.51	-1.33	18.79	33.75	27.79	5.96	5.659		
1,000.00	998.70	1,001.30	1,001.14	3.34	3.33	-166.49	-4.72	14.71	41.19	34.53	6.66	6.182		
1,102.07	1,099.50	1,104.41	1,103.84	3.73	3.69	-165.15	-10.54	7.72	49.23	41.84	7.39	6.662		
1,200.00	1,195.93	1,203.59	1,202.25	4.12	4.04	-162.69	-18.35	-1.68	55.83	47.73	8.10	6.894		
1,300.00	1,294.40	1,303.66	1,301.26	4.52	4.41	-159.43	-27.66	-12.88	60.90	52.07	8.82	6.903		
1,400.00	1,392.87	1,403.47	1,400.01	4.94	4.79	-156.66	-36.98	-24.08	66.10	56.54	9.56	6.915		
1,500.00	1,491.34	1,503.29	1,498.76	5.36	5.17	-154.30	-46.30	-35.28	71.43	61.12	10.31	6.929		
1,600.00	1,589.81	1,603.11	1,597.50	5.78	5.56	-152.27	-55.61	-46.49	76.86	65.79	11.07	6.942		
1,700.00	1,688.27	1,702.93	1,696.25	6.21	5.95	-150.51	-64.93	-57.69	82.38	70.53	11.85	6.954		
1,800.00	1,786.74	1,802.75	1,795.00	6.64	6.35	-148.97	-74.24	-68.89	87.97	75.34	12.63	6.966		
1,900.00	1,885.21	1,902.56	1,893.75	7.07	6.75	-147.62	-83.56	-80.10	93.61	80.19	13.42	6.976		
2,000.00	1,983.68	2,002.38	1,992.50	7.51	7.15	-146.42	-92.88	-91.30	99.30	85.08	14.21	6.986		
2,100.00	2,082.15	2,102.20	2,091.25	7.95	7.56	-145.35	-102.19	-102.50	105.02	90.01	15.02	6.994		
2,200.00	2,180.62	2,202.02	2,190.00	8.38	7.97	-144.39	-111.51	-113.70	110.78	94.96	15.82	7.002		
2,300.00	2,279.08	2,301.83	2,288.74	8.82	8.37	-143.53	-120.83	-124.91	116.57	99.94	16.63	7.009		
2,400.00	2,377.55	2,401.65	2,387.49	9.26	8.78	-142.75	-130.14	-136.11	122.38	104.94	17.44	7.016		
2,500.00	2,476.02	2,501.47	2,486.24	9.70	9.19	-142.04	-139.46	-147.31	128.22	109.96	18.26	7.022		
2,600.00	2,574.49	2,601.29	2,584.99	10.14	9.60	-141.39	-148.77	-158.52	134.07	114.99	19.08	7.027		
2,700.00	2,672.96	2,701.11	2,683.74	10.59	10.02	-140.79	-158.09	-169.72	139.93	120.03	19.90	7.032		
2,800.00	2,771.43	2,800.92	2,782.49	11.03	10.43	-140.25	-167.41	-180.92	145.81	125.09	20.72	7.036		
2,900.00	2,869.89	2,900.74	2,881.24	11.47	10.84	-139.74	-176.72	-192.13	151.70	130.16	21.55	7.041		
3,000.00	2,968.36	3,000.56	2,979.98	11.91	11.26	-139.28	-186.04	-203.33	157.61	135.23	22.37	7.045		
3,100.00	3,066.83	3,100.38	3,078.73	12.36	11.67	-138.85	-195.36	-214.53	163.52	140.32	23.20	7.048		
3,200.00	3,165.30	3,200.19	3,177.48	12.80	12.09	-138.44	-204.67	-225.73	169.44	145.41	24.03	7.051		
3,300.00	3,263.77	3,300.01	3,276.23	13.25	12.50	-138.07	-213.99	-236.94	175.37	150.51	24.86	7.055		
3,400.00	3,362.23	3,399.83	3,374.98	13.69	12.92	-137.72	-223.30	-248.14	181.30	155.61	25.69	7.058		
3,500.00	3,460.70	3,499.65	3,473.73	14.14	13.34	-137.39	-232.62	-259.34	187.25	160.72	26.52	7.060		
3,600.00	3,559.17	3,599.46	3,572.48	14.58	13.75	-137.08	-241.94	-270.55	193.19	165.84	27.35	7.063		
3,700.00	3,657.64	3,699.28	3,671.22	15.03	14.17	-136.79	-251.25	-281.75	199.15	170.96	28.19	7.065		
3,800.00	3,756.11	3,799.10	3,769.97	15.47	14.59	-136.52	-260.57	-292.95	205.10	176.08	29.02	7.068		
3,900.00	3,854.58	3,898.92	3,868.72	15.92	15.01	-136.26	-269.89	-304.16	211.07	181.21	29.86	7.070		
4,000.00	3,953.04	3,998.74	3,967.47	16.36	15.42	-136.02	-279.20	-315.36	217.03	186.34	30.69	7.072		
4,100.00	4,051.51	4,098.55	4,066.22	16.81	15.84	-135.79	-288.52	-326.56	223.00	191.48	31.53	7.074		
4,200.00	4,149.98	4,198.37	4,164.97	17.26	16.26	-135.57	-297.83	-337.76	228.98	196.61	32.36	7.075		
4,300.00	4,248.45	4,298.19	4,263.72	17.70	16.68	-135.36	-307.15	-348.97	234.95	201.75	33.20	7.077		
4,400.00	4,346.92	4,398.01	4,362.46	18.15	17.10	-135.16	-316.47	-360.17	240.93	206.90	34.04	7.079		
4,500.00	4,445.38	4,497.82	4,461.21	18.60	17.52	-134.98	-325.78	-371.37	246.91	212.04	34.87	7.080		
4,600.00	4,543.85	4,597.64	4,559.96	19.04	17.93	-134.80	-335.10	-382.58	252.90	217.19	35.71	7.082		
4,700.00	4,642.32	4,697.46	4,658.71	19.49	18.35	-134.63	-344.42	-393.78	258.88	222.34	36.55	7.083		
4,800.00	4,740.79	4,797.28	4,757.46	19.94	18.77	-134.46	-353.73	-404.98	264.87	227.49	37.39	7.085		
4,900.00	4,839.26	4,897.10	4,856.21	20.38	19.19	-134.31	-363.05	-416.19	270.86	232.64	38.23	7.086		
5,000.00	4,937.73	4,996.91	4,954.96	20.83	19.61	-134.16	-372.36	-427.39	276.86	237.79	39.06	7.087		
5,100.00	5,036.19	5,096.73	5,053.70	21.28	20.03	-134.02	-381.68	-438.59	282.85	242.95	39.90	7.088		

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	5,134.66	5,196.55	5,152.45	21.73	20.45	-133.88	-391.00	-449.79	288.85	248.11	40.74	7.090	
5,300.00	5,233.13	5,296.37	5,251.20	22.17	20.87	-133.75	-400.31	-461.00	294.85	253.26	41.58	7.091	
5,400.00	5,331.60	5,396.18	5,349.95	22.62	21.29	-133.62	-409.63	-472.20	300.85	258.42	42.42	7.092	
5,500.00	5,430.07	5,496.00	5,448.70	23.07	21.71	-133.50	-418.95	-483.40	306.85	263.58	43.26	7.093	
5,600.00	5,528.54	5,595.82	5,547.45	23.52	22.13	-133.39	-428.26	-494.61	312.85	268.75	44.10	7.094	
5,700.00	5,627.00	5,695.64	5,646.20	23.96	22.55	-133.28	-437.58	-505.81	318.85	273.91	44.94	7.095	
5,800.00	5,725.47	5,795.46	5,744.94	24.41	22.97	-133.17	-446.89	-517.01	324.86	279.07	45.78	7.096	
5,900.00	5,823.94	5,895.27	5,843.69	24.86	23.39	-133.06	-456.21	-528.22	330.86	284.24	46.62	7.096	
6,000.00	5,922.41	5,995.09	5,942.44	25.31	23.81	-132.96	-465.53	-539.42	336.87	289.40	47.46	7.097	
6,100.00	6,020.88	6,094.91	6,041.19	25.75	24.23	-132.87	-474.84	-550.62	342.88	294.57	48.31	7.098	
6,200.00	6,119.34	6,194.73	6,139.94	26.20	24.65	-132.78	-484.16	-561.83	348.89	299.74	49.15	7.099	
6,300.00	6,217.81	6,294.54	6,238.69	26.65	25.07	-132.68	-493.48	-573.03	354.90	304.91	49.99	7.100	
6,400.00	6,316.28	6,394.36	6,337.44	27.10	25.49	-132.60	-502.79	-584.23	360.91	310.08	50.83	7.100	
6,500.00	6,414.75	6,494.18	6,436.18	27.54	25.91	-132.51	-512.11	-595.43	366.92	315.25	51.67	7.101	
6,600.00	6,513.22	6,594.00	6,534.93	27.99	26.33	-132.43	-521.42	-606.64	372.93	320.42	52.51	7.102	
6,700.00	6,611.69	6,700.83	6,640.67	28.44	26.78	-132.43	-530.79	-618.63	378.73	325.35	53.38	7.095	
6,800.00	6,710.15	6,830.26	6,769.02	28.89	27.23	-134.62	-525.88	-633.10	378.99	325.10	53.89	7.033	
6,818.10	6,727.97	6,852.99	6,791.37	28.97	27.30	-135.33	-522.61	-635.61	378.28	324.37	53.91	7.017	
6,850.00	6,759.42	6,892.49	6,829.93	29.11	27.41	-151.07	-515.24	-639.93	376.86	322.94	53.92	6.990	
6,900.00	6,808.74	6,953.18	6,888.24	29.32	27.56	-176.86	-499.79	-646.43	374.65	320.77	53.88	6.953	
6,950.00	6,857.89	7,012.41	6,943.69	29.51	27.68	161.93	-479.97	-652.59	372.55	318.73	53.82	6.923	
7,000.00	6,906.63	7,070.18	6,996.04	29.69	27.79	146.85	-456.25	-658.38	370.64	316.89	53.75	6.895	
7,050.00	6,954.71	7,126.55	7,045.12	29.85	27.88	136.15	-429.11	-663.78	369.01	315.29	53.72	6.869	
7,100.00	7,001.91	7,181.54	7,090.83	30.00	27.94	128.14	-398.95	-668.79	367.71	313.98	53.73	6.843	
7,150.00	7,048.00	7,235.24	7,133.11	30.13	28.00	121.78	-366.20	-673.39	366.81	313.02	53.79	6.819	
7,200.00	7,092.75	7,287.69	7,171.94	30.25	28.04	116.48	-331.21	-677.59	366.33	312.44	53.89	6.798	
7,228.15	7,117.28	7,316.70	7,192.29	30.31	28.05	113.83	-310.66	-679.79	366.26	312.30	53.96	6.788	
7,250.00	7,135.95	7,338.96	7,207.35	30.36	28.06	111.90	-294.33	-681.40	366.30	312.29	54.01	6.782	
7,300.00	7,177.37	7,389.13	7,239.37	30.45	28.08	107.83	-255.88	-684.82	366.73	312.58	54.15	6.772	
7,350.00	7,216.83	7,438.25	7,268.06	30.53	28.09	104.14	-216.13	-687.85	367.62	313.34	54.28	6.772	
7,400.00	7,254.13	7,486.40	7,293.49	30.60	28.09	100.76	-175.34	-690.51	368.95	314.55	54.40	6.783	
7,450.00	7,289.09	7,533.64	7,315.74	30.66	28.08	97.63	-133.74	-692.80	370.68	316.21	54.47	6.805	
7,500.00	7,321.53	7,580.04	7,334.89	30.70	28.06	94.72	-91.54	-694.75	372.80	318.29	54.50	6.840	
7,550.00	7,351.30	7,625.65	7,351.03	30.74	28.05	92.00	-48.92	-696.35	375.24	320.75	54.49	6.887	
7,600.00	7,378.26	7,670.53	7,364.26	30.77	28.03	89.47	-6.06	-697.62	377.97	323.55	54.42	6.945	
7,650.00	7,402.27	7,714.73	7,374.65	30.80	28.01	87.10	36.89	-698.57	380.93	326.61	54.31	7.013	
7,700.00	7,423.21	7,758.31	7,382.30	30.82	28.00	84.90	79.78	-699.20	384.05	329.89	54.17	7.090	
7,750.00	7,440.99	7,800.00	7,387.18	30.83	28.00	82.90	121.17	-699.54	387.29	333.31	53.99	7.174	
7,800.00	7,455.51	7,843.80	7,389.72	30.85	28.03	80.96	164.89	-699.60	390.59	336.78	53.81	7.259	
7,850.00	7,466.72	7,889.48	7,390.00	30.88	28.13	79.17	210.57	-699.39	393.76	340.11	53.65	7.339	
7,900.00	7,474.54	7,938.85	7,390.00	30.91	28.31	77.82	259.93	-699.13	396.03	342.38	53.65	7.382	
7,950.00	7,478.95	7,988.64	7,390.00	30.95	28.53	77.06	309.73	-698.87	397.10	343.29	53.81	7.380	
7,989.08	7,480.00	8,027.70	7,390.00	31.00	28.73	76.90	348.79	-698.67	397.04	342.97	54.08	7.342	
8,000.00	7,480.00	8,038.62	7,390.00	31.02	28.79	76.89	359.71	-698.61	396.91	342.74	54.17	7.327	
8,100.00	7,480.00	8,138.61	7,390.00	31.22	29.38	76.85	459.70	-698.08	395.73	340.63	55.10	7.182	
8,200.00	7,480.00	8,238.60	7,390.00	31.54	30.04	76.81	559.69	-697.56	394.54	338.36	56.18	7.023	
8,300.00	7,480.00	8,338.60	7,390.00	31.98	30.77	76.77	659.68	-697.04	393.35	335.95	57.40	6.853	
8,400.00	7,480.00	8,438.59	7,390.00	32.54	31.56	76.73	759.67	-696.51	392.16	333.40	58.76	6.674	
8,500.00	7,480.00	8,538.58	7,390.00	33.19	32.40	76.69	859.66	-695.99	390.97	330.72	60.24	6.490	
8,600.00	7,480.00	8,638.57	7,390.00	33.93	33.29	76.65	959.65	-695.47	389.78	327.93	61.85	6.302	
8,700.00	7,480.00	8,738.57	7,390.00	34.73	34.22	76.61	1,059.64	-694.94	388.59	325.03	63.56	6.114	
8,800.00	7,480.00	8,838.56	7,390.00	35.58	35.20	76.57	1,159.64	-694.42	387.40	322.03	65.37	5.927	

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	7,480.00	8,938.55	7,390.00	36.49	36.23	76.52	1,259.63	-693.90	386.21	318.94	67.27	5.741	
9,000.00	7,480.00	9,038.54	7,390.00	37.45	37.29	76.48	1,359.62	-693.37	385.03	315.77	69.26	5.560	
9,100.00	7,480.00	9,138.54	7,390.00	38.45	38.38	76.44	1,459.61	-692.85	383.84	312.52	71.32	5.382	
9,200.00	7,480.00	9,238.53	7,390.00	39.49	39.50	76.40	1,559.60	-692.33	382.65	309.20	73.45	5.210	
9,300.00	7,480.00	9,338.52	7,390.00	40.56	40.66	76.35	1,659.59	-691.80	381.46	305.82	75.65	5.043	
9,400.00	7,480.00	9,438.51	7,390.00	41.66	41.84	76.31	1,759.58	-691.28	380.28	302.37	77.90	4.881	
9,500.00	7,480.00	9,538.51	7,390.00	42.79	43.05	76.27	1,859.57	-690.76	379.09	298.88	80.21	4.726	
9,600.00	7,480.00	9,638.50	7,390.00	43.95	44.28	76.22	1,959.57	-690.23	377.90	295.33	82.57	4.577	
9,700.00	7,480.00	9,738.49	7,390.00	45.13	45.53	76.18	2,059.56	-689.71	376.72	291.74	84.97	4.433	
9,800.00	7,480.00	9,838.49	7,390.00	46.34	46.80	76.13	2,159.55	-689.18	375.53	288.12	87.42	4.296	
9,900.00	7,480.00	9,938.48	7,390.00	47.57	48.08	76.09	2,259.54	-688.66	374.34	284.45	89.90	4.164	
10,000.00	7,480.00	10,038.47	7,390.00	48.82	49.39	76.04	2,359.53	-688.14	373.16	280.75	92.41	4.038	
10,100.00	7,480.00	10,138.46	7,390.00	50.08	50.71	76.00	2,459.52	-687.61	371.97	277.02	94.96	3.917	
10,200.00	7,480.00	10,238.46	7,390.00	51.36	52.04	75.95	2,559.51	-687.09	370.79	273.25	97.53	3.802	
10,300.00	7,480.00	10,338.45	7,390.00	52.66	53.39	75.91	2,659.50	-686.57	369.60	269.47	100.13	3.691	
10,400.00	7,480.00	10,438.44	7,390.00	53.97	54.75	75.86	2,759.49	-686.04	368.42	265.66	102.76	3.585	
10,500.00	7,480.00	10,538.43	7,390.00	55.29	56.12	75.81	2,859.49	-685.52	367.23	261.82	105.41	3.484	
10,600.00	7,480.00	10,638.43	7,390.00	56.63	57.50	75.77	2,959.48	-685.00	366.05	257.97	108.08	3.387	
10,700.00	7,480.00	10,738.42	7,390.00	57.98	58.89	75.72	3,059.47	-684.47	364.86	254.10	110.77	3.294	
10,800.00	7,480.00	10,838.41	7,390.00	59.34	60.25	75.68	3,159.46	-683.94	363.67	250.23	113.44	3.210	
10,814.64	7,480.00	10,848.40	7,390.00	59.54	60.43	75.67	3,169.49	-683.68	363.74	250.09	113.65	3.200	
10,900.00	7,480.00	10,938.39	7,390.00	60.71	61.59	75.69	3,259.48	-683.15	362.51	246.20	115.88	3.143	
11,000.00	7,480.00	11,038.38	7,390.00	62.09	62.99	75.72	3,359.47	-682.62	361.28	242.31	118.64	3.075	
11,100.00	7,480.00	11,138.37	7,390.00	63.47	64.40	75.74	3,459.46	-682.09	360.04	238.42	121.42	3.010	
11,200.00	7,480.00	11,238.36	7,390.00	64.87	65.81	75.77	3,559.45	-681.56	358.79	234.53	124.22	2.947	
11,300.00	7,480.00	11,338.35	7,390.00	66.27	67.24	75.79	3,659.44	-681.03	357.54	230.64	127.02	2.887	
11,400.00	7,480.00	11,438.34	7,390.00	67.68	68.66	75.82	3,759.43	-680.50	356.29	226.75	129.85	2.829	
11,500.00	7,480.00	11,538.33	7,390.00	69.10	70.10	75.84	3,859.42	-680.00	355.04	222.86	132.68	2.774	
11,600.00	7,480.00	11,638.32	7,390.00	70.53	71.54	75.87	3,959.41	-679.49	353.79	218.97	135.52	2.720	
11,700.00	7,480.00	11,738.31	7,390.00	71.96	72.98	75.89	4,059.40	-678.98	352.54	215.08	138.38	2.668	
11,800.00	7,480.00	11,838.30	7,390.00	73.39	74.43	75.92	4,159.39	-678.47	351.29	211.19	141.24	2.619	
11,900.00	7,480.00	11,938.29	7,390.00	74.83	75.89	75.94	4,259.38	-677.96	350.04	207.30	144.11	2.571	
12,000.00	7,480.00	12,038.28	7,390.00	76.28	77.34	75.97	4,359.37	-677.45	348.79	203.41	146.99	2.525	
12,100.00	7,480.00	12,138.27	7,390.00	77.73	78.81	75.99	4,459.36	-676.94	347.54	199.52	149.88	2.480	
12,200.00	7,480.00	12,238.26	7,390.00	79.18	80.27	76.01	4,559.35	-676.43	346.29	195.63	152.78	2.437	
12,300.00	7,480.00	12,338.25	7,390.00	80.64	81.74	76.04	4,659.34	-675.92	345.04	191.74	155.69	2.396	
12,400.00	7,480.00	12,438.24	7,390.00	82.11	83.22	76.06	4,759.33	-675.41	343.79	187.85	158.60	2.356	
12,500.00	7,480.00	12,538.23	7,390.00	83.57	84.69	76.09	4,859.32	-674.90	342.54	183.96	161.52	2.317	
12,600.00	7,480.00	12,638.22	7,390.00	85.05	86.17	76.11	4,959.31	-674.39	341.29	179.97	164.45	2.280	
12,700.00	7,480.00	12,738.21	7,390.00	86.52	87.66	76.13	5,059.30	-673.88	340.04	176.08	167.38	2.244	
12,800.00	7,480.00	12,838.20	7,390.00	88.00	89.14	76.16	5,159.29	-673.37	338.79	172.19	170.32	2.209	
12,900.00	7,480.00	12,938.19	7,390.00	89.48	90.63	76.18	5,259.28	-672.86	337.54	168.30	173.26	2.175	
13,000.00	7,480.00	13,038.18	7,390.00	90.96	92.12	76.21	5,359.27	-672.35	336.29	164.41	176.21	2.142	
13,100.00	7,480.00	13,138.17	7,390.00	92.45	93.62	76.23	5,459.26	-671.84	335.04	160.52	179.16	2.110	
13,200.00	7,480.00	13,238.16	7,390.00	93.94	95.11	76.25	5,559.25	-671.33	333.79	156.63	182.12	2.079	
13,300.00	7,480.00	13,338.15	7,390.00	95.43	96.61	76.28	5,659.24	-670.82	332.54	152.74	185.08	2.050	
13,339.08	7,480.00	13,370.84	7,390.00	96.01	97.20	76.28	5,691.17	-623.34	379.59	193.35	186.24	2.038	
13,400.00	7,480.00	13,431.75	7,390.00	96.93	98.11	76.32	5,752.06	-621.88	380.60	192.54	188.07	2.024	
13,500.00	7,480.00	13,538.54	7,390.00	98.46	99.72	76.45	5,858.83	-619.81	384.58	193.05	191.54	2.008	
13,600.00	7,480.00	13,653.55	7,390.00	100.01	101.48	76.60	5,973.82	-621.49	388.63	193.33	195.30	1.990	
13,700.00	7,480.00	13,768.77	7,390.00	101.59	103.28	76.73	6,088.85	-627.79	392.16	193.33	198.83	1.972	
13,800.00	7,480.00	13,875.44	7,390.00	103.20	104.97	76.84	6,195.11	-637.20	395.80	193.68	202.12	1.958 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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design										S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2				Offset Site Error:		0.00 usft	
Survey Program: 0-MWD+HDGM														Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	7,480.00	13,975.20	7,390.00	104.82	106.55	77.03	6,294.44	-646.42	402.46	197.01	205.44	1.959					
14,000.00	7,480.00	14,074.67	7,390.00	106.47	108.14	77.31	6,393.48	-655.60	412.51	203.65	208.86	1.975					
14,100.00	7,480.00	14,173.71	7,390.00	108.14	109.72	77.66	6,492.10	-664.75	425.97	213.61	212.35	2.006					
14,192.60	7,480.00	14,264.94	7,390.00	109.70	111.17	78.03	6,582.94	-673.18	441.45	225.81	215.64	2.047					
14,200.00	7,480.00	14,272.21	7,390.00	109.82	111.29	78.07	6,590.18	-673.85	442.81	226.90	215.91	2.051					
14,300.00	7,480.00	14,370.45	7,390.00	111.52	112.86	78.55	6,688.00	-682.92	461.12	241.66	219.46	2.101					
14,400.00	7,480.00	14,468.69	7,390.00	113.22	114.43	78.99	6,785.82	-692.00	479.46	256.46	223.00	2.150					
14,500.00	7,480.00	14,566.92	7,390.00	114.93	116.01	79.40	6,883.64	-701.07	497.83	271.31	226.52	2.198					
14,598.91	7,480.00	14,619.31	7,390.00	116.63	116.78	79.61	6,935.79	-705.91	517.96	289.43	228.53	2.266					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4H-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	90.33	-0.17	29.93	29.93				
100.00	100.00	100.00	100.00	0.14	0.14	90.33	-0.17	29.93	29.93	29.66	0.28	107.744	
200.00	200.00	200.00	200.00	0.50	0.50	90.33	-0.17	29.93	29.93	28.94	0.99	30.091 CC	
201.15	201.15	201.15	201.15	0.50	0.50	90.33	-0.17	29.93	29.93	28.93	1.00	29.848	
300.00	300.00	299.95	299.93	0.85	0.84	93.66	-1.91	29.93	29.99	28.30	1.70	17.677 ES	
400.00	400.00	399.66	399.50	1.21	1.19	103.39	-7.13	29.93	30.77	28.37	2.41	12.791	
500.00	500.00	500.03	499.54	1.57	1.55	117.84	-15.02	28.43	32.16	29.03	3.12	10.297	
600.00	600.00	599.90	598.84	1.93	1.92	135.82	-24.64	23.94	34.37	30.51	3.86	8.903	
700.00	699.98	699.23	697.24	2.28	2.31	-96.45	-35.95	16.51	39.81	35.20	4.61	8.633	
800.00	799.84	798.59	795.45	2.62	2.71	-86.20	-48.14	7.57	48.02	42.67	5.35	8.979	
900.00	899.45	898.16	893.85	2.97	3.12	-82.49	-60.37	-1.39	56.72	50.64	6.08	9.333	
1,000.00	998.70	997.80	992.33	3.34	3.53	-82.77	-72.60	-10.36	65.05	58.23	6.82	9.538	
1,102.07	1,099.50	1,099.47	1,092.81	3.73	3.95	-85.76	-85.08	-19.51	73.22	65.61	7.61	9.624	
1,200.00	1,195.93	1,196.95	1,189.16	4.12	4.36	-89.41	-97.05	-28.28	81.19	72.80	8.39	9.675	
1,300.00	1,294.40	1,296.50	1,287.55	4.52	4.77	-92.46	-109.27	-37.24	89.60	80.39	9.21	9.732	
1,400.00	1,392.87	1,396.04	1,385.93	4.94	5.19	-94.98	-121.49	-46.20	98.22	88.19	10.03	9.790	
1,500.00	1,491.34	1,495.58	1,484.31	5.36	5.61	-97.09	-133.71	-55.15	107.01	96.14	10.87	9.846	
1,600.00	1,589.81	1,595.12	1,582.69	5.78	6.03	-98.88	-145.93	-64.11	115.91	104.20	11.71	9.901	
1,700.00	1,688.27	1,694.67	1,681.08	6.21	6.46	-100.41	-158.15	-73.07	124.91	112.36	12.55	9.952	
1,800.00	1,786.74	1,794.21	1,779.46	6.64	6.88	-101.74	-170.37	-82.03	133.99	120.59	13.40	10.001	
1,900.00	1,885.21	1,893.75	1,877.84	7.07	7.30	-102.90	-182.59	-90.99	143.13	128.88	14.25	10.047	
2,000.00	1,983.68	1,993.29	1,976.22	7.51	7.72	-103.92	-194.81	-99.95	152.32	137.22	15.10	10.090	
2,100.00	2,082.15	2,092.84	2,074.60	7.95	8.14	-104.82	-207.04	-108.90	161.55	145.60	15.95	10.130	
2,200.00	2,180.62	2,192.38	2,172.99	8.38	8.57	-105.62	-219.26	-117.86	170.82	154.02	16.80	10.167	
2,300.00	2,279.08	2,291.92	2,271.37	8.82	8.99	-106.35	-231.48	-126.82	180.12	162.46	17.65	10.202	
2,400.00	2,377.55	2,391.46	2,369.75	9.26	9.41	-107.00	-243.70	-135.78	189.44	170.93	18.51	10.235	
2,500.00	2,476.02	2,491.01	2,468.13	9.70	9.84	-107.59	-255.92	-144.74	198.78	179.42	19.36	10.266	
2,600.00	2,574.49	2,590.55	2,566.52	10.14	10.26	-108.12	-268.14	-153.70	208.15	187.93	20.22	10.295	
2,700.00	2,672.96	2,690.09	2,664.90	10.59	10.69	-108.61	-280.36	-162.65	217.53	196.46	21.07	10.322	
2,800.00	2,771.43	2,789.63	2,763.28	11.03	11.11	-109.06	-292.58	-171.61	226.93	205.00	21.93	10.348	
2,900.00	2,869.89	2,889.18	2,861.66	11.47	11.53	-109.48	-304.80	-180.57	236.33	213.55	22.79	10.372	
3,000.00	2,968.36	2,988.72	2,960.05	11.91	11.96	-109.86	-317.02	-189.53	245.75	222.11	23.64	10.394	
3,100.00	3,066.83	3,088.26	3,058.43	12.36	12.38	-110.22	-329.24	-198.49	255.18	230.68	24.50	10.416	
3,200.00	3,165.30	3,187.80	3,156.81	12.80	12.81	-110.54	-341.46	-207.44	264.62	239.27	25.36	10.436	
3,300.00	3,263.77	3,287.35	3,255.19	13.25	13.23	-110.85	-353.68	-216.40	274.07	247.86	26.21	10.455	
3,400.00	3,362.23	3,386.89	3,353.58	13.69	13.65	-111.14	-365.90	-225.36	283.52	256.45	27.07	10.473	
3,500.00	3,460.70	3,486.43	3,451.96	14.14	14.08	-111.40	-378.12	-234.32	292.98	265.06	27.93	10.491	
3,600.00	3,559.17	3,585.97	3,550.34	14.58	14.50	-111.65	-390.34	-243.28	302.45	273.67	28.79	10.507	
3,700.00	3,657.64	3,685.52	3,648.72	15.03	14.93	-111.89	-402.56	-252.24	311.92	282.28	29.64	10.523	
3,800.00	3,756.11	3,785.06	3,747.11	15.47	15.35	-112.11	-414.78	-261.19	321.40	290.90	30.50	10.538	
3,900.00	3,854.58	3,884.60	3,845.49	15.92	15.78	-112.32	-427.01	-270.15	330.88	299.52	31.36	10.552	
4,000.00	3,953.04	3,984.14	3,943.87	16.36	16.20	-112.52	-439.23	-279.11	340.37	308.15	32.22	10.565	
4,100.00	4,051.51	4,083.68	4,042.25	16.81	16.63	-112.70	-451.45	-288.07	349.86	316.78	33.07	10.578	
4,200.00	4,149.98	4,183.23	4,140.64	17.26	17.05	-112.88	-463.67	-297.03	359.35	325.42	33.93	10.591	
4,300.00	4,248.45	4,282.77	4,239.02	17.70	17.48	-113.05	-475.89	-305.99	368.84	334.06	34.79	10.602	
4,400.00	4,346.92	4,382.31	4,337.40	18.15	17.90	-113.21	-488.11	-314.94	378.34	342.70	35.65	10.614	
4,500.00	4,445.38	4,481.85	4,435.78	18.60	18.33	-113.36	-500.33	-323.90	387.85	351.34	36.50	10.625	
4,600.00	4,543.85	4,581.40	4,534.17	19.04	18.75	-113.50	-512.55	-332.86	397.35	359.99	37.36	10.635	
4,700.00	4,642.32	4,682.52	4,634.23	19.49	19.17	-113.77	-524.26	-341.45	406.72	368.50	38.22	10.641	
4,800.00	4,740.79	4,784.18	4,735.28	19.94	19.57	-114.49	-533.28	-348.06	415.60	376.55	39.06	10.641	
4,900.00	4,839.26	4,885.45	4,836.26	20.38	19.95	-115.66	-539.39	-352.54	424.09	384.25	39.85	10.643	
5,000.00	4,937.73	4,986.08	4,936.80	20.83	20.29	-117.24	-542.61	-354.90	432.40	391.80	40.60	10.651	

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4H-26H-P268 - OH - PLAN #2												Offset Site Error: 0.00 usft		
Survey Program: 0-MWD+HDGM												Offset Well Error: 0.00 usft		
Reference				Offset		Semi Major Axis				Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.00	5,036.19	5,085.48	5,036.19	21.28	20.59	-119.16	-543.17	-355.31	440.80	399.52	41.27	10.680		
5,200.00	5,134.66	5,183.95	5,134.66	21.73	20.87	-121.08	-543.17	-355.31	449.65	407.73	41.92	10.727		
5,300.00	5,233.13	5,282.41	5,233.13	22.17	21.14	-122.92	-543.17	-355.31	458.99	416.44	42.55	10.786		
5,400.00	5,331.60	5,380.88	5,331.60	22.62	21.43	-124.69	-543.17	-355.31	468.80	425.61	43.18	10.856		
5,500.00	5,430.07	5,479.35	5,430.07	23.07	21.71	-126.39	-543.17	-355.31	479.04	435.23	43.81	10.935		
5,600.00	5,528.54	5,577.82	5,528.54	23.52	22.00	-128.02	-543.17	-355.31	489.68	445.26	44.43	11.022		
5,700.00	5,627.00	5,676.29	5,627.00	23.96	22.28	-129.58	-543.17	-355.31	500.71	455.66	45.05	11.115		
5,800.00	5,725.47	5,774.76	5,725.47	24.41	22.57	-131.07	-543.17	-355.31	512.10	466.43	45.66	11.214		
5,900.00	5,823.94	5,873.22	5,823.94	24.86	22.86	-132.49	-543.17	-355.31	523.81	477.53	46.28	11.318		
6,000.00	5,922.41	5,971.69	5,922.41	25.31	23.16	-133.86	-543.17	-355.31	535.84	488.95	46.90	11.426		
6,100.00	6,020.88	6,070.16	6,020.88	25.75	23.45	-135.16	-543.17	-355.31	548.16	500.65	47.51	11.538		
6,200.00	6,119.34	6,168.63	6,119.34	26.20	23.75	-136.41	-543.17	-355.31	560.75	512.63	48.13	11.652		
6,300.00	6,217.81	6,267.10	6,217.81	26.65	24.05	-137.60	-543.17	-355.31	573.60	524.86	48.74	11.768		
6,400.00	6,316.28	6,365.56	6,316.28	27.10	24.35	-138.74	-543.17	-355.31	586.68	537.32	49.36	11.885		
6,500.00	6,414.75	6,464.03	6,414.75	27.54	24.65	-139.83	-543.17	-355.31	599.98	550.00	49.98	12.004		
6,600.00	6,513.22	6,562.50	6,513.22	27.99	24.95	-140.88	-543.17	-355.31	613.49	562.89	50.60	12.123		
6,700.00	6,611.69	6,660.97	6,611.69	28.44	25.25	-141.88	-543.17	-355.31	627.20	575.97	51.23	12.243		
6,800.00	6,710.15	6,759.44	6,710.15	28.89	25.56	-142.83	-543.17	-355.31	641.08	589.23	51.86	12.363		
6,818.10	6,727.97	6,777.26	6,727.97	28.97	25.61	-143.00	-543.17	-355.31	643.61	591.65	51.97	12.385		
6,850.00	6,759.42	6,808.71	6,759.42	29.11	25.71	-158.08	-543.17	-355.31	648.28	596.10	52.17	12.426		
6,900.00	6,808.74	6,872.77	6,823.41	29.32	25.90	177.23	-540.69	-355.31	655.82	603.23	52.58	12.472		
6,950.00	6,857.89	6,938.07	6,888.16	29.51	26.08	157.12	-532.29	-355.33	663.02	610.09	52.93	12.527		
7,000.00	6,906.63	7,003.05	6,951.55	29.69	26.24	143.15	-518.12	-355.36	669.85	616.66	53.20	12.592		
7,050.00	6,954.71	7,067.56	7,012.96	29.85	26.39	133.56	-498.43	-355.40	676.31	622.92	53.40	12.665		
7,100.00	7,001.91	7,131.49	7,071.82	30.00	26.52	126.66	-473.55	-355.45	682.39	628.84	53.55	12.742		
7,150.00	7,048.00	7,194.72	7,127.64	30.13	26.63	121.40	-443.87	-355.51	688.08	634.41	53.67	12.820		
7,200.00	7,092.75	7,257.17	7,179.98	30.25	26.72	117.19	-409.84	-355.58	693.39	639.62	53.77	12.895		
7,250.00	7,135.95	7,318.76	7,228.50	30.36	26.81	113.69	-371.95	-355.65	698.31	644.45	53.86	12.965		
7,300.00	7,177.37	7,379.41	7,272.93	30.45	26.88	110.67	-330.69	-355.74	702.85	648.90	53.96	13.026		
7,350.00	7,216.83	7,439.09	7,313.08	30.53	26.95	108.01	-286.57	-355.83	707.02	652.95	54.06	13.077		
7,400.00	7,254.13	7,497.75	7,348.85	30.60	27.01	105.62	-240.09	-355.92	710.81	656.62	54.19	13.117		
7,450.00	7,289.09	7,555.38	7,380.16	30.66	27.07	103.45	-191.73	-356.02	714.24	659.90	54.34	13.143		
7,500.00	7,321.53	7,611.96	7,407.02	30.70	27.14	101.46	-141.94	-356.12	717.31	662.79	54.52	13.157		
7,550.00	7,351.30	7,667.50	7,429.49	30.74	27.22	99.62	-91.17	-356.22	720.02	665.31	54.72	13.159		
7,600.00	7,378.26	7,722.01	7,447.65	30.77	27.31	97.91	-39.79	-356.33	722.38	667.44	54.94	13.149		
7,650.00	7,402.27	7,775.50	7,461.62	30.80	27.41	96.33	11.83	-356.43	724.38	669.20	55.18	13.128		
7,700.00	7,423.21	7,828.00	7,471.56	30.82	27.53	94.86	63.37	-356.54	726.03	670.60	55.43	13.098		
7,750.00	7,440.99	7,879.54	7,477.61	30.83	27.67	93.49	114.54	-356.64	727.33	671.64	55.69	13.060		
7,800.00	7,455.51	7,930.14	7,479.96	30.85	27.83	92.22	165.08	-356.74	728.27	672.31	55.96	13.014		
7,850.00	7,466.72	7,979.12	7,480.00	30.88	28.00	91.16	214.06	-356.84	728.88	672.63	56.25	12.959		
7,900.00	7,474.54	8,028.50	7,480.00	30.91	28.20	90.43	263.44	-356.94	729.10	672.52	56.58	12.886		
7,950.00	7,478.95	8,078.29	7,480.00	30.95	28.43	90.05	313.23	-357.04	728.84	671.88	56.96	12.795		
7,989.08	7,480.00	8,117.35	7,480.00	31.00	28.62	90.00	352.29	-357.12	728.25	670.94	57.31	12.708		
8,000.00	7,480.00	8,128.27	7,480.00	31.02	28.68	90.00	363.20	-357.14	728.04	670.63	57.41	12.681		
8,100.00	7,480.00	8,228.25	7,480.00	31.22	29.24	90.00	463.18	-357.34	726.09	667.66	58.44	12.425		
8,200.00	7,480.00	8,328.23	7,480.00	31.54	29.88	90.00	563.17	-357.55	724.14	664.54	59.61	12.148		
8,300.00	7,480.00	8,428.21	7,480.00	31.98	30.59	90.00	663.15	-357.75	722.20	661.27	60.92	11.854		
8,400.00	7,480.00	8,528.19	7,480.00	32.54	31.36	90.00	763.13	-357.95	720.25	657.88	62.37	11.548		
8,500.00	7,480.00	8,628.17	7,480.00	33.19	32.20	90.00	863.11	-358.15	718.30	654.36	63.94	11.235		
8,600.00	7,480.00	8,728.15	7,480.00	33.93	33.09	90.00	963.09	-358.36	716.35	650.73	65.62	10.917		
8,700.00	7,480.00	8,828.13	7,480.00	34.73	34.04	90.00	1,063.07	-358.56	714.41	647.00	67.41	10.598		
8,800.00	7,480.00	8,928.11	7,480.00	35.58	35.02	90.00	1,163.05	-358.76	712.46	643.16	69.29	10.282		

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4H-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,900.00	7,480.00	9,028.09	7,480.00	36.49	36.05	90.00	1,263.03	-358.96	710.51	639.24	71.27	9.969	
9,000.00	7,480.00	9,128.08	7,480.00	37.45	37.12	90.00	1,363.01	-359.17	708.56	635.24	73.33	9.663	
9,100.00	7,480.00	9,228.06	7,480.00	38.45	38.23	90.00	1,462.99	-359.37	706.62	631.15	75.46	9.364	
9,200.00	7,480.00	9,328.04	7,480.00	39.49	39.37	90.00	1,562.97	-359.57	704.67	627.00	77.67	9.073	
9,300.00	7,480.00	9,428.02	7,480.00	40.56	40.54	90.00	1,662.95	-359.77	702.72	622.79	79.93	8.791	
9,400.00	7,480.00	9,528.00	7,480.00	41.66	41.73	90.00	1,762.94	-359.97	700.77	618.51	82.26	8.519	
9,500.00	7,480.00	9,627.98	7,480.00	42.79	42.95	90.00	1,862.92	-360.18	698.83	614.19	84.64	8.257	
9,600.00	7,480.00	9,727.96	7,480.00	43.95	44.19	90.00	1,962.90	-360.38	696.88	609.81	87.07	8.004	
9,700.00	7,480.00	9,827.94	7,480.00	45.13	45.46	90.00	2,062.88	-360.58	694.93	605.39	89.54	7.761	
9,800.00	7,480.00	9,927.92	7,480.00	46.34	46.74	90.00	2,162.86	-360.78	692.98	600.93	92.06	7.528	
9,900.00	7,480.00	10,027.90	7,480.00	47.57	48.04	90.00	2,262.84	-360.99	691.04	596.42	94.61	7.304	
10,000.00	7,480.00	10,127.89	7,480.00	48.82	49.36	90.00	2,362.82	-361.19	689.09	591.89	97.20	7.089	
10,100.00	7,480.00	10,227.87	7,480.00	50.08	50.69	90.00	2,462.80	-361.39	687.14	587.32	99.82	6.884	
10,200.00	7,480.00	10,327.85	7,480.00	51.36	52.04	90.00	2,562.78	-361.59	685.19	582.72	102.47	6.687	
10,300.00	7,480.00	10,427.83	7,480.00	52.66	53.40	90.00	2,662.76	-361.80	683.24	578.09	105.15	6.498	
10,400.00	7,480.00	10,527.81	7,480.00	53.97	54.77	90.00	2,762.74	-362.00	681.30	573.44	107.86	6.317	
10,500.00	7,480.00	10,627.79	7,480.00	55.29	56.16	90.00	2,862.72	-362.20	679.35	568.76	110.59	6.143	
10,600.00	7,480.00	10,727.77	7,480.00	56.63	57.55	90.00	2,962.71	-362.40	677.40	564.06	113.34	5.977	
10,700.00	7,480.00	10,827.75	7,480.00	57.98	58.95	90.00	3,062.69	-362.61	675.45	559.34	116.11	5.817	
10,800.00	7,480.00	10,927.73	7,480.00	59.34	60.36	90.00	3,162.67	-362.81	673.51	554.60	118.90	5.664	
10,900.00	7,480.00	11,027.72	7,480.00	60.71	61.78	90.00	3,262.65	-363.01	671.56	549.85	121.71	5.518	
11,000.00	7,480.00	11,127.70	7,480.00	62.09	63.21	90.00	3,362.63	-363.21	669.61	545.08	124.54	5.377	
11,100.00	7,480.00	11,227.68	7,480.00	63.47	64.65	90.00	3,462.61	-363.41	667.66	540.29	127.38	5.242	
11,200.00	7,480.00	11,327.66	7,480.00	64.87	66.09	90.00	3,562.59	-363.62	665.72	535.48	130.23	5.112	
11,300.00	7,480.00	11,427.64	7,480.00	66.27	67.54	90.00	3,662.57	-363.82	663.77	530.67	133.10	4.987	
11,400.00	7,480.00	11,527.62	7,480.00	67.68	68.99	90.00	3,762.55	-364.02	661.82	525.84	135.98	4.867	
11,500.00	7,480.00	11,627.60	7,480.00	69.10	70.45	90.00	3,862.53	-364.22	659.87	521.00	138.88	4.752	
11,600.00	7,480.00	11,727.58	7,480.00	70.53	71.92	90.00	3,962.51	-364.43	657.93	516.15	141.78	4.640	
11,700.00	7,480.00	11,827.56	7,480.00	71.96	73.39	90.00	4,062.49	-364.63	655.98	511.28	144.70	4.534	
11,800.00	7,480.00	11,927.54	7,480.00	73.39	74.86	90.00	4,162.48	-364.83	654.03	506.41	147.62	4.430	
11,900.00	7,480.00	12,027.53	7,480.00	74.83	76.34	90.00	4,262.46	-365.03	652.08	501.53	150.55	4.331	
12,000.00	7,480.00	12,127.51	7,480.00	76.28	77.83	90.00	4,362.44	-365.24	650.14	496.64	153.50	4.235	
12,100.00	7,480.00	12,227.49	7,480.00	77.73	79.31	90.00	4,462.42	-365.44	648.19	491.74	156.45	4.143	
12,200.00	7,480.00	12,327.47	7,480.00	79.18	80.80	90.00	4,562.40	-365.64	646.24	486.83	159.41	4.054	
12,300.00	7,480.00	12,427.45	7,480.00	80.64	82.30	90.00	4,662.38	-365.84	644.29	481.92	162.37	3.968	
12,400.00	7,480.00	12,527.43	7,480.00	82.11	83.80	90.00	4,762.36	-366.05	642.35	477.00	165.35	3.885	
12,500.00	7,480.00	12,627.41	7,480.00	83.57	85.30	90.00	4,862.34	-366.25	640.40	472.07	168.33	3.804	
12,600.00	7,480.00	12,727.39	7,480.00	85.05	86.80	90.00	4,962.32	-366.45	638.45	467.14	171.31	3.727	
12,700.00	7,480.00	12,827.37	7,480.00	86.52	88.31	90.00	5,062.30	-366.65	636.50	462.20	174.31	3.652	
12,800.00	7,480.00	12,927.35	7,480.00	88.00	89.82	90.00	5,162.28	-366.85	634.55	457.25	177.30	3.579	
12,900.00	7,480.00	13,027.34	7,480.00	89.48	91.33	90.00	5,262.26	-367.06	632.61	452.30	180.31	3.509	
13,000.00	7,480.00	13,127.32	7,480.00	90.96	92.84	90.00	5,362.25	-367.26	630.66	447.35	183.31	3.440	
13,100.00	7,480.00	13,227.30	7,480.00	92.45	94.36	90.00	5,462.23	-367.46	628.71	442.38	186.33	3.374	
13,200.00	7,480.00	13,327.28	7,480.00	93.94	95.88	90.00	5,562.21	-367.66	626.76	437.42	189.35	3.310	
13,300.00	7,480.00	13,427.26	7,480.00	95.43	97.40	90.00	5,662.19	-367.87	624.82	432.45	192.37	3.248	
13,339.08	7,480.00	13,466.34	7,480.00	96.01	97.99	90.00	5,701.26	-367.95	624.06	430.51	193.55	3.224	
13,394.88	7,480.00	13,522.13	7,480.00	96.85	98.84	90.00	5,757.06	-368.06	623.51	428.27	195.24	3.194	
13,400.00	7,480.00	13,527.25	7,480.00	96.93	98.92	90.00	5,762.18	-368.07	623.52	428.12	195.40	3.191	
13,500.00	7,480.00	13,627.23	7,480.00	98.46	100.44	90.00	5,862.15	-368.27	625.44	426.99	198.45	3.152	
13,600.00	7,480.00	13,727.07	7,480.00	100.01	101.97	90.00	5,962.00	-368.47	630.85	429.32	201.53	3.130	
13,700.00	7,480.00	13,826.67	7,480.00	101.59	103.49	90.00	6,061.60	-368.67	639.75	435.12	204.62	3.126 SF	
13,800.00	7,480.00	13,925.90	7,480.00	103.20	105.01	90.00	6,160.83	-368.88	652.11	444.38	207.73	3.139	

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 4E-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 4E-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 #3	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					
13,900.00	7,480.00	14,024.64	7,480.00	104.82	106.52	90.00	6,259.56	-369.08	667.93	457.08	210.85	3.168					
14,000.00	7,480.00	14,122.76	7,480.00	106.47	108.03	90.00	6,357.69	-369.27	687.18	473.21	213.98	3.211					
14,100.00	7,480.00	14,220.15	7,480.00	108.14	109.52	90.00	6,455.08	-369.47	709.85	492.75	217.11	3.270					
14,192.60	7,480.00	14,309.58	7,480.00	109.70	110.89	90.00	6,544.51	-369.65	733.86	513.86	220.00	3.336					
14,200.00	7,480.00	14,316.69	7,480.00	109.82	111.00	90.00	6,551.62	-369.67	735.90	515.66	220.23	3.341					
14,300.00	7,480.00	14,412.84	7,480.00	111.52	112.48	90.00	6,647.77	-369.86	763.38	540.02	223.36	3.418					
14,400.00	7,480.00	14,508.99	7,480.00	113.22	113.96	90.00	6,743.92	-370.06	790.87	564.37	226.50	3.492					
14,500.00	7,480.00	14,573.52	7,480.00	114.93	114.94	90.00	6,808.43	-369.06	820.10	591.67	228.42	3.590					
14,598.91	7,480.00	14,633.72	7,480.00	116.63	115.84	90.00	6,868.54	-365.66	852.80	622.94	229.86	3.710					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4I-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	90.17	-0.12	40.00	40.00					
100.00	100.00	100.00	100.00	0.14	0.14	90.17	-0.12	40.00	40.00	39.73	0.28	144.925		
200.00	200.00	200.00	200.00	0.50	0.50	90.17	-0.12	40.00	40.00	39.01	0.99	40.286		
300.00	300.00	300.00	300.00	0.85	0.85	90.17	-0.12	40.00	40.00	38.29	1.71	23.395 CC		
400.00	400.00	399.92	399.90	1.21	1.20	92.66	-1.86	40.05	40.09	37.68	2.41	16.633 ES		
500.00	500.00	499.59	499.43	1.57	1.54	99.97	-7.07	40.20	40.82	37.70	3.11	13.121		
600.00	600.00	598.78	598.24	1.93	1.89	111.19	-15.68	40.43	43.40	39.56	3.84	11.308		
700.00	699.98	697.74	696.50	2.28	2.26	-127.03	-27.36	40.76	50.24	45.67	4.58	10.982		
800.00	799.84	797.04	795.04	2.62	2.63	-121.10	-39.63	41.10	60.61	55.32	5.29	11.460		
900.00	899.45	896.24	893.48	2.97	3.02	-119.28	-51.89	41.44	73.05	67.04	6.01	12.164		
1,000.00	998.70	995.22	991.70	3.34	3.41	-119.94	-64.12	41.78	87.21	80.48	6.73	12.952		
1,102.07	1,099.50	1,095.89	1,091.60	3.73	3.80	-122.05	-76.56	42.12	103.54	96.05	7.49	13.817		
1,200.00	1,195.93	1,192.27	1,187.24	4.12	4.19	-124.43	-88.47	42.45	120.30	112.06	8.24	14.606		
1,300.00	1,294.40	1,290.69	1,284.90	4.52	4.58	-126.26	-100.63	42.79	137.56	128.56	9.00	15.282		
1,400.00	1,392.87	1,389.10	1,382.56	4.94	4.97	-127.68	-112.79	43.13	154.94	145.16	9.77	15.853		
1,500.00	1,491.34	1,487.52	1,480.22	5.36	5.37	-128.81	-124.95	43.46	172.38	161.83	10.55	16.338		
1,600.00	1,589.81	1,585.93	1,577.88	5.78	5.76	-129.74	-137.11	43.80	189.88	178.55	11.33	16.756		
1,700.00	1,688.27	1,684.35	1,675.54	6.21	6.16	-130.51	-149.27	44.14	207.42	195.31	12.12	17.119		
1,800.00	1,786.74	1,782.76	1,773.20	6.64	6.55	-131.16	-161.43	44.48	224.99	212.09	12.90	17.438		
1,900.00	1,885.21	1,881.18	1,870.86	7.07	6.95	-131.71	-173.60	44.81	242.59	228.90	13.69	17.718		
2,000.00	1,983.68	1,979.59	1,968.52	7.51	7.34	-132.19	-185.76	45.15	260.20	245.72	14.48	17.968		
2,100.00	2,082.15	2,078.01	2,066.18	7.95	7.74	-132.61	-197.92	45.49	277.83	262.56	15.27	18.191		
2,200.00	2,180.62	2,176.42	2,163.84	8.38	8.14	-132.98	-210.08	45.82	295.47	279.41	16.07	18.391		
2,300.00	2,279.08	2,274.84	2,261.50	8.82	8.54	-133.31	-222.24	46.16	313.12	296.26	16.86	18.572		
2,400.00	2,377.55	2,373.25	2,359.16	9.26	8.93	-133.60	-234.40	46.50	330.78	313.13	17.65	18.737		
2,500.00	2,476.02	2,471.66	2,456.82	9.70	9.33	-133.86	-246.56	46.84	348.45	330.00	18.45	18.887		
2,600.00	2,574.49	2,570.08	2,554.48	10.14	9.73	-134.10	-258.72	47.17	366.13	346.88	19.25	19.024		
2,700.00	2,672.96	2,668.49	2,652.14	10.59	10.13	-134.32	-270.88	47.51	383.81	363.77	20.04	19.150		
2,800.00	2,771.43	2,766.91	2,749.80	11.03	10.52	-134.51	-283.05	47.85	401.49	380.65	20.84	19.267		
2,900.00	2,869.89	2,865.32	2,847.46	11.47	10.92	-134.69	-295.21	48.18	419.18	397.55	21.64	19.374		
3,000.00	2,968.36	2,963.74	2,945.12	11.91	11.32	-134.86	-307.37	48.52	436.88	414.44	22.43	19.474		
3,100.00	3,066.83	3,062.15	3,042.78	12.36	11.72	-135.01	-319.53	48.86	454.57	431.34	23.23	19.567		
3,200.00	3,165.30	3,160.57	3,140.44	12.80	12.12	-135.15	-331.69	49.20	472.27	448.24	24.03	19.653		
3,300.00	3,263.77	3,258.98	3,238.10	13.25	12.51	-135.28	-343.85	49.53	489.97	465.14	24.83	19.734		
3,400.00	3,362.23	3,357.40	3,335.76	13.69	12.91	-135.40	-356.01	49.87	507.68	482.05	25.63	19.810		
3,500.00	3,460.70	3,455.81	3,433.42	14.14	13.31	-135.52	-368.17	50.21	525.38	498.96	26.43	19.881		
3,600.00	3,559.17	3,554.23	3,531.08	14.58	13.71	-135.62	-380.33	50.54	543.09	515.87	27.23	19.947		
3,700.00	3,657.64	3,652.64	3,628.74	15.03	14.11	-135.72	-392.50	50.88	560.80	532.78	28.03	20.010		
3,800.00	3,756.11	3,751.06	3,726.40	15.47	14.51	-135.82	-404.66	51.22	578.51	549.69	28.83	20.070		
3,900.00	3,854.58	3,849.47	3,824.06	15.92	14.90	-135.91	-416.82	51.56	596.23	566.60	29.63	20.126		
4,000.00	3,953.04	3,947.89	3,921.72	16.36	15.30	-135.99	-428.98	51.89	613.94	583.51	30.43	20.179		
4,100.00	4,051.51	4,046.30	4,019.38	16.81	15.70	-136.07	-441.14	52.23	631.65	600.43	31.23	20.229		
4,200.00	4,149.98	4,144.72	4,117.04	17.26	16.10	-136.14	-453.30	52.57	649.37	617.35	32.03	20.277		
4,300.00	4,248.45	4,243.13	4,214.70	17.70	16.50	-136.21	-465.46	52.90	667.09	634.26	32.83	20.322		
4,400.00	4,346.92	4,341.55	4,312.36	18.15	16.90	-136.28	-477.62	53.24	684.81	651.18	33.63	20.365		
4,500.00	4,445.38	4,439.96	4,410.02	18.60	17.29	-136.34	-489.79	53.58	702.53	668.10	34.43	20.406		
4,600.00	4,543.85	4,538.38	4,507.68	19.04	17.69	-136.40	-501.95	53.92	720.24	685.02	35.23	20.446		
4,700.00	4,642.32	4,636.79	4,605.34	19.49	18.09	-136.46	-514.11	54.25	737.97	701.94	36.03	20.483		
4,800.00	4,740.79	4,734.07	4,709.90	19.94	18.51	-136.57	-526.40	54.59	755.42	718.55	36.87	20.486		
4,900.00	4,839.26	4,832.48	4,819.93	20.38	18.93	-136.94	-535.46	54.85	771.50	733.77	37.73	20.449		
5,000.00	4,937.73	4,930.28	4,930.28	20.83	19.32	-137.58	-540.27	54.98	786.11	747.57	38.54	20.397		
5,100.00	5,036.19	5,068.86	5,036.19	21.28	19.65	-138.43	-541.12	55.00	799.45	760.18	39.28	20.354		

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 4E-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 4E-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 #3	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		
5,200.00	5,134.66	5,167.33	5,134.66	21.73	19.94	-139.24	-541.12	55.00	812.67	772.72	39.95	20.343		
5,300.00	5,233.13	5,265.80	5,233.13	22.17	20.23	-140.02	-541.12	55.00	826.04	785.41	40.62	20.336		
5,400.00	5,331.60	5,364.27	5,331.60	22.62	20.52	-140.78	-541.12	55.00	839.55	798.26	41.29	20.332		
5,500.00	5,430.07	5,462.74	5,430.07	23.07	20.81	-141.52	-541.12	55.00	853.22	811.25	41.96	20.332		
5,600.00	5,528.54	5,561.21	5,528.54	23.52	21.11	-142.23	-541.12	55.00	867.01	824.38	42.64	20.335		
5,700.00	5,627.00	5,659.67	5,627.00	23.96	21.40	-142.92	-541.12	55.00	880.94	837.63	43.31	20.340		
5,800.00	5,725.47	5,758.14	5,725.47	24.41	21.70	-143.59	-541.12	55.00	894.99	851.00	43.98	20.348		
5,900.00	5,823.94	5,856.61	5,823.94	24.86	22.00	-144.24	-541.12	55.00	909.15	864.50	44.66	20.358		
6,000.00	5,922.41	5,955.08	5,922.41	25.31	22.30	-144.87	-541.12	55.00	923.43	878.10	45.33	20.370		
6,100.00	6,020.88	6,053.55	6,020.88	25.75	22.60	-145.48	-541.12	55.00	937.82	891.81	46.01	20.384		
6,200.00	6,119.34	6,152.01	6,119.34	26.20	22.91	-146.07	-541.12	55.00	952.30	905.62	46.68	20.399		
6,300.00	6,217.81	6,250.48	6,217.81	26.65	23.21	-146.65	-541.12	55.00	966.89	919.53	47.36	20.416		
6,400.00	6,316.28	6,348.95	6,316.28	27.10	23.52	-147.20	-541.12	55.00	981.56	933.53	48.04	20.434		
6,500.00	6,414.75	6,447.42	6,414.75	27.54	23.83	-147.74	-541.12	55.00	996.33	947.62	48.71	20.453		
6,600.00	6,513.22	6,545.89	6,513.22	27.99	24.14	-148.27	-541.12	55.00	1,011.18	961.79	49.39	20.472		
6,700.00	6,611.69	6,644.36	6,611.69	28.44	24.45	-148.78	-541.12	55.00	1,026.11	976.04	50.07	20.493		
6,800.00	6,710.15	6,754.48	6,721.77	28.89	24.79	-149.42	-539.51	55.00	1,040.92	990.11	50.81	20.488		
6,818.10	6,727.97	6,777.74	6,744.95	28.97	24.86	-149.64	-537.58	55.01	1,043.40	992.46	50.95	20.481		
6,850.00	6,759.42	6,818.30	6,785.18	29.11	24.97	-164.89	-532.41	55.02	1,047.69	996.51	51.18	20.472		
6,900.00	6,808.74	6,880.92	6,846.53	29.32	25.14	170.14	-519.98	55.04	1,054.33	1,002.83	51.50	20.473		
6,950.00	6,857.89	6,942.34	6,905.43	29.51	25.29	149.81	-502.63	55.06	1,060.88	1,009.10	51.78	20.490		
7,000.00	6,906.63	7,002.52	6,961.49	29.69	25.43	135.67	-480.80	55.10	1,067.32	1,015.30	52.02	20.518		
7,050.00	6,954.71	7,061.48	7,014.45	29.85	25.55	125.96	-454.92	55.14	1,073.66	1,021.42	52.23	20.554		
7,100.00	7,001.91	7,119.20	7,064.06	30.00	25.67	118.99	-425.45	55.18	1,079.87	1,027.44	52.43	20.596		
7,150.00	7,048.00	7,175.72	7,110.19	30.13	25.78	113.71	-392.81	55.23	1,085.94	1,033.32	52.61	20.640		
7,200.00	7,092.75	7,231.07	7,152.73	30.25	25.88	109.53	-357.43	55.29	1,091.85	1,039.07	52.79	20.684		
7,250.00	7,135.95	7,285.27	7,191.62	30.36	25.99	106.09	-319.69	55.35	1,097.59	1,044.64	52.96	20.726		
7,300.00	7,177.37	7,338.38	7,226.86	30.45	26.10	103.17	-279.97	55.41	1,103.14	1,050.02	53.13	20.765		
7,350.00	7,216.83	7,390.44	7,258.44	30.53	26.21	100.65	-238.60	55.47	1,108.47	1,055.17	53.30	20.799		
7,400.00	7,254.13	7,441.50	7,286.43	30.60	26.32	98.43	-195.91	55.54	1,113.56	1,060.09	53.47	20.826		
7,450.00	7,289.09	7,491.60	7,310.86	30.66	26.45	96.45	-152.18	55.61	1,118.38	1,064.73	53.65	20.846		
7,500.00	7,321.53	7,540.80	7,331.82	30.70	26.58	94.68	-107.68	55.67	1,122.91	1,069.07	53.84	20.857		
7,550.00	7,351.30	7,589.14	7,349.39	30.74	26.72	93.09	-62.66	55.74	1,127.12	1,073.09	54.04	20.859		
7,600.00	7,378.26	7,636.67	7,363.67	30.77	26.86	91.65	-17.33	55.81	1,130.99	1,076.75	54.24	20.851		
7,650.00	7,402.27	7,683.44	7,374.76	30.80	27.02	90.36	28.09	55.89	1,134.50	1,080.04	54.46	20.832		
7,700.00	7,423.21	7,729.49	7,382.75	30.82	27.18	89.19	73.44	55.96	1,137.61	1,082.92	54.69	20.801		
7,750.00	7,440.99	7,774.86	7,387.76	30.83	27.36	88.15	118.52	56.03	1,140.31	1,085.38	54.93	20.759		
7,800.00	7,455.51	7,819.59	7,389.90	30.85	27.53	87.22	163.20	56.09	1,142.58	1,087.40	55.18	20.706		
7,850.00	7,466.72	7,867.21	7,390.00	30.88	27.74	86.40	210.82	56.17	1,144.34	1,088.87	55.47	20.628		
7,900.00	7,474.54	7,916.58	7,390.00	30.91	27.97	85.83	260.19	56.25	1,145.39	1,089.57	55.82	20.519		
7,950.00	7,478.95	7,966.38	7,390.00	30.95	28.23	85.53	309.98	56.32	1,145.66	1,089.44	56.23	20.376		
7,989.08	7,480.00	8,005.44	7,390.00	31.00	28.43	85.49	349.04	56.38	1,145.30	1,088.72	56.57	20.245		
8,000.00	7,480.00	8,016.35	7,390.00	31.02	28.50	85.49	359.96	56.40	1,145.12	1,088.44	56.68	20.203		
8,100.00	7,480.00	8,116.34	7,390.00	31.22	29.10	85.49	459.95	56.55	1,143.54	1,085.81	57.72	19.811		
8,200.00	7,480.00	8,216.33	7,390.00	31.54	29.77	85.48	559.93	56.71	1,141.95	1,083.04	58.92	19.383		
8,300.00	7,480.00	8,316.32	7,390.00	31.98	30.51	85.47	659.92	56.87	1,140.37	1,080.12	60.25	18.928		
8,400.00	7,480.00	8,416.30	7,390.00	32.54	31.32	85.47	759.91	57.02	1,138.78	1,077.07	61.71	18.453		
8,500.00	7,480.00	8,516.29	7,390.00	33.19	32.18	85.46	859.90	57.18	1,137.20	1,073.90	63.30	17.966		
8,600.00	7,480.00	8,616.28	7,390.00	33.93	33.09	85.45	959.88	57.33	1,135.61	1,070.62	65.00	17.472		
8,700.00	7,480.00	8,716.27	7,390.00	34.73	34.06	85.45	1,059.87	57.49	1,134.03	1,067.23	66.80	16.976		
8,800.00	7,480.00	8,816.25	7,390.00	35.58	35.06	85.44	1,159.86	57.64	1,132.44	1,063.74	68.70	16.484		
8,900.00	7,480.00	8,916.24	7,390.00	36.49	36.11	85.43	1,259.85	57.80	1,130.86	1,060.17	70.69	15.997		

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 4E-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 4E-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 #3	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
9,000.00	7,480.00	9,016.23	7,390.00	37.45	37.20	85.43	1,359.83	57.95	1,129.27	1,056.51	72.76	15.520	
9,100.00	7,480.00	9,116.22	7,390.00	38.45	38.32	85.42	1,459.82	58.11	1,127.69	1,052.78	74.91	15.055	
9,200.00	7,480.00	9,216.20	7,390.00	39.49	39.47	85.42	1,559.81	58.26	1,126.10	1,048.98	77.12	14.602	
9,300.00	7,480.00	9,316.19	7,390.00	40.56	40.66	85.41	1,659.79	58.42	1,124.52	1,045.12	79.40	14.163	
9,400.00	7,480.00	9,416.18	7,390.00	41.66	41.86	85.40	1,759.78	58.57	1,122.93	1,041.20	81.73	13.739	
9,500.00	7,480.00	9,516.16	7,390.00	42.79	43.10	85.40	1,859.77	58.73	1,121.35	1,037.23	84.12	13.330	
9,600.00	7,480.00	9,616.15	7,390.00	43.95	44.35	85.39	1,959.76	58.88	1,119.76	1,033.21	86.55	12.937	
9,700.00	7,480.00	9,716.14	7,390.00	45.13	45.63	85.38	2,059.74	59.04	1,118.18	1,029.14	89.03	12.559	
9,800.00	7,480.00	9,816.13	7,390.00	46.34	46.92	85.38	2,159.73	59.19	1,116.59	1,025.04	91.56	12.196	
9,900.00	7,480.00	9,916.11	7,390.00	47.57	48.23	85.37	2,259.72	59.35	1,115.01	1,020.89	94.11	11.847	
10,000.00	7,480.00	10,016.10	7,390.00	48.82	49.56	85.36	2,359.70	59.50	1,113.42	1,016.72	96.71	11.513	
10,100.00	7,480.00	10,116.09	7,390.00	50.08	50.90	85.36	2,459.69	59.66	1,111.84	1,012.51	99.33	11.193	
10,200.00	7,480.00	10,216.08	7,390.00	51.36	52.25	85.35	2,559.68	59.81	1,110.25	1,008.27	101.98	10.886	
10,300.00	7,480.00	10,316.06	7,390.00	52.66	53.62	85.34	2,659.67	59.97	1,108.67	1,004.00	104.66	10.593	
10,400.00	7,480.00	10,416.05	7,390.00	53.97	55.00	85.34	2,759.65	60.12	1,107.08	999.71	107.37	10.311	
10,500.00	7,480.00	10,516.04	7,390.00	55.29	56.39	85.33	2,859.64	60.28	1,105.50	995.40	110.10	10.041	
10,600.00	7,480.00	10,616.03	7,390.00	56.63	57.79	85.32	2,959.63	60.43	1,103.91	991.06	112.85	9.782	
10,700.00	7,480.00	10,716.01	7,390.00	57.98	59.20	85.32	3,059.62	60.59	1,102.33	986.70	115.62	9.534	
10,800.00	7,480.00	10,816.00	7,390.00	59.34	60.61	85.31	3,159.60	60.74	1,100.74	982.33	118.41	9.296	
10,900.00	7,480.00	10,915.99	7,390.00	60.71	62.04	85.30	3,259.59	60.90	1,099.16	977.94	121.22	9.068	
11,000.00	7,480.00	11,015.98	7,390.00	62.09	63.47	85.30	3,359.58	61.05	1,097.57	973.53	124.04	8.848	
11,100.00	7,480.00	11,115.96	7,390.00	63.47	64.91	85.29	3,459.56	61.21	1,095.99	969.11	126.88	8.638	
11,200.00	7,480.00	11,215.95	7,390.00	64.87	66.36	85.28	3,559.55	61.36	1,094.40	964.67	129.73	8.436	
11,300.00	7,480.00	11,315.94	7,390.00	66.27	67.81	85.28	3,659.54	61.52	1,092.82	960.22	132.60	8.242	
11,400.00	7,480.00	11,415.92	7,390.00	67.68	69.26	85.27	3,759.53	61.67	1,091.23	955.76	135.47	8.055	
11,500.00	7,480.00	11,515.91	7,390.00	69.10	70.73	85.26	3,859.51	61.83	1,089.65	951.29	138.36	7.875	
11,600.00	7,480.00	11,615.90	7,390.00	70.53	72.20	85.25	3,959.50	61.98	1,088.06	946.80	141.26	7.702	
11,700.00	7,480.00	11,715.89	7,390.00	71.96	73.67	85.25	4,059.49	62.14	1,086.48	942.31	144.17	7.536	
11,800.00	7,480.00	11,815.87	7,390.00	73.39	75.14	85.24	4,159.47	62.29	1,084.89	937.80	147.09	7.376	
11,900.00	7,480.00	11,938.60	7,390.00	74.83	76.97	85.23	4,282.19	61.03	1,082.10	931.58	150.52	7.189	
12,000.00	7,480.00	12,038.53	7,390.00	76.28	78.47	85.21	4,382.10	59.07	1,078.41	924.95	153.47	7.027	
12,100.00	7,480.00	12,138.46	7,390.00	77.73	79.98	85.19	4,482.02	57.12	1,074.73	918.30	156.42	6.871	
12,200.00	7,480.00	12,238.40	7,390.00	79.18	81.48	85.18	4,581.93	55.17	1,071.04	911.66	159.39	6.720	
12,300.00	7,480.00	12,338.33	7,390.00	80.64	82.99	85.16	4,681.84	53.22	1,067.36	905.00	162.36	6.574	
12,400.00	7,480.00	12,438.26	7,390.00	82.11	84.51	85.14	4,781.75	51.27	1,063.68	898.34	165.34	6.433	
12,500.00	7,480.00	12,538.19	7,390.00	83.57	86.03	85.13	4,881.67	49.32	1,059.99	891.67	168.32	6.297	
12,600.00	7,480.00	12,638.12	7,390.00	85.05	87.55	85.11	4,981.58	47.37	1,056.31	884.99	171.31	6.166	
12,700.00	7,480.00	12,738.05	7,390.00	86.52	89.07	85.09	5,081.49	45.42	1,052.63	878.31	174.31	6.039	
12,800.00	7,480.00	12,837.98	7,390.00	88.00	90.59	85.07	5,181.40	43.47	1,048.94	871.63	177.31	5.916	
12,900.00	7,480.00	12,937.92	7,390.00	89.48	92.12	85.06	5,281.32	41.52	1,045.26	864.94	180.32	5.797	
13,000.00	7,480.00	13,037.85	7,390.00	90.96	93.65	85.04	5,381.23	39.56	1,041.58	858.25	183.33	5.681	
13,100.00	7,480.00	13,137.78	7,390.00	92.45	95.18	85.02	5,481.14	37.61	1,037.89	851.55	186.35	5.570	
13,200.00	7,480.00	13,237.71	7,390.00	93.94	96.72	85.00	5,581.05	35.66	1,034.21	844.84	189.37	5.461	
13,300.00	7,480.00	13,337.64	7,390.00	95.43	98.25	84.99	5,680.97	33.71	1,030.53	838.14	192.39	5.356	
13,339.08	7,480.00	13,376.70	7,390.00	96.01	98.85	84.98	5,720.01	32.95	1,029.09	835.51	193.57	5.316	
13,400.00	7,480.00	13,437.59	7,390.00	96.93	99.79	84.97	5,780.90	31.76	1,027.49	832.06	195.42	5.258	
13,445.02	7,480.00	13,482.61	7,390.00	97.62	100.48	84.97	5,825.91	30.88	1,027.14	830.33	196.80	5.219	
13,500.00	7,480.00	13,537.59	7,390.00	98.46	101.33	84.97	5,880.87	29.81	1,027.66	829.17	198.49	5.177	
13,600.00	7,480.00	13,637.52	7,390.00	100.01	102.87	84.99	5,980.78	27.86	1,031.31	829.73	201.58	5.116	
13,700.00	7,480.00	13,737.26	7,390.00	101.59	104.41	85.01	6,080.50	25.91	1,038.43	833.73	204.70	5.073	
13,800.00	7,480.00	13,836.68	7,390.00	103.20	105.95	85.04	6,179.91	23.97	1,049.02	841.18	207.84	5.047	
13,900.00	7,480.00	13,935.68	7,390.00	104.82	107.48	85.08	6,278.89	22.03	1,063.06	852.06	211.00	5.038 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 4E-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 4E-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 #3	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						
14,000.00	7,480.00	14,034.13	7,390.00	106.47	109.01	85.13	6,377.32	20.11	1,080.53	866.36	214.17	5.045						
14,100.00	7,480.00	14,131.90	7,390.00	108.14	110.52	85.19	6,475.07	18.20	1,101.42	884.07	217.35	5.068						
14,192.60	7,480.00	14,221.74	7,390.00	109.70	111.92	85.25	6,564.89	16.45	1,123.79	903.49	220.30	5.101						
14,200.00	7,480.00	14,228.89	7,390.00	109.82	112.03	85.25	6,572.04	16.31	1,125.69	905.16	220.53	5.104						
14,300.00	7,480.00	14,325.50	7,390.00	111.52	113.53	85.36	6,668.64	14.42	1,151.41	927.69	223.72	5.147						
14,400.00	7,480.00	14,422.11	7,390.00	113.22	115.03	85.46	6,765.23	12.54	1,177.13	950.22	226.92	5.188						
14,500.00	7,480.00	14,518.73	7,390.00	114.93	116.53	85.56	6,861.83	10.65	1,202.86	972.74	230.12	5.227						
14,598.91	7,480.00	14,595.94	7,390.00	116.63	117.73	85.63	6,939.02	9.14	1,228.44	995.60	232.84	5.276						

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4J-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.08	-0.07	50.07	50.07					
100.00	100.00	100.00	100.00	0.14	0.14	90.08	-0.07	50.07	50.07	49.80	0.28	181.407		
200.00	200.00	200.00	200.00	0.50	0.50	90.08	-0.07	50.07	50.07	49.08	0.99	50.427		
300.00	300.00	300.00	300.00	0.85	0.85	90.08	-0.07	50.07	50.07	48.36	1.71	29.284		
303.93	303.93	303.93	303.93	0.87	0.87	90.08	-0.07	50.07	50.07	48.33	1.74	28.809 CC		
400.00	400.00	399.65	399.65	1.21	1.20	90.54	-0.47	50.24	50.24	47.83	2.42	20.776 ES		
500.00	500.00	498.84	498.78	1.57	1.54	94.03	-3.63	51.59	51.73	48.61	3.12	16.592		
600.00	600.00	597.68	597.37	1.93	1.88	100.36	-9.92	54.26	55.22	51.38	3.84	14.383		
700.00	699.98	695.89	695.05	2.28	2.24	-141.99	-19.27	58.23	62.90	58.33	4.57	13.758		
800.00	799.84	794.12	792.41	2.62	2.61	-136.66	-31.27	63.33	75.94	70.65	5.29	14.351		
900.00	899.45	892.76	890.12	2.97	2.99	-134.21	-43.66	68.60	92.09	86.09	6.00	15.351		
1,000.00	998.70	991.00	987.45	3.34	3.38	-133.73	-56.01	73.85	110.69	103.97	6.71	16.486		
1,102.07	1,099.50	1,090.77	1,086.28	3.73	3.78	-134.42	-68.54	79.18	132.13	124.67	7.46	17.719		
1,200.00	1,195.93	1,186.20	1,180.81	4.12	4.16	-135.58	-80.54	84.28	153.95	145.77	8.18	18.822		
1,300.00	1,294.40	1,283.64	1,277.35	4.52	4.56	-136.47	-92.78	89.49	176.27	167.35	8.92	19.756		
1,400.00	1,392.87	1,381.09	1,373.88	4.94	4.95	-137.17	-105.03	94.69	198.62	188.95	9.67	20.533		
1,500.00	1,491.34	1,478.53	1,470.41	5.36	5.35	-137.72	-117.27	99.90	221.00	210.57	10.43	21.188		
1,600.00	1,589.81	1,575.97	1,566.94	5.78	5.75	-138.17	-129.52	105.11	243.39	232.20	11.19	21.747		
1,700.00	1,688.27	1,673.42	1,663.47	6.21	6.15	-138.54	-141.76	110.31	265.80	253.84	11.96	22.229		
1,800.00	1,786.74	1,770.86	1,760.00	6.64	6.54	-138.86	-154.01	115.52	288.21	275.48	12.73	22.648		
1,900.00	1,885.21	1,868.31	1,856.54	7.07	6.94	-139.13	-166.25	120.73	310.63	297.13	13.50	23.016		
2,000.00	1,983.68	1,965.75	1,953.07	7.51	7.35	-139.36	-178.50	125.93	333.06	318.79	14.27	23.341		
2,100.00	2,082.15	2,063.20	2,049.60	7.95	7.75	-139.57	-190.74	131.14	355.49	340.44	15.04	23.630		
2,200.00	2,180.62	2,160.64	2,146.13	8.38	8.15	-139.75	-202.99	136.34	377.92	362.10	15.82	23.890		
2,300.00	2,279.08	2,258.09	2,242.66	8.82	8.55	-139.91	-215.23	141.55	400.36	383.76	16.60	24.123		
2,400.00	2,377.55	2,355.53	2,339.20	9.26	8.95	-140.05	-227.48	146.76	422.80	405.43	17.38	24.334		
2,500.00	2,476.02	2,452.98	2,435.73	9.70	9.35	-140.18	-239.72	151.96	445.24	427.09	18.15	24.526		
2,600.00	2,574.49	2,550.42	2,532.26	10.14	9.75	-140.30	-251.97	157.17	467.69	448.75	18.93	24.701		
2,700.00	2,672.96	2,647.86	2,628.79	10.59	10.16	-140.40	-264.21	162.38	490.13	470.42	19.71	24.861		
2,800.00	2,771.43	2,745.31	2,725.32	11.03	10.56	-140.50	-276.46	167.58	512.58	492.09	20.50	25.009		
2,900.00	2,869.89	2,842.75	2,821.85	11.47	10.96	-140.59	-288.70	172.79	535.03	513.75	21.28	25.145		
3,000.00	2,968.36	2,940.20	2,918.39	11.91	11.37	-140.67	-300.95	177.99	557.48	535.42	22.06	25.270		
3,100.00	3,066.83	3,037.64	3,014.92	12.36	11.77	-140.74	-313.19	183.20	579.93	557.09	22.84	25.387		
3,200.00	3,165.30	3,135.09	3,111.45	12.80	12.17	-140.81	-325.44	188.41	602.38	578.76	23.63	25.496		
3,300.00	3,263.77	3,232.53	3,207.98	13.25	12.57	-140.88	-337.68	193.61	624.84	600.43	24.41	25.597		
3,400.00	3,362.23	3,329.98	3,304.51	13.69	12.98	-140.94	-349.93	198.82	647.29	622.10	25.19	25.692		
3,500.00	3,460.70	3,427.42	3,401.04	14.14	13.38	-140.99	-362.17	204.02	669.74	643.77	25.98	25.781		
3,600.00	3,559.17	3,524.86	3,497.58	14.58	13.78	-141.04	-374.42	209.23	692.20	665.44	26.76	25.864		
3,700.00	3,657.64	3,622.31	3,594.11	15.03	14.19	-141.09	-386.66	214.44	714.65	687.11	27.55	25.942		
3,800.00	3,756.11	3,719.75	3,690.64	15.47	14.59	-141.14	-398.91	219.64	737.11	708.78	28.33	26.016		
3,900.00	3,854.58	3,817.20	3,787.17	15.92	14.99	-141.18	-411.15	224.85	759.57	730.45	29.12	26.086		
4,000.00	3,953.04	3,914.64	3,883.70	16.36	15.40	-141.22	-423.40	230.06	782.02	752.12	29.90	26.152		
4,100.00	4,051.51	4,012.09	3,980.23	16.81	15.80	-141.26	-435.64	235.26	804.48	773.79	30.69	26.214		
4,200.00	4,149.98	4,109.53	4,076.77	17.26	16.20	-141.30	-447.89	240.47	826.94	795.46	31.47	26.273		
4,300.00	4,248.45	4,206.98	4,173.30	17.70	16.61	-141.33	-460.13	245.67	849.39	817.13	32.26	26.329		
4,400.00	4,346.92	4,304.42	4,269.83	18.15	17.01	-141.37	-472.38	250.88	871.85	838.80	33.05	26.382		
4,500.00	4,445.38	4,401.86	4,366.36	18.60	17.42	-141.40	-484.62	256.09	894.31	860.48	33.83	26.433		
4,600.00	4,543.85	4,499.31	4,462.89	19.04	17.82	-141.43	-496.87	261.29	916.77	882.15	34.62	26.481		
4,700.00	4,642.32	4,596.75	4,559.42	19.49	18.22	-141.45	-509.11	266.50	939.23	903.82	35.41	26.527		
4,800.00	4,740.79	4,707.37	4,669.08	19.94	18.68	-141.51	-522.43	272.16	961.36	925.07	36.29	26.490		
4,900.00	4,839.26	4,832.72	4,793.88	20.38	19.16	-141.79	-533.24	276.76	981.11	943.86	37.24	26.344		
5,000.00	4,937.73	4,958.95	4,919.94	20.83	19.60	-142.30	-539.04	279.22	998.11	959.97	38.14	26.169		

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4J-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.00	5,036.19	5,075.22	5,036.19	21.28	19.97	-142.96	-540.07	279.66	1,012.61	973.68	38.93	26.014	
5,200.00	5,134.66	5,173.68	5,134.66	21.73	20.25	-143.55	-540.07	279.66	1,026.66	987.05	39.61	25.919	
5,300.00	5,233.13	5,272.15	5,233.13	22.17	20.54	-144.11	-540.07	279.66	1,040.81	1,000.52	40.29	25.830	
5,400.00	5,331.60	5,370.62	5,331.60	22.62	20.83	-144.67	-540.07	279.66	1,055.06	1,014.08	40.98	25.746	
5,500.00	5,430.07	5,469.09	5,430.07	23.07	21.12	-145.20	-540.07	279.66	1,069.40	1,027.74	41.66	25.667	
5,600.00	5,528.54	5,567.56	5,528.54	23.52	21.41	-145.73	-540.07	279.66	1,083.84	1,041.49	42.35	25.592	
5,700.00	5,627.00	5,666.02	5,627.00	23.96	21.71	-146.24	-540.07	279.66	1,098.36	1,055.32	43.04	25.522	
5,800.00	5,725.47	5,764.49	5,725.47	24.41	22.00	-146.73	-540.07	279.66	1,112.96	1,069.24	43.72	25.455	
5,900.00	5,823.94	5,862.96	5,823.94	24.86	22.30	-147.22	-540.07	279.66	1,127.65	1,083.24	44.41	25.392	
6,000.00	5,922.41	5,961.43	5,922.41	25.31	22.60	-147.69	-540.07	279.66	1,142.41	1,097.31	45.10	25.332	
6,100.00	6,020.88	6,059.90	6,020.88	25.75	22.90	-148.15	-540.07	279.66	1,157.25	1,111.46	45.78	25.276	
6,200.00	6,119.34	6,158.37	6,119.34	26.20	23.20	-148.60	-540.07	279.66	1,172.16	1,125.68	46.47	25.222	
6,300.00	6,217.81	6,256.83	6,217.81	26.65	23.51	-149.03	-540.07	279.66	1,187.13	1,139.97	47.16	25.172	
6,400.00	6,316.28	6,355.30	6,316.28	27.10	23.81	-149.46	-540.07	279.66	1,202.18	1,154.33	47.85	25.123	
6,500.00	6,414.75	6,453.77	6,414.75	27.54	24.12	-149.87	-540.07	279.66	1,217.28	1,168.74	48.54	25.077	
6,600.00	6,513.22	6,552.24	6,513.22	27.99	24.43	-150.28	-540.07	279.66	1,232.45	1,183.22	49.23	25.034	
6,700.00	6,611.69	6,650.71	6,611.69	28.44	24.73	-150.67	-540.07	279.66	1,247.68	1,197.76	49.92	24.993	
6,800.00	6,710.15	6,749.18	6,710.15	28.89	25.04	-151.06	-540.07	279.66	1,262.97	1,212.35	50.61	24.953	
6,818.10	6,727.97	6,767.00	6,727.97	28.97	25.10	-151.13	-540.07	279.66	1,265.74	1,215.00	50.74	24.946	
6,850.00	6,759.42	6,798.44	6,759.42	29.11	25.20	-166.10	-540.07	279.66	1,270.72	1,219.76	50.96	24.937	
6,900.00	6,808.74	6,862.78	6,823.69	29.32	25.40	169.40	-537.57	279.65	1,278.61	1,227.26	51.35	24.899	
6,950.00	6,857.89	6,928.40	6,888.73	29.51	25.58	149.52	-529.09	279.60	1,286.25	1,234.55	51.71	24.876	
7,000.00	6,906.63	6,993.67	6,952.40	29.69	25.75	135.82	-514.80	279.53	1,293.62	1,241.60	52.02	24.868	
7,050.00	6,954.71	7,058.48	7,014.06	29.85	25.90	126.52	-494.93	279.42	1,300.69	1,248.39	52.30	24.872	
7,100.00	7,001.91	7,122.69	7,073.14	30.00	26.04	119.94	-469.83	279.28	1,307.43	1,254.89	52.54	24.884	
7,150.00	7,048.00	7,186.18	7,129.12	30.13	26.17	115.03	-439.90	279.12	1,313.82	1,261.06	52.76	24.902	
7,200.00	7,092.75	7,248.88	7,181.57	30.25	26.29	111.18	-405.61	278.93	1,319.86	1,266.90	52.96	24.920	
7,250.00	7,135.95	7,310.68	7,230.15	30.36	26.40	108.05	-367.44	278.72	1,325.53	1,272.37	53.16	24.936	
7,300.00	7,177.37	7,371.52	7,274.60	30.45	26.50	105.43	-325.90	278.50	1,330.81	1,277.46	53.35	24.945	
7,350.00	7,216.83	7,431.37	7,314.71	30.53	26.61	103.17	-281.52	278.26	1,335.69	1,282.14	53.54	24.945	
7,400.00	7,254.13	7,490.17	7,350.39	30.60	26.72	101.20	-234.80	278.00	1,340.17	1,286.42	53.75	24.934	
7,450.00	7,289.09	7,547.91	7,381.58	30.66	26.83	99.45	-186.23	277.74	1,344.23	1,290.27	53.97	24.909	
7,500.00	7,321.53	7,604.58	7,408.28	30.70	26.96	97.89	-136.26	277.47	1,347.88	1,293.68	54.20	24.869	
7,550.00	7,351.30	7,660.18	7,430.57	30.74	27.09	96.49	-85.34	277.19	1,351.10	1,296.65	54.45	24.813	
7,600.00	7,378.26	7,714.73	7,448.53	30.77	27.24	95.22	-33.85	276.91	1,353.89	1,299.17	54.72	24.742	
7,650.00	7,402.27	7,768.24	7,462.29	30.80	27.40	94.08	17.85	276.63	1,356.25	1,301.24	55.01	24.655	
7,700.00	7,423.21	7,820.73	7,472.01	30.82	27.57	93.05	69.42	276.35	1,358.16	1,302.84	55.32	24.553	
7,750.00	7,440.99	7,872.25	7,477.84	30.83	27.75	92.13	120.59	276.07	1,359.62	1,303.98	55.64	24.437	
7,800.00	7,455.51	7,922.81	7,479.98	30.85	27.94	91.31	171.10	275.80	1,360.64	1,304.66	55.97	24.308	
7,850.00	7,466.72	7,971.70	7,480.00	30.88	28.14	90.65	219.98	275.53	1,361.21	1,304.88	56.33	24.164	
7,900.00	7,474.54	8,021.07	7,480.00	30.91	28.37	90.21	269.36	275.26	1,361.32	1,304.59	56.73	23.998	
7,950.00	7,478.95	8,070.86	7,480.00	30.95	28.62	90.00	319.15	274.99	1,360.89	1,303.73	57.16	23.809	
7,989.08	7,480.00	8,109.92	7,480.00	31.00	28.82	90.00	358.21	274.78	1,360.17	1,302.65	57.52	23.648	
8,000.00	7,480.00	8,120.83	7,480.00	31.02	28.88	90.00	369.12	274.72	1,359.92	1,302.30	57.63	23.599	
8,100.00	7,480.00	8,220.81	7,480.00	31.22	29.48	90.00	469.09	274.18	1,357.63	1,298.95	58.68	23.135	
8,200.00	7,480.00	8,320.78	7,480.00	31.54	30.15	90.00	569.07	273.64	1,355.34	1,295.46	59.89	22.632	
8,300.00	7,480.00	8,420.76	7,480.00	31.98	30.88	90.00	669.04	273.09	1,353.06	1,291.83	61.23	22.098	
8,400.00	7,480.00	8,520.73	7,480.00	32.54	31.68	90.00	769.01	272.55	1,350.77	1,288.06	62.70	21.542	
8,500.00	7,480.00	8,620.70	7,480.00	33.19	32.54	90.00	868.98	272.01	1,348.48	1,284.18	64.30	20.973	
8,600.00	7,480.00	8,720.68	7,480.00	33.93	33.45	90.00	968.95	271.46	1,346.19	1,280.19	66.00	20.396	
8,700.00	7,480.00	8,820.65	7,480.00	34.73	34.41	90.00	1,068.93	270.92	1,343.90	1,276.09	67.81	19.817	
8,800.00	7,480.00	8,920.62	7,480.00	35.58	35.41	90.00	1,168.90	270.38	1,341.61	1,271.89	69.72	19.243	

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 4E-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 4E-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4J-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,900.00	7,480.00	9,020.60	7,480.00	36.49	36.46	90.00	1,268.87	269.83	1,339.32	1,267.61	71.72	18.675	
9,000.00	7,480.00	9,120.57	7,480.00	37.45	37.55	90.00	1,368.84	269.29	1,337.04	1,263.24	73.79	18.119	
9,100.00	7,480.00	9,220.55	7,480.00	38.45	38.66	90.00	1,468.82	268.75	1,334.75	1,258.81	75.94	17.576	
9,200.00	7,480.00	9,320.52	7,480.00	39.49	39.82	90.00	1,568.79	268.20	1,332.46	1,254.30	78.16	17.048	
9,300.00	7,480.00	9,420.49	7,480.00	40.56	41.00	90.00	1,668.76	267.66	1,330.17	1,249.73	80.44	16.536	
9,400.00	7,480.00	9,520.47	7,480.00	41.66	42.20	90.00	1,768.73	267.12	1,327.88	1,245.10	82.78	16.041	
9,500.00	7,480.00	9,620.44	7,480.00	42.79	43.43	90.00	1,868.71	266.57	1,325.59	1,240.42	85.17	15.563	
9,600.00	7,480.00	9,720.42	7,480.00	43.95	44.69	90.00	1,968.68	266.03	1,323.30	1,235.69	87.62	15.104	
9,700.00	7,480.00	9,820.39	7,480.00	45.13	45.96	90.00	2,068.65	265.49	1,321.02	1,230.92	90.10	14.662	
9,800.00	7,480.00	9,920.36	7,480.00	46.34	47.25	90.00	2,168.62	264.94	1,318.73	1,226.10	92.63	14.237	
9,900.00	7,480.00	10,020.34	7,480.00	47.57	48.56	90.00	2,268.59	264.40	1,316.44	1,221.25	95.19	13.830	
10,000.00	7,480.00	10,120.31	7,480.00	48.82	49.89	90.00	2,368.57	263.86	1,314.15	1,216.36	97.79	13.439	
10,100.00	7,480.00	10,220.28	7,480.00	50.08	51.23	90.00	2,468.54	263.31	1,311.86	1,211.44	100.42	13.064	
10,200.00	7,480.00	10,320.26	7,480.00	51.36	52.59	90.00	2,568.51	262.77	1,309.57	1,206.49	103.08	12.705	
10,300.00	7,480.00	10,420.23	7,480.00	52.66	53.95	90.00	2,668.48	262.23	1,307.28	1,201.52	105.77	12.360	
10,400.00	7,480.00	10,520.21	7,480.00	53.97	55.33	90.00	2,768.46	261.68	1,305.00	1,196.52	108.48	12.030	
10,500.00	7,480.00	10,620.18	7,480.00	55.29	56.72	90.00	2,868.43	261.14	1,302.71	1,191.49	111.22	11.713	
10,600.00	7,480.00	10,720.15	7,480.00	56.63	58.12	90.00	2,968.40	260.60	1,300.42	1,186.44	113.97	11.410	
10,700.00	7,480.00	10,820.13	7,480.00	57.98	59.53	90.00	3,068.37	260.05	1,298.13	1,181.38	116.75	11.119	
10,800.00	7,480.00	10,920.10	7,480.00	59.34	60.95	90.00	3,168.35	259.51	1,295.84	1,176.29	119.55	10.839	
10,900.00	7,480.00	11,020.07	7,480.00	60.71	62.38	90.00	3,268.32	258.97	1,293.55	1,171.19	122.36	10.571	
11,000.00	7,480.00	11,120.05	7,480.00	62.09	63.81	90.00	3,368.29	258.42	1,291.26	1,166.07	125.20	10.314	
11,100.00	7,480.00	11,220.02	7,480.00	63.47	65.25	90.00	3,468.26	257.88	1,288.98	1,160.93	128.04	10.067	
11,200.00	7,480.00	11,320.00	7,480.00	64.87	66.70	90.00	3,568.24	257.34	1,286.69	1,155.79	130.90	9.829	
11,300.00	7,480.00	11,419.97	7,480.00	66.27	68.15	90.00	3,668.21	256.79	1,284.40	1,150.62	133.78	9.601	
11,400.00	7,480.00	11,519.94	7,480.00	67.68	69.61	90.00	3,768.18	256.25	1,282.11	1,145.45	136.66	9.382	
11,500.00	7,480.00	11,619.92	7,480.00	69.10	71.08	90.00	3,868.15	255.71	1,279.82	1,140.26	139.56	9.170	
11,600.00	7,480.00	11,719.89	7,480.00	70.53	72.55	90.00	3,968.12	255.16	1,277.53	1,135.06	142.47	8.967	
11,700.00	7,480.00	11,819.87	7,480.00	71.96	74.02	90.00	4,068.10	254.62	1,275.24	1,129.86	145.39	8.771	
11,800.00	7,480.00	11,919.84	7,480.00	73.39	75.50	90.00	4,168.07	254.08	1,272.96	1,124.64	148.32	8.583	
11,900.00	7,480.00	12,019.81	7,480.00	74.83	76.99	90.00	4,268.04	253.53	1,270.67	1,119.41	151.26	8.401	
12,000.00	7,480.00	12,119.79	7,480.00	76.28	78.47	90.00	4,368.01	252.99	1,268.38	1,114.18	154.20	8.225	
12,100.00	7,480.00	12,219.76	7,480.00	77.73	79.97	90.00	4,467.99	252.45	1,266.09	1,108.93	157.16	8.056	
12,200.00	7,480.00	12,319.73	7,480.00	79.18	81.46	90.00	4,567.96	251.90	1,263.80	1,103.68	160.12	7.893	
12,300.00	7,480.00	12,419.71	7,480.00	80.64	82.96	90.00	4,667.93	251.36	1,261.51	1,098.42	163.09	7.735	
12,400.00	7,480.00	12,519.68	7,480.00	82.11	84.46	90.00	4,767.90	250.82	1,259.23	1,093.16	166.07	7.583	
12,500.00	7,480.00	12,619.66	7,480.00	83.57	85.97	90.00	4,867.88	250.27	1,256.94	1,087.88	169.05	7.435	
12,600.00	7,480.00	12,719.63	7,480.00	85.05	87.47	90.00	4,967.85	249.73	1,254.65	1,082.60	172.04	7.293	
12,700.00	7,480.00	12,819.60	7,480.00	86.52	88.98	90.00	5,067.82	249.19	1,252.36	1,077.32	175.04	7.155	
12,800.00	7,480.00	12,919.58	7,480.00	88.00	90.50	90.00	5,167.79	248.64	1,250.07	1,072.03	178.04	7.021	
12,900.00	7,480.00	13,019.55	7,480.00	89.48	92.01	90.00	5,267.76	248.10	1,247.78	1,066.74	181.05	6.892	
13,000.00	7,480.00	13,119.52	7,480.00	90.96	93.53	90.00	5,367.74	247.56	1,245.49	1,061.44	184.06	6.767	
13,100.00	7,480.00	13,219.50	7,480.00	92.45	95.05	90.00	5,467.71	247.01	1,243.21	1,056.13	187.07	6.645	
13,200.00	7,480.00	13,319.47	7,480.00	93.94	96.57	90.00	5,567.68	246.47	1,240.92	1,050.82	190.10	6.528	
13,300.00	7,480.00	13,419.45	7,480.00	95.43	98.10	90.00	5,667.65	245.93	1,238.63	1,045.51	193.12	6.414	
13,339.08	7,480.00	13,458.52	7,480.00	96.01	98.69	90.00	5,706.73	245.72	1,237.73	1,043.43	194.30	6.370	
13,400.00	7,480.00	13,519.43	7,480.00	96.93	99.62	90.00	5,767.64	245.38	1,236.99	1,040.83	196.16	6.306	
13,404.65	7,480.00	13,524.08	7,480.00	97.00	99.70	90.00	5,772.29	245.36	1,236.98	1,040.69	196.30	6.302	
13,500.00	7,480.00	13,619.41	7,480.00	98.46	101.15	90.00	5,867.62	244.84	1,238.57	1,039.36	199.21	6.217	
13,600.00	7,480.00	13,719.28	7,480.00	100.01	102.68	90.00	5,967.48	244.30	1,243.64	1,041.35	202.29	6.148	
13,700.00	7,480.00	13,818.91	7,480.00	101.59	104.21	90.00	6,067.11	243.76	1,252.19	1,046.80	205.39	6.097	
13,800.00	7,480.00	13,918.18	7,480.00	103.20	105.73	90.00	6,166.38	243.22	1,264.22	1,055.71	208.51	6.063	

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 4E-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 4E-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 #3	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					
13,900.00	7,480.00	14,016.97	7,480.00	104.82	107.25	90.00	6,265.16	242.68	1,279.70	1,068.07	211.63	6.047					
14,000.00	7,480.00	14,115.15	7,480.00	106.47	108.75	90.00	6,363.35	242.15	1,298.62	1,083.86	214.76	6.047 SF					
14,100.00	7,480.00	14,212.62	7,480.00	108.14	110.25	90.00	6,460.82	241.62	1,320.96	1,103.06	217.90	6.062					
14,192.60	7,480.00	14,302.14	7,480.00	109.70	111.63	90.00	6,550.33	241.13	1,344.66	1,123.87	220.80	6.090					
14,200.00	7,480.00	14,309.25	7,480.00	109.82	111.74	90.00	6,557.45	241.09	1,346.67	1,125.64	221.03	6.093					
14,300.00	7,480.00	14,405.50	7,480.00	111.52	113.22	90.00	6,653.69	240.57	1,373.83	1,149.67	224.17	6.129					
14,400.00	7,480.00	14,501.74	7,480.00	113.22	114.71	90.00	6,749.93	240.05	1,400.99	1,173.68	227.31	6.163					
14,500.00	7,480.00	14,597.98	7,480.00	114.93	116.19	90.00	6,846.17	239.52	1,428.15	1,197.69	230.46	6.197					
14,598.91	7,480.00	14,691.86	7,480.00	116.63	117.64	90.00	6,940.05	239.01	1,455.01	1,221.46	233.56	6.230					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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	90.03	-0.03	60.14	60.14					
100.00	100.00	100.00	100.00	0.14	0.14	90.03	-0.03	60.14	60.14	59.87	0.28	217.890		
200.00	200.00	200.00	200.00	0.50	0.50	90.03	-0.03	60.14	60.14	59.15	0.99	60.569		
300.00	300.00	300.00	300.00	0.85	0.85	90.03	-0.03	60.14	60.14	58.43	1.71	35.173		
400.00	400.00	400.00	400.00	1.21	1.21	90.03	-0.03	60.14	60.14	57.72	2.43	24.782		
500.00	500.00	500.00	500.00	1.57	1.57	90.03	-0.03	60.14	60.14	57.00	3.14	19.131		
600.00	600.00	600.00	600.00	1.93	1.93	90.03	-0.03	60.14	60.14	56.28	3.86	15.578	CC, ES	
700.00	699.98	698.93	698.92	2.28	2.27	-158.54	-1.53	60.96	62.61	58.06	4.55	13.762		
800.00	799.84	797.46	797.31	2.62	2.60	-156.39	-6.00	63.40	70.07	64.84	5.23	13.400		
900.00	899.45	895.19	894.67	2.97	2.94	-153.67	-13.37	67.43	82.63	76.71	5.92	13.948		
1,000.00	998.70	991.82	990.60	3.34	3.28	-150.98	-23.51	72.97	100.34	93.71	6.63	15.135		
1,102.07	1,099.50	1,091.40	1,089.27	3.73	3.65	-149.23	-35.30	79.41	122.54	115.19	7.35	16.667		
1,200.00	1,195.93	1,186.62	1,183.62	4.12	4.01	-148.58	-46.57	85.57	145.35	137.30	8.05	18.051		
1,300.00	1,294.40	1,283.86	1,279.97	4.52	4.38	-148.10	-58.08	91.85	168.65	159.88	8.77	19.222		
1,400.00	1,392.87	1,381.10	1,376.32	4.94	4.76	-147.73	-69.59	98.14	191.96	182.46	9.50	20.197		
1,500.00	1,491.34	1,478.34	1,472.67	5.36	5.14	-147.45	-81.10	104.43	215.28	205.03	10.24	21.017		
1,600.00	1,589.81	1,575.58	1,569.02	5.78	5.53	-147.22	-92.61	110.72	238.60	227.61	10.99	21.716		
1,700.00	1,688.27	1,672.82	1,665.37	6.21	5.91	-147.03	-104.12	117.01	261.92	250.19	11.74	22.318		
1,800.00	1,786.74	1,770.06	1,761.72	6.64	6.30	-146.87	-115.63	123.30	285.25	272.76	12.49	22.840		
1,900.00	1,885.21	1,867.29	1,858.07	7.07	6.69	-146.73	-127.14	129.58	308.58	295.33	13.24	23.298		
2,000.00	1,983.68	1,964.53	1,954.42	7.51	7.09	-146.62	-138.65	135.87	331.90	317.90	14.00	23.701		
2,100.00	2,082.15	2,061.77	2,050.77	7.95	7.48	-146.52	-150.16	142.16	355.23	340.47	14.77	24.059		
2,200.00	2,180.62	2,159.01	2,147.12	8.38	7.87	-146.43	-161.67	148.45	378.57	363.04	15.53	24.379		
2,300.00	2,279.08	2,256.25	2,243.47	8.82	8.27	-146.35	-173.18	154.74	401.90	385.60	16.29	24.666		
2,400.00	2,377.55	2,353.49	2,339.82	9.26	8.66	-146.28	-184.69	161.03	425.23	408.17	17.06	24.926		
2,500.00	2,476.02	2,450.73	2,436.17	9.70	9.06	-146.22	-196.20	167.32	448.56	430.74	17.83	25.161		
2,600.00	2,574.49	2,547.96	2,532.52	10.14	9.46	-146.17	-207.71	173.60	471.90	453.30	18.60	25.376		
2,700.00	2,672.96	2,645.20	2,628.87	10.59	9.85	-146.11	-219.22	179.89	495.23	475.86	19.37	25.572		
2,800.00	2,771.43	2,742.44	2,725.22	11.03	10.25	-146.07	-230.73	186.18	518.56	498.43	20.14	25.752		
2,900.00	2,869.89	2,839.68	2,821.57	11.47	10.65	-146.03	-242.24	192.47	541.90	520.99	20.91	25.917		
3,000.00	2,968.36	2,936.92	2,917.92	11.91	11.05	-145.99	-253.75	198.76	565.23	543.55	21.68	26.071		
3,100.00	3,066.83	3,034.16	3,014.27	12.36	11.44	-145.95	-265.27	205.05	588.57	566.11	22.45	26.212		
3,200.00	3,165.30	3,131.40	3,110.62	12.80	11.84	-145.92	-276.78	211.33	611.90	588.68	23.23	26.344		
3,300.00	3,263.77	3,228.64	3,206.97	13.25	12.24	-145.89	-288.29	217.62	635.24	611.24	24.00	26.467		
3,400.00	3,362.23	3,325.87	3,303.32	13.69	12.64	-145.86	-299.80	223.91	658.57	633.80	24.78	26.581		
3,500.00	3,460.70	3,423.11	3,399.67	14.14	13.04	-145.83	-311.31	230.20	681.91	656.36	25.55	26.689		
3,600.00	3,559.17	3,520.35	3,496.02	14.58	13.44	-145.81	-322.82	236.49	705.25	678.92	26.33	26.789		
3,700.00	3,657.64	3,617.59	3,592.37	15.03	13.84	-145.79	-334.33	242.78	728.58	701.48	27.10	26.884		
3,800.00	3,756.11	3,714.83	3,688.72	15.47	14.24	-145.77	-345.84	249.06	751.92	724.04	27.88	26.972		
3,900.00	3,854.58	3,812.07	3,785.07	15.92	14.64	-145.74	-357.35	255.35	775.25	746.60	28.65	27.056		
4,000.00	3,953.04	3,909.31	3,881.42	16.36	15.04	-145.73	-368.86	261.64	798.59	769.16	29.43	27.135		
4,100.00	4,051.51	4,006.54	3,977.77	16.81	15.44	-145.71	-380.37	267.93	821.93	791.72	30.21	27.210		
4,200.00	4,149.98	4,103.78	4,074.12	17.26	15.84	-145.69	-391.88	274.22	845.26	814.28	30.98	27.281		
4,300.00	4,248.45	4,201.02	4,170.47	17.70	16.24	-145.67	-403.39	280.51	868.60	836.84	31.76	27.348		
4,400.00	4,346.92	4,298.26	4,266.82	18.15	16.64	-145.66	-414.90	286.80	891.93	859.40	32.54	27.411		
4,500.00	4,445.38	4,395.50	4,363.17	18.60	17.04	-145.64	-426.41	293.08	915.27	881.95	33.32	27.472		
4,600.00	4,543.85	4,492.74	4,459.52	19.04	17.44	-145.63	-437.92	299.37	938.61	904.51	34.09	27.530		
4,700.00	4,642.32	4,589.98	4,555.87	19.49	17.84	-145.62	-449.43	305.66	961.94	927.07	34.87	27.585		
4,800.00	4,740.79	4,687.22	4,652.22	19.94	18.24	-145.61	-460.94	311.95	985.28	949.63	35.65	27.637		
4,900.00	4,839.26	4,784.45	4,748.57	20.38	18.65	-145.59	-472.45	318.24	1,008.62	972.19	36.43	27.687		
5,000.00	4,937.73	4,881.69	4,844.92	20.83	19.05	-145.58	-483.96	324.53	1,031.95	994.75	37.21	27.735		
5,100.00	5,036.19	4,978.93	4,941.27	21.28	19.45	-145.57	-495.47	330.81	1,055.29	1,017.30	37.99	27.781		

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 4E-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 4E-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 #3	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				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	5,134.66	5,076.17	5,037.62	21.73	19.85	-145.56	-506.98	337.10	1,078.63	1,039.86	38.76	27.825		
5,300.00	5,233.13	5,180.51	5,141.03	22.17	20.28	-145.56	-519.22	343.79	1,101.90	1,062.30	39.60	27.826		
5,400.00	5,331.60	5,312.33	5,272.14	22.62	20.79	-145.71	-531.07	350.26	1,123.11	1,082.51	40.61	27.657		
5,500.00	5,430.07	5,445.43	5,405.02	23.07	21.27	-146.09	-537.65	353.86	1,141.33	1,099.78	41.56	27.465		
5,600.00	5,528.54	5,568.96	5,528.54	23.52	21.67	-146.63	-539.03	354.61	1,156.69	1,114.31	42.38	27.292		
5,700.00	5,627.00	5,667.43	5,627.00	23.96	21.96	-147.10	-539.03	354.61	1,171.36	1,128.29	43.07	27.197		
5,800.00	5,725.47	5,765.90	5,725.47	24.41	22.25	-147.56	-539.03	354.61	1,186.10	1,142.34	43.76	27.107		
5,900.00	5,823.94	5,864.37	5,823.94	24.86	22.55	-148.00	-539.03	354.61	1,200.92	1,156.47	44.44	27.021		
6,000.00	5,922.41	5,962.84	5,922.41	25.31	22.84	-148.43	-539.03	354.61	1,215.80	1,170.67	45.13	26.939		
6,100.00	6,020.88	6,061.30	6,020.88	25.75	23.14	-148.86	-539.03	354.61	1,230.75	1,184.93	45.82	26.861		
6,200.00	6,119.34	6,159.77	6,119.34	26.20	23.44	-149.27	-539.03	354.61	1,245.77	1,199.26	46.51	26.786		
6,300.00	6,217.81	6,258.24	6,217.81	26.65	23.74	-149.67	-539.03	354.61	1,260.85	1,213.65	47.20	26.714		
6,400.00	6,316.28	6,356.71	6,316.28	27.10	24.04	-150.07	-539.03	354.61	1,275.98	1,228.10	47.89	26.645		
6,500.00	6,414.75	6,455.18	6,414.75	27.54	24.34	-150.45	-539.03	354.61	1,291.18	1,242.60	48.58	26.579		
6,600.00	6,513.22	6,553.65	6,513.22	27.99	24.65	-150.83	-539.03	354.61	1,306.43	1,257.16	49.27	26.516		
6,700.00	6,611.69	6,652.11	6,611.69	28.44	24.96	-151.20	-539.03	354.61	1,321.74	1,271.78	49.96	26.456		
6,800.00	6,710.15	6,750.58	6,710.15	28.89	25.26	-151.55	-539.03	354.61	1,337.10	1,286.44	50.65	26.397		
6,818.10	6,727.97	6,768.40	6,727.97	28.97	25.32	-151.62	-539.03	354.61	1,339.88	1,289.10	50.78	26.387		
6,850.00	6,759.42	6,799.85	6,759.42	29.11	25.42	-166.58	-539.03	354.61	1,344.88	1,293.88	51.00	26.372		
6,900.00	6,808.74	6,849.17	6,808.74	29.32	25.57	169.01	-539.03	354.61	1,353.03	1,301.70	51.33	26.359		
6,950.00	6,857.89	6,898.32	6,857.89	29.51	25.73	149.39	-539.03	354.61	1,361.55	1,309.89	51.65	26.359		
7,000.00	6,906.63	6,951.07	6,910.64	29.69	25.89	136.10	-538.84	354.61	1,370.39	1,318.40	51.98	26.361		
7,050.00	6,954.71	7,015.58	6,974.98	29.85	26.08	127.33	-534.42	354.66	1,379.17	1,326.83	52.34	26.351		
7,100.00	7,001.91	7,081.22	7,039.76	30.00	26.26	121.27	-524.00	354.77	1,387.67	1,335.01	52.66	26.352		
7,150.00	7,048.00	7,147.87	7,104.29	30.13	26.43	116.85	-507.41	354.94	1,395.85	1,342.91	52.95	26.364		
7,200.00	7,092.75	7,215.42	7,167.82	30.25	26.58	113.49	-484.54	355.17	1,403.65	1,350.45	53.20	26.386		
7,250.00	7,135.95	7,283.69	7,229.56	30.36	26.72	110.81	-455.46	355.47	1,411.01	1,357.59	53.42	26.414		
7,300.00	7,177.37	7,352.50	7,288.70	30.45	26.85	108.60	-420.33	355.83	1,417.88	1,364.26	53.62	26.444		
7,350.00	7,216.83	7,421.64	7,344.45	30.53	26.97	106.73	-379.49	356.24	1,424.23	1,370.42	53.80	26.471		
7,400.00	7,254.13	7,490.89	7,396.09	30.60	27.08	105.09	-333.39	356.72	1,430.01	1,376.03	53.99	26.489		
7,450.00	7,289.09	7,560.02	7,442.95	30.66	27.19	103.64	-282.61	357.24	1,435.21	1,381.04	54.17	26.493		
7,500.00	7,321.53	7,628.80	7,484.50	30.70	27.31	102.34	-227.84	357.80	1,439.81	1,385.43	54.38	26.478		
7,550.00	7,351.30	7,697.02	7,520.34	30.74	27.43	101.15	-169.82	358.39	1,443.79	1,389.18	54.61	26.439		
7,600.00	7,378.26	7,764.47	7,550.19	30.77	27.56	100.06	-109.37	359.01	1,447.14	1,392.27	54.87	26.374		
7,650.00	7,402.27	7,830.98	7,573.94	30.80	27.71	99.05	-47.27	359.64	1,449.88	1,394.71	55.17	26.280		
7,700.00	7,423.21	7,896.40	7,591.57	30.82	27.88	98.12	15.70	360.29	1,452.01	1,396.51	55.51	26.160		
7,750.00	7,440.99	7,960.61	7,603.22	30.83	28.07	97.26	78.82	360.93	1,453.54	1,397.66	55.88	26.012		
7,800.00	7,455.51	8,023.51	7,609.11	30.85	28.28	96.48	141.42	361.57	1,454.48	1,398.20	56.28	25.842		
7,850.00	7,466.72	8,079.88	7,610.00	30.88	28.49	95.82	197.78	362.15	1,454.89	1,398.20	56.69	25.663		
7,900.00	7,474.54	8,129.25	7,610.00	30.91	28.69	95.39	247.14	362.65	1,455.07	1,397.97	57.10	25.483		
7,950.00	7,478.95	8,179.04	7,610.00	30.95	28.92	95.17	296.93	363.16	1,455.03	1,397.50	57.53	25.293		
7,989.08	7,480.00	8,218.11	7,610.00	31.00	29.11	95.13	335.99	363.56	1,454.83	1,396.95	57.88	25.135		
8,000.00	7,480.00	8,229.02	7,610.00	31.02	29.16	95.13	346.91	363.67	1,454.75	1,396.77	57.98	25.089		
8,100.00	7,480.00	8,329.02	7,610.00	31.22	29.72	95.13	446.90	364.70	1,454.03	1,395.03	59.00	24.644		
8,200.00	7,480.00	8,429.02	7,610.00	31.54	30.34	95.13	546.89	365.72	1,453.31	1,393.15	60.16	24.156		
8,300.00	7,480.00	8,529.02	7,610.00	31.98	31.04	95.13	646.89	366.74	1,452.59	1,391.13	61.46	23.633		
8,400.00	7,480.00	8,629.01	7,610.00	32.54	31.80	95.14	746.88	367.77	1,451.87	1,388.98	62.89	23.084		
8,500.00	7,480.00	8,729.01	7,610.00	33.19	32.62	95.14	846.87	368.79	1,451.15	1,386.71	64.45	22.517		
8,600.00	7,480.00	8,829.01	7,610.00	33.93	33.50	95.14	946.86	369.81	1,450.43	1,384.32	66.11	21.940		
8,700.00	7,480.00	8,929.01	7,610.00	34.73	34.42	95.14	1,046.86	370.83	1,449.71	1,381.84	67.88	21.358		
8,800.00	7,480.00	9,029.00	7,610.00	35.58	35.39	95.15	1,146.85	371.86	1,448.99	1,379.25	69.74	20.776		
8,900.00	7,480.00	9,129.00	7,610.00	36.49	36.41	95.15	1,246.84	372.88	1,448.27	1,376.58	71.70	20.200		

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 4E-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 4E-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 #3	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	7,480.00	9,229.00	7,610.00	37.45	37.46	95.15	1,346.83	373.90	1,447.56	1,373.83	73.73	19.633	
9,100.00	7,480.00	9,329.00	7,610.00	38.45	38.55	95.16	1,446.82	374.93	1,446.84	1,371.00	75.84	19.077	
9,200.00	7,480.00	9,428.99	7,610.00	39.49	39.67	95.16	1,546.82	375.95	1,446.12	1,368.10	78.02	18.535	
9,300.00	7,480.00	9,528.99	7,610.00	40.56	40.82	95.16	1,646.81	376.97	1,445.40	1,365.14	80.26	18.009	
9,400.00	7,480.00	9,628.99	7,610.00	41.66	41.99	95.16	1,746.80	377.99	1,444.68	1,362.12	82.56	17.498	
9,500.00	7,480.00	9,728.98	7,610.00	42.79	43.20	95.17	1,846.79	379.02	1,443.96	1,359.04	84.92	17.005	
9,600.00	7,480.00	9,828.98	7,610.00	43.95	44.42	95.17	1,946.78	380.04	1,443.24	1,355.92	87.32	16.528	
9,700.00	7,480.00	9,928.98	7,610.00	45.13	45.67	95.17	2,046.78	381.06	1,442.52	1,352.75	89.77	16.069	
9,800.00	7,480.00	10,028.98	7,610.00	46.34	46.94	95.17	2,146.77	382.09	1,441.80	1,349.54	92.26	15.628	
9,900.00	7,480.00	10,128.97	7,610.00	47.57	48.23	95.18	2,246.76	383.11	1,441.08	1,346.29	94.79	15.203	
10,000.00	7,480.00	10,228.97	7,610.00	48.82	49.53	95.18	2,346.75	384.13	1,440.36	1,343.01	97.35	14.796	
10,100.00	7,480.00	10,328.97	7,610.00	50.08	50.85	95.18	2,446.75	385.15	1,439.64	1,339.69	99.95	14.404	
10,200.00	7,480.00	10,428.97	7,610.00	51.36	52.18	95.18	2,546.74	386.18	1,438.92	1,336.35	102.57	14.028	
10,300.00	7,480.00	10,528.96	7,610.00	52.66	53.52	95.19	2,646.73	387.20	1,438.20	1,332.97	105.23	13.667	
10,400.00	7,480.00	10,628.96	7,610.00	53.97	54.88	95.19	2,746.72	388.22	1,437.48	1,329.57	107.91	13.321	
10,500.00	7,480.00	10,728.96	7,610.00	55.29	56.25	95.19	2,846.71	389.25	1,436.76	1,326.15	110.61	12.989	
10,600.00	7,480.00	10,828.96	7,610.00	56.63	57.63	95.19	2,946.71	390.27	1,436.04	1,322.70	113.34	12.670	
10,700.00	7,480.00	10,928.95	7,610.00	57.98	59.02	95.20	3,046.70	391.29	1,435.32	1,319.24	116.09	12.364	
10,800.00	7,480.00	11,028.95	7,610.00	59.34	60.42	95.20	3,146.69	392.31	1,434.60	1,315.75	118.85	12.070	
10,900.00	7,480.00	11,128.95	7,610.00	60.71	61.83	95.20	3,246.68	393.34	1,433.88	1,312.25	121.64	11.788	
11,000.00	7,480.00	11,228.95	7,610.00	62.09	63.24	95.20	3,346.67	394.36	1,433.17	1,308.72	124.44	11.517	
11,100.00	7,480.00	11,328.94	7,610.00	63.47	64.66	95.21	3,446.67	395.38	1,432.45	1,305.19	127.26	11.256	
11,200.00	7,480.00	11,428.94	7,610.00	64.87	66.09	95.21	3,546.66	396.41	1,431.73	1,301.64	130.09	11.006	
11,300.00	7,480.00	11,528.94	7,610.00	66.27	67.53	95.21	3,646.65	397.43	1,431.01	1,298.07	132.93	10.765	
11,400.00	7,480.00	11,628.94	7,610.00	67.68	68.97	95.21	3,746.64	398.45	1,430.29	1,294.49	135.79	10.533	
11,500.00	7,480.00	11,728.93	7,610.00	69.10	70.42	95.22	3,846.64	399.47	1,429.57	1,290.91	138.66	10.310	
11,600.00	7,480.00	11,828.93	7,610.00	70.53	71.87	95.22	3,946.63	400.50	1,428.85	1,287.30	141.54	10.095	
11,700.00	7,480.00	11,928.93	7,610.00	71.96	73.33	95.22	4,046.62	401.52	1,428.13	1,283.69	144.44	9.888	
11,800.00	7,480.00	12,028.92	7,610.00	73.39	74.79	95.23	4,146.61	402.54	1,427.41	1,280.07	147.34	9.688	
11,900.00	7,480.00	12,128.92	7,610.00	74.83	76.26	95.23	4,246.60	403.56	1,426.69	1,276.44	150.25	9.496	
12,000.00	7,480.00	12,228.92	7,610.00	76.28	77.73	95.23	4,346.60	404.59	1,425.97	1,272.80	153.17	9.310	
12,100.00	7,480.00	12,328.92	7,610.00	77.73	79.20	95.23	4,446.59	405.61	1,425.25	1,269.15	156.10	9.131	
12,200.00	7,480.00	12,428.91	7,610.00	79.18	80.68	95.24	4,546.58	406.63	1,424.53	1,265.50	159.03	8.957	
12,300.00	7,480.00	12,528.91	7,610.00	80.64	82.17	95.24	4,646.57	407.66	1,423.81	1,261.83	161.98	8.790	
12,400.00	7,480.00	12,628.91	7,610.00	82.11	83.65	95.24	4,746.57	408.68	1,423.09	1,258.16	164.93	8.629	
12,500.00	7,480.00	12,728.91	7,610.00	83.57	85.14	95.24	4,846.56	409.70	1,422.37	1,254.49	167.89	8.472	
12,600.00	7,480.00	12,828.90	7,610.00	85.05	86.63	95.25	4,946.55	410.72	1,421.65	1,250.80	170.85	8.321	
12,700.00	7,480.00	12,928.90	7,610.00	86.52	88.13	95.25	5,046.54	411.75	1,420.93	1,247.11	173.82	8.175	
12,800.00	7,480.00	13,028.90	7,610.00	88.00	89.63	95.25	5,146.53	412.77	1,420.21	1,243.42	176.80	8.033	
12,900.00	7,480.00	13,128.90	7,610.00	89.48	91.13	95.25	5,246.53	413.79	1,419.50	1,239.72	179.78	7.896	
13,000.00	7,480.00	13,228.89	7,610.00	90.96	92.63	95.26	5,346.52	414.82	1,418.78	1,236.01	182.76	7.763	
13,100.00	7,480.00	13,328.89	7,610.00	92.45	94.14	95.26	5,446.51	415.84	1,418.06	1,232.30	185.75	7.634	
13,200.00	7,480.00	13,428.89	7,610.00	93.94	95.65	95.26	5,546.50	416.86	1,417.34	1,228.59	188.75	7.509	
13,300.00	7,480.00	13,528.89	7,610.00	95.43	97.16	95.27	5,646.49	417.88	1,416.62	1,224.87	191.75	7.388	
13,339.08	7,480.00	13,567.97	7,610.00	96.01	97.75	95.27	5,685.57	418.28	1,416.34	1,223.41	192.92	7.341	
13,359.78	7,480.00	13,588.66	7,610.00	96.33	98.06	95.27	5,706.27	418.50	1,416.26	1,222.72	193.55	7.317	
13,400.00	7,480.00	13,628.88	7,610.00	96.93	98.67	95.27	5,746.49	418.91	1,416.54	1,221.78	194.76	7.273	
13,500.00	7,480.00	13,728.83	7,610.00	98.46	100.18	95.26	5,846.43	419.93	1,419.68	1,221.89	197.79	7.178	
13,600.00	7,480.00	13,828.60	7,610.00	100.01	101.69	95.25	5,946.20	420.95	1,426.29	1,225.44	200.85	7.101	
13,700.00	7,480.00	13,928.09	7,610.00	101.59	103.20	95.23	6,045.67	421.97	1,436.36	1,232.43	203.92	7.044	
13,800.00	7,480.00	14,027.15	7,610.00	103.20	104.71	95.21	6,144.74	422.98	1,449.88	1,242.86	207.02	7.004	
13,900.00	7,480.00	14,125.69	7,610.00	104.82	106.21	95.18	6,243.27	423.99	1,466.84	1,256.72	210.12	6.981	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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	7,480.00	14,223.57	7,610.00	106.47	107.70	95.14	6,341.14	424.99	1,487.22	1,273.99	213.23	6.975 SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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
0.00	0.00	0.00	0.00	0.00	0.00	90.21	-0.25	69.93	69.94				
100.00	100.00	100.00	100.00	0.14	0.14	90.21	-0.25	69.93	69.94	69.66	0.28	253.366	
200.00	200.00	200.00	200.00	0.50	0.50	90.21	-0.25	69.93	69.94	68.94	0.99	70.430	CC, ES
300.00	300.00	298.23	298.21	0.85	0.84	91.14	-1.42	71.15	71.19	69.47	1.71	41.518	
400.00	400.00	396.22	396.07	1.21	1.18	93.75	-4.90	74.78	75.04	72.59	2.46	30.550	
500.00	500.00	493.76	493.24	1.57	1.53	97.52	-10.67	80.79	81.77	78.56	3.22	25.426	
600.00	600.00	590.62	589.41	1.93	1.90	101.83	-18.66	89.12	91.66	87.68	3.99	23.000	
700.00	699.98	687.53	685.22	2.28	2.29	-143.69	-28.77	99.64	106.15	101.43	4.72	22.491	
800.00	799.84	785.79	782.25	2.62	2.69	-141.47	-39.49	110.80	124.29	118.89	5.40	23.001	
900.00	899.45	883.57	878.81	2.97	3.10	-140.61	-50.15	121.91	145.19	139.09	6.09	23.827	
1,000.00	998.70	980.75	974.78	3.34	3.51	-140.65	-60.75	132.95	168.72	161.92	6.79	24.830	
1,102.07	1,099.50	1,079.21	1,072.00	3.73	3.93	-141.25	-71.49	144.14	195.46	187.94	7.52	25.988	
1,200.00	1,195.93	1,173.27	1,164.90	4.12	4.33	-142.23	-81.75	154.83	222.48	214.26	8.22	27.052	
1,300.00	1,294.40	1,269.33	1,259.75	4.52	4.74	-143.01	-92.22	165.74	250.12	241.18	8.95	27.957	
1,400.00	1,392.87	1,365.38	1,354.61	4.94	5.15	-143.64	-102.70	176.65	277.80	268.12	9.68	28.709	
1,500.00	1,491.34	1,461.43	1,449.46	5.36	5.56	-144.15	-113.18	187.57	305.50	295.09	10.41	29.340	
1,600.00	1,589.81	1,557.49	1,544.32	5.78	5.97	-144.58	-123.65	198.48	333.22	322.07	11.15	29.878	
1,700.00	1,688.27	1,653.54	1,639.17	6.21	6.38	-144.94	-134.13	209.39	360.96	349.06	11.90	30.341	
1,800.00	1,786.74	1,749.60	1,734.03	6.64	6.79	-145.25	-144.61	220.31	388.70	376.06	12.64	30.743	
1,900.00	1,885.21	1,845.65	1,828.88	7.07	7.21	-145.52	-155.08	231.22	416.46	403.06	13.39	31.094	
2,000.00	1,983.68	1,941.70	1,923.74	7.51	7.62	-145.76	-165.56	242.13	444.22	430.08	14.14	31.405	
2,100.00	2,082.15	2,037.76	2,018.59	7.95	8.03	-145.96	-176.04	253.04	471.99	457.09	14.90	31.681	
2,200.00	2,180.62	2,133.81	2,113.45	8.38	8.45	-146.15	-186.51	263.96	499.76	484.11	15.65	31.927	
2,300.00	2,279.08	2,229.87	2,208.30	8.82	8.86	-146.31	-196.99	274.87	527.54	511.13	16.41	32.149	
2,400.00	2,377.55	2,325.92	2,303.16	9.26	9.28	-146.46	-207.46	285.78	555.32	538.16	17.17	32.349	
2,500.00	2,476.02	2,421.97	2,398.01	9.70	9.69	-146.60	-217.94	296.70	583.11	565.18	17.92	32.531	
2,600.00	2,574.49	2,518.03	2,492.87	10.14	10.10	-146.72	-228.42	307.61	610.90	592.21	18.68	32.697	
2,700.00	2,672.96	2,614.08	2,587.72	10.59	10.52	-146.83	-238.89	318.52	638.69	619.24	19.44	32.849	
2,800.00	2,771.43	2,710.13	2,682.58	11.03	10.93	-146.93	-249.37	329.43	666.48	646.28	20.20	32.988	
2,900.00	2,869.89	2,806.19	2,777.43	11.47	11.35	-147.03	-259.85	340.35	694.27	673.31	20.96	33.117	
3,000.00	2,968.36	2,902.24	2,872.29	11.91	11.76	-147.12	-270.32	351.26	722.07	700.34	21.73	33.235	
3,100.00	3,066.83	2,998.30	2,967.14	12.36	12.18	-147.20	-280.80	362.17	749.87	727.38	22.49	33.345	
3,200.00	3,165.30	3,094.35	3,062.00	12.80	12.59	-147.27	-291.28	373.09	777.66	754.41	23.25	33.448	
3,300.00	3,263.77	3,190.40	3,156.85	13.25	13.01	-147.34	-301.75	384.00	805.46	781.45	24.01	33.543	
3,400.00	3,362.23	3,286.46	3,251.71	13.69	13.42	-147.41	-312.23	394.91	833.26	808.49	24.78	33.632	
3,500.00	3,460.70	3,382.51	3,346.56	14.14	13.84	-147.47	-322.71	405.83	861.07	835.53	25.54	33.715	
3,600.00	3,559.17	3,478.56	3,441.42	14.58	14.25	-147.52	-333.18	416.74	888.87	862.57	26.30	33.794	
3,700.00	3,657.64	3,574.62	3,536.27	15.03	14.67	-147.58	-343.66	427.65	916.67	889.60	27.07	33.867	
3,800.00	3,756.11	3,670.67	3,631.13	15.47	15.08	-147.63	-354.14	438.56	944.48	916.64	27.83	33.936	
3,900.00	3,854.58	3,766.73	3,725.98	15.92	15.50	-147.67	-364.61	449.48	972.28	943.68	28.60	34.001	
4,000.00	3,953.04	3,862.78	3,820.84	16.36	15.91	-147.72	-375.09	460.39	1,000.08	970.72	29.36	34.063	
4,100.00	4,051.51	3,958.83	3,915.69	16.81	16.33	-147.76	-385.56	471.30	1,027.89	997.77	30.12	34.121	
4,200.00	4,149.98	4,054.89	4,010.55	17.26	16.74	-147.80	-396.04	482.22	1,055.70	1,024.81	30.89	34.176	
4,300.00	4,248.45	4,150.94	4,105.40	17.70	17.16	-147.84	-406.52	493.13	1,083.50	1,051.85	31.65	34.229	
4,400.00	4,346.92	4,247.00	4,200.26	18.15	17.57	-147.88	-416.99	504.04	1,111.31	1,078.89	32.42	34.279	
4,500.00	4,445.38	4,343.05	4,295.11	18.60	17.99	-147.91	-427.47	514.96	1,139.12	1,105.93	33.19	34.326	
4,600.00	4,543.85	4,439.10	4,389.97	19.04	18.40	-147.94	-437.95	525.87	1,166.92	1,132.97	33.95	34.371	
4,700.00	4,642.32	4,535.16	4,484.82	19.49	18.82	-147.98	-448.42	536.78	1,194.73	1,160.02	34.72	34.414	
4,800.00	4,740.79	4,648.56	4,596.88	19.94	19.30	-148.02	-460.51	549.37	1,222.32	1,186.71	35.61	34.323	
4,900.00	4,839.26	4,800.14	4,747.44	20.38	19.91	-148.23	-472.53	561.89	1,246.63	1,209.90	36.73	33.938	
5,000.00	4,937.73	4,954.43	4,901.42	20.83	20.45	-148.65	-479.08	568.71	1,266.61	1,228.85	37.76	33.542	
5,100.00	5,036.19	5,089.22	5,036.19	21.28	20.86	-149.16	-480.25	569.93	1,282.50	1,243.89	38.61	33.217	

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 4E-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 4E-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 #3	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	5,134.66	5,187.69	5,134.66	21.73	21.14	-149.55	-480.25	569.93	1,297.56	1,258.26	39.30	33.018	
5,300.00	5,233.13	5,286.16	5,233.13	22.17	21.42	-149.94	-480.25	569.93	1,312.68	1,272.69	39.99	32.826	
5,400.00	5,331.60	5,384.63	5,331.60	22.62	21.70	-150.31	-480.25	569.93	1,327.86	1,287.18	40.68	32.642	
5,500.00	5,430.07	5,483.10	5,430.07	23.07	21.99	-150.68	-480.25	569.93	1,343.09	1,301.72	41.37	32.465	
5,600.00	5,528.54	5,581.56	5,528.54	23.52	22.28	-151.04	-480.25	569.93	1,358.37	1,316.31	42.06	32.294	
5,700.00	5,627.00	5,680.03	5,627.00	23.96	22.56	-151.39	-480.25	569.93	1,373.71	1,330.95	42.76	32.130	
5,800.00	5,725.47	5,778.50	5,725.47	24.41	22.85	-151.73	-480.25	569.93	1,389.09	1,345.65	43.45	31.971	
5,900.00	5,823.94	5,876.97	5,823.94	24.86	23.15	-152.07	-480.25	569.93	1,404.53	1,360.38	44.14	31.818	
6,000.00	5,922.41	5,975.44	5,922.41	25.31	23.44	-152.40	-480.25	569.93	1,420.01	1,375.17	44.84	31.671	
6,100.00	6,020.88	6,073.91	6,020.88	25.75	23.74	-152.72	-480.25	569.93	1,435.53	1,390.00	45.53	31.528	
6,200.00	6,119.34	6,172.37	6,119.34	26.20	24.03	-153.03	-480.25	569.93	1,451.10	1,404.87	46.23	31.390	
6,300.00	6,217.81	6,270.84	6,217.81	26.65	24.33	-153.34	-480.25	569.93	1,466.71	1,419.78	46.92	31.257	
6,400.00	6,316.28	6,369.31	6,316.28	27.10	24.63	-153.64	-480.25	569.93	1,482.36	1,434.74	47.62	31.129	
6,500.00	6,414.75	6,467.78	6,414.75	27.54	24.93	-153.94	-480.25	569.93	1,498.05	1,449.73	48.32	31.004	
13,100.00	7,480.00	13,095.14	7,390.00	92.45	94.63	86.55	5,478.83	498.67	1,497.66	1,311.40	186.26	8.041	
13,200.00	7,480.00	13,195.10	7,390.00	93.94	96.16	86.55	5,578.78	497.48	1,494.72	1,305.45	189.28	7.897	
13,300.00	7,480.00	13,295.05	7,390.00	95.43	97.69	86.54	5,678.73	496.28	1,491.79	1,299.49	192.30	7.758	
13,339.08	7,480.00	13,334.12	7,390.00	96.01	98.29	86.54	5,717.79	495.82	1,490.64	1,297.16	193.49	7.704	
13,400.00	7,480.00	13,395.03	7,390.00	96.93	99.22	86.54	5,778.69	495.09	1,489.50	1,294.16	195.34	7.625	
13,423.34	7,480.00	13,418.36	7,390.00	97.29	99.58	86.54	5,802.03	494.81	1,489.41	1,293.35	196.05	7.597	
13,500.00	7,480.00	13,495.02	7,390.00	98.46	100.75	86.54	5,878.68	493.89	1,490.43	1,292.03	198.40	7.512	
13,600.00	7,480.00	13,594.91	7,390.00	100.01	102.29	86.54	5,978.57	492.70	1,494.84	1,293.36	201.48	7.419 SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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
1,300.00	1,294.40	1,635.13	1,597.45	4.52	6.28	16.93	-143.95	-1,530.41	1,499.05	1,490.56	8.48	176.747	
1,400.00	1,392.87	1,704.76	1,664.93	4.94	6.61	16.71	-151.56	-1,514.97	1,461.60	1,452.57	9.03	161.860	
1,500.00	1,491.34	1,784.52	1,742.25	5.36	6.99	16.39	-161.90	-1,498.35	1,425.53	1,415.89	9.65	147.780	
1,600.00	1,589.81	1,907.72	1,860.91	5.78	7.63	15.72	-180.61	-1,471.05	1,388.36	1,377.93	10.43	133.111	
1,700.00	1,688.27	2,003.06	1,952.56	6.21	8.12	15.18	-194.85	-1,449.00	1,350.44	1,339.32	11.12	121.428	
1,800.00	1,786.74	2,108.99	2,054.65	6.64	8.65	14.65	-208.37	-1,424.20	1,312.23	1,300.43	11.80	111.205	
1,900.00	1,885.21	2,191.60	2,134.29	7.07	9.07	14.24	-218.19	-1,404.59	1,273.69	1,261.23	12.46	102.204	
2,000.00	1,983.68	2,293.00	2,231.82	7.51	9.60	13.63	-231.99	-1,380.53	1,235.40	1,222.23	13.18	93.757	
2,100.00	2,082.15	2,380.00	2,315.58	7.95	10.04	13.10	-243.05	-1,359.75	1,196.97	1,183.11	13.86	86.383	
2,200.00	2,180.62	2,473.00	2,405.36	8.38	10.50	12.58	-253.50	-1,337.85	1,158.79	1,144.27	14.52	79.780	
2,300.00	2,279.08	2,566.75	2,495.88	8.82	10.96	12.05	-263.47	-1,315.60	1,120.45	1,105.25	15.21	73.685	
2,400.00	2,377.55	2,651.84	2,578.09	9.26	11.38	11.54	-272.51	-1,295.59	1,082.41	1,066.52	15.89	68.122	
2,500.00	2,476.02	2,728.99	2,652.63	9.70	11.76	10.98	-281.96	-1,278.09	1,045.46	1,028.84	16.62	62.919	
2,600.00	2,574.49	2,831.51	2,751.43	10.14	12.29	10.08	-296.26	-1,254.73	1,008.78	991.38	17.40	57.964	
2,700.00	2,672.96	2,923.76	2,840.31	10.59	12.76	9.23	-308.60	-1,233.33	971.84	953.66	18.18	53.459	
2,800.00	2,771.43	3,013.63	2,926.93	11.03	13.21	8.34	-320.59	-1,212.63	935.23	916.26	18.97	49.306	
2,900.00	2,869.89	3,108.00	3,018.13	11.47	13.67	7.43	-331.90	-1,191.19	898.89	879.15	19.75	45.515	
3,000.00	2,968.36	3,205.45	3,112.08	11.91	14.17	6.36	-344.07	-1,168.35	862.20	841.64	20.56	41.937	
3,100.00	3,066.83	3,291.60	3,195.29	12.36	14.59	5.41	-353.82	-1,148.27	825.64	804.26	21.38	38.619	
3,200.00	3,165.30	3,385.19	3,285.72	12.80	15.05	4.21	-365.56	-1,127.19	790.34	768.12	22.22	35.563	
3,300.00	3,263.77	3,495.53	3,392.30	13.25	15.60	2.85	-376.57	-1,100.86	753.46	730.44	23.02	32.734	
3,400.00	3,362.23	3,594.33	3,487.32	13.69	16.12	1.45	-386.30	-1,075.65	715.37	691.50	23.87	29.964	
3,500.00	3,460.70	3,689.49	3,578.61	14.14	16.63	-0.10	-395.90	-1,050.56	676.97	652.20	24.77	27.327	
3,600.00	3,559.17	3,754.47	3,641.18	14.58	16.94	-1.26	-402.79	-1,034.44	640.54	614.73	25.81	24.816	
3,700.00	3,657.64	3,829.93	3,714.22	15.03	17.30	-2.77	-412.34	-1,018.06	607.98	581.10	26.87	22.623	
3,800.00	3,756.11	3,913.16	3,794.95	15.47	17.66	-4.62	-423.84	-1,001.40	577.99	550.05	27.94	20.686	
3,900.00	3,854.58	4,001.59	3,881.46	15.92	17.99	-6.42	-433.64	-986.02	549.93	521.00	28.93	19.008	
4,000.00	3,953.04	4,091.30	3,969.84	16.36	18.29	-8.05	-441.02	-972.53	523.23	493.38	29.86	17.524	
4,100.00	4,051.51	4,180.47	4,058.03	16.81	18.54	-9.62	-447.26	-960.87	498.10	467.35	30.76	16.196	
4,200.00	4,149.98	4,269.32	4,146.19	17.26	18.77	-11.11	-452.56	-951.17	474.69	443.07	31.62	15.012	
4,300.00	4,248.45	4,357.50	4,233.90	17.70	18.95	-12.54	-457.41	-943.54	453.27	420.82	32.46	13.966	
4,400.00	4,346.92	4,452.57	4,328.65	18.15	19.14	-14.01	-462.15	-937.31	433.62	400.38	33.24	13.043	
4,500.00	4,445.38	4,549.38	4,425.21	18.60	19.30	-15.50	-466.11	-931.60	414.29	380.30	34.00	12.186	
4,600.00	4,543.85	4,645.72	4,521.42	19.04	19.43	-16.80	-468.47	-927.42	395.51	360.82	34.69	11.400	
4,700.00	4,642.32	4,742.66	4,618.31	19.49	19.55	-18.01	-469.86	-924.34	377.24	341.88	35.36	10.668	
4,800.00	4,740.79	4,841.10	4,716.71	19.94	19.66	-19.25	-470.79	-921.73	359.24	323.23	36.01	9.977	
4,900.00	4,839.26	4,941.31	4,816.89	20.38	19.77	-20.53	-470.93	-919.24	341.03	304.40	36.63	9.309	
5,000.00	4,937.73	5,041.80	4,917.33	20.83	19.89	-21.90	-470.38	-916.39	322.29	285.03	37.26	8.650	
5,100.00	5,036.19	5,137.60	5,013.09	21.28	19.97	-23.33	-469.45	-913.56	303.37	265.45	37.93	7.999	
5,200.00	5,134.66	5,230.48	5,105.95	21.73	20.04	-24.71	-468.94	-912.47	286.20	247.60	38.60	7.414	
5,300.00	5,233.13	5,328.01	5,203.49	22.17	20.11	-26.14	-468.70	-912.86	270.49	231.27	39.23	6.895	
5,400.00	5,331.60	5,427.51	5,302.98	22.62	20.18	-27.70	-468.02	-913.31	254.71	214.87	39.84	6.393	
5,500.00	5,430.07	5,526.29	5,401.76	23.07	20.24	-29.40	-467.00	-913.76	238.87	198.40	40.47	5.902	
5,600.00	5,528.54	5,624.97	5,500.43	23.52	20.31	-31.30	-465.81	-914.25	223.15	182.03	41.12	5.427	
5,700.00	5,627.00	5,723.32	5,598.78	23.96	20.42	-33.73	-465.17	-913.98	207.70	165.85	41.85	4.963	
5,800.00	5,725.47	5,821.47	5,696.92	24.41	20.51	-36.94	-465.35	-912.67	192.79	150.18	42.61	4.524	
5,900.00	5,823.94	5,919.98	5,795.42	24.86	20.58	-40.29	-464.90	-912.35	178.53	135.21	43.32	4.121	
6,000.00	5,922.41	6,018.66	5,894.09	25.31	20.63	-43.65	-463.57	-913.41	164.78	120.81	43.97	3.747	
6,100.00	6,020.88	6,117.40	5,992.80	25.75	20.67	-47.30	-461.81	-915.15	151.57	106.98	44.59	3.399	
6,200.00	6,119.34	6,216.45	6,091.79	26.20	20.72	-51.40	-459.69	-917.36	138.87	93.71	45.16	3.075	
6,300.00	6,217.81	6,315.49	6,190.78	26.65	20.76	-56.17	-457.18	-919.73	126.68	81.02	45.66	2.774	
6,400.00	6,316.28	6,414.09	6,289.31	27.10	20.80	-61.78	-454.52	-922.26	115.41	69.36	46.05	2.506	

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 4E-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 4E-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 #3	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		
6,500.00	6,414.75	6,512.77	6,387.92	27.54	20.84	-68.44	-451.87	-924.93	105.49	59.25	46.24	2.281		
6,600.00	6,513.22	6,611.51	6,486.59	27.99	20.89	-76.42	-449.15	-927.44	97.24	51.12	46.11	2.109		
6,700.00	6,611.69	6,710.10	6,585.11	28.44	20.94	-85.79	-446.34	-929.68	91.20	45.67	45.53	2.003		
6,800.00	6,710.15	6,808.54	6,683.49	28.89	21.00	-96.31	-443.53	-931.59	88.09	43.64	44.45	1.982 ES, SF		
6,818.10	6,727.97	6,826.34	6,701.29	28.97	21.01	-98.29	-443.02	-931.90	87.88	43.67	44.21	1.988		
6,823.38	6,733.18	6,831.54	6,706.48	28.99	21.01	-101.12	-442.87	-931.98	87.86	43.72	44.14	1.990 CC		
6,850.00	6,759.42	6,857.71	6,732.64	29.11	21.03	-116.07	-442.13	-932.41	88.41	44.59	43.82	2.017		
6,900.00	6,808.74	6,906.95	6,781.85	29.32	21.06	-144.01	-440.78	-933.11	92.17	48.79	43.38	2.125		
6,950.00	6,857.89	6,956.06	6,830.94	29.51	21.10	-165.87	-439.47	-933.68	99.14	55.92	43.22	2.294		
7,000.00	6,906.63	7,004.80	6,879.66	29.69	21.14	179.81	-438.23	-934.12	108.95	65.65	43.30	2.516		
7,050.00	6,954.71	7,053.14	6,927.99	29.85	21.18	171.04	-437.02	-934.48	121.41	77.83	43.58	2.786		
7,100.00	7,001.91	7,100.68	6,975.51	30.00	21.21	165.79	-435.86	-934.82	136.43	92.44	44.00	3.101		
7,150.00	7,048.00	7,147.16	7,021.98	30.13	21.25	162.69	-434.75	-935.15	154.06	109.57	44.50	3.462		
7,200.00	7,092.75	7,192.36	7,067.16	30.25	21.29	160.90	-433.68	-935.45	174.37	129.33	45.04	3.871		
7,250.00	7,135.95	7,235.99	7,110.78	30.36	21.32	159.85	-432.68	-935.74	197.39	151.81	45.59	4.330		
7,300.00	7,177.37	7,277.88	7,152.66	30.45	21.36	159.20	-431.76	-936.01	223.16	177.04	46.11	4.839		
7,350.00	7,216.83	7,317.82	7,192.59	30.53	21.39	158.73	-430.91	-936.26	251.62	205.01	46.61	5.399		
7,400.00	7,254.13	7,355.99	7,230.75	30.60	21.42	158.30	-430.14	-936.50	282.72	235.66	47.06	6.008		
7,450.00	7,289.09	7,390.11	7,264.87	30.66	21.46	157.65	-429.50	-936.67	316.39	268.92	47.46	6.666		
7,500.00	7,321.53	7,421.97	7,296.73	30.70	21.50	156.81	-429.01	-936.74	352.54	304.71	47.82	7.371		
7,550.00	7,351.30	7,451.08	7,325.83	30.74	21.53	155.66	-428.63	-936.74	390.98	342.84	48.14	8.122		
7,600.00	7,378.26	7,477.30	7,352.05	30.77	21.56	154.08	-428.35	-936.68	431.52	383.10	48.42	8.912		
7,650.00	7,402.27	7,500.54	7,375.29	30.80	21.58	151.93	-428.16	-936.59	473.92	425.27	48.66	9.740		
7,700.00	7,423.21	7,520.70	7,395.45	30.82	21.61	148.99	-428.03	-936.47	517.98	469.12	48.86	10.601		
7,750.00	7,440.99	7,537.96	7,412.71	30.83	21.63	144.95	-427.94	-936.35	563.45	514.41	49.04	11.490		
7,800.00	7,455.51	7,552.33	7,427.07	30.85	21.64	139.34	-427.88	-936.24	610.08	560.88	49.19	12.402		
7,850.00	7,466.72	7,563.41	7,438.16	30.88	21.66	131.36	-427.84	-936.16	657.63	608.31	49.32	13.334		
7,900.00	7,474.54	7,571.18	7,445.92	30.91	21.67	120.01	-427.81	-936.09	705.88	656.45	49.43	14.281		
7,950.00	7,478.95	7,575.61	7,450.35	30.95	21.67	104.62	-427.80	-936.06	754.58	705.06	49.52	15.238		
7,989.08	7,480.00	7,576.75	7,451.49	31.00	21.67	90.39	-427.80	-936.05	792.80	743.22	49.58	15.990		
8,000.00	7,480.00	7,576.78	7,451.52	31.02	21.67	90.40	-427.80	-936.05	803.49	753.89	49.60	16.201		
8,100.00	7,480.00	7,577.08	7,451.82	31.22	21.67	90.50	-427.80	-936.05	901.64	851.92	49.72	18.135		
8,200.00	7,480.00	7,577.38	7,452.12	31.54	21.67	90.61	-427.80	-936.04	1,000.16	950.34	49.81	20.078		
8,300.00	7,480.00	7,577.67	7,452.42	31.98	21.67	90.71	-427.79	-936.04	1,098.94	1,049.05	49.89	22.027		
8,400.00	7,480.00	7,577.97	7,452.71	32.54	21.67	90.82	-427.79	-936.04	1,197.93	1,147.97	49.96	23.980		
8,500.00	7,480.00	7,578.26	7,453.00	33.19	21.67	90.92	-427.79	-936.04	1,297.07	1,247.06	50.01	25.936		
8,600.00	7,480.00	7,578.55	7,453.29	33.93	21.67	91.02	-427.79	-936.03	1,396.34	1,346.28	50.06	27.894		
8,700.00	7,480.00	7,578.83	7,453.58	34.73	21.67	91.12	-427.79	-936.03	1,495.70	1,445.60	50.10	29.854		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4E-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 4E-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 #3	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						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
2,800.00	2,771.43	3,003.92	2,970.38	11.03	12.87	126.57	1,311.12	73.54	1,496.76	1,474.00	22.76	65.764		
2,900.00	2,869.89	3,084.71	3,049.46	11.47	13.45	127.50	1,297.94	83.55	1,494.69	1,470.97	23.72	63.003		
3,000.00	2,968.36	3,180.46	3,143.26	11.91	14.12	128.59	1,282.47	95.04	1,493.32	1,468.55	24.77	60.286		
3,057.56	3,025.04	3,226.31	3,188.24	12.17	14.44	129.10	1,275.37	100.32	1,493.05	1,467.73	25.32	58.972 CC		
3,100.00	3,066.83	3,263.52	3,224.81	12.36	14.70	129.51	1,269.84	104.45	1,493.18	1,467.44	25.74	58.012		
3,200.00	3,165.30	3,366.08	3,325.62	12.80	15.39	130.62	1,254.48	115.34	1,493.60	1,466.80	26.81	55.718		
3,300.00	3,263.77	3,458.03	3,416.17	13.25	16.00	131.57	1,241.05	124.14	1,494.56	1,466.75	27.81	53.748 ES		
3,400.00	3,362.23	3,551.10	3,507.81	13.69	16.62	132.53	1,227.65	133.18	1,496.23	1,467.41	28.82	51.925		
3,500.00	3,460.70	3,644.79	3,600.00	14.14	17.26	133.52	1,214.08	142.96	1,498.58	1,468.73	29.84	50.215 SF		

Cathedral Energy Services

Anticollision Report

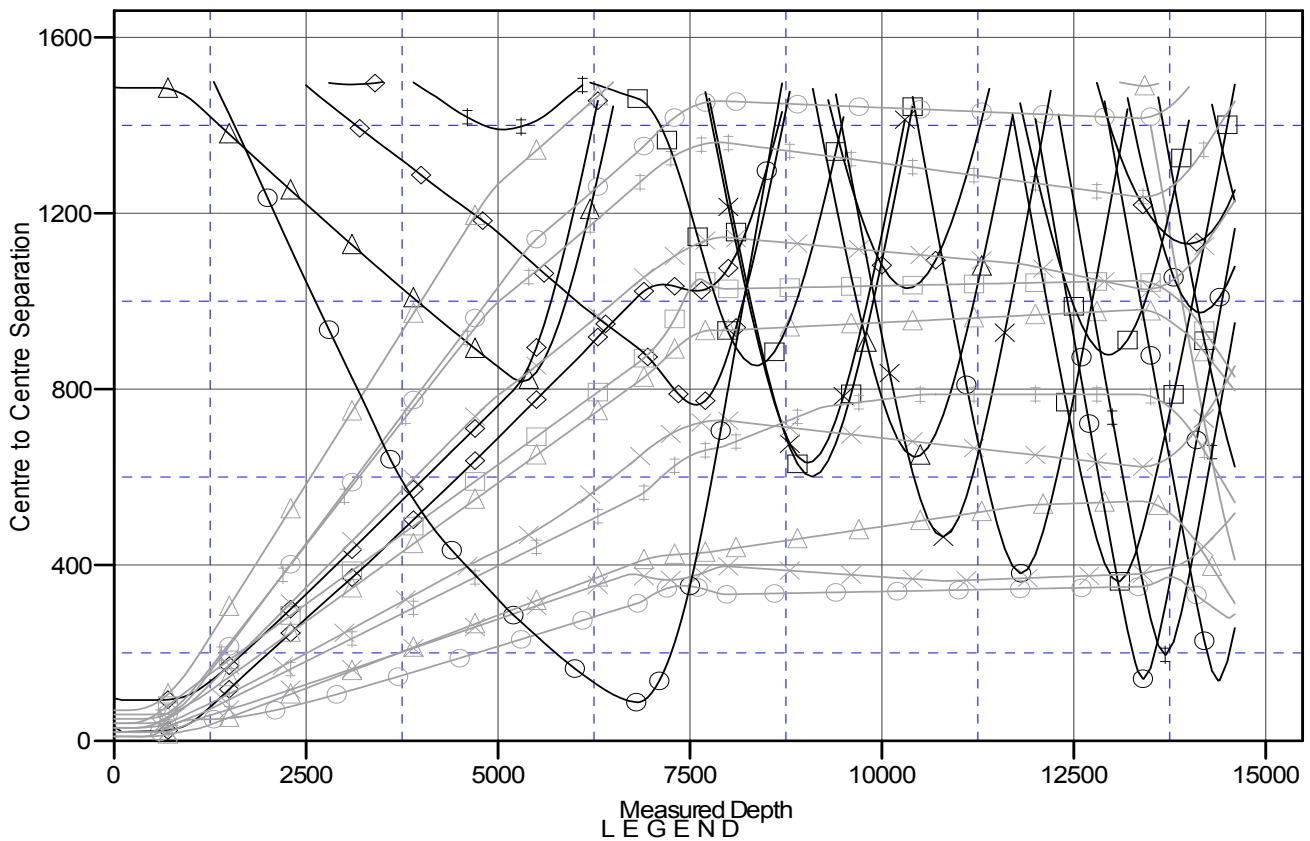
Company: Crestone Peak Resources
Project: DJ BASIN
Reference Site: S26-T2N-R68W
Site Error: 0.00usft
Reference Well: SULLIVAN 4E-26H-P268
Well Error: 0.00usft
Reference Wellbore: OH
Reference Design: PLAN #3

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

Ladder Plot



- | | | |
|-----------------------------------|--|--------------------------------------|
| Wellbore #1, PLAN #1 V0 | Grant Brothers 33-23C, EXTRACTION, NO SURVEYS V0 | SULLIVAN 4C-26H-P268, OH, PLAN #3 V0 |
| te 30-36, KMG WELL, SURVEYS V0 | Grant Brothers 34-23C, EXTRACTION, GYRO V0 | SULLIVAN 4D-26H-P268, OH, PLAN #2 V0 |
| 4-4-23, CPR WELL, SURVEYS V0 | Grant Brothers 44-23C, EXTRACTION, GYRO V0 | SULLIVAN 4F-26H-P268, OH, PLAN #3 V0 |
| os 23-2AE, EXTRACTION, SURVEYS V0 | Johnson 1, KPK, NO SURVEYS V0 | SULLIVAN 4G-26H-P268, OH, PLAN #2 V0 |
| os 23-43, EXTRACTION, SURVEYS V0 | Meredith 1, KPK WELL, NO SURVEYS V0 | SULLIVAN 4H-26H-P268, OH, PLAN #2 V0 |
| os 23-4AE, EXTRACTION, SURVEYS V0 | Sullivan 1, CPR, NO SURVEYS V0 | SULLIVAN 4I-26H-P268, OH, PLAN #2 V0 |
| os 23-54, EXTRACTION, SURVEYS V0 | Sullivan 33-26, CPR WELL, SURVEYS V0 | SULLIVAN 4J-26H-P268, OH, PLAN #2 V0 |
| os 31-26, CPR WELL, GYRO V0 | Sullivan 34-26, CPR WELL, SURVEYS V0 | SULLIVAN 4K-26H-P268, OH, PLAN #2 V0 |
| os 32-26, CPR, GYRO V0 | Sullivan 44-26, CPR WELL, GYRO V0 | SULLIVAN 4L-26H-P268, OH, PLAN #2 V0 |
| os 3-23, CPR WELL, SURVEYS V0 | Sullivan 4-6-26, CPR WELL, SURVEYS V0 | Sullivan 6-8-26, CPR, SURVEYS V0 |

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