



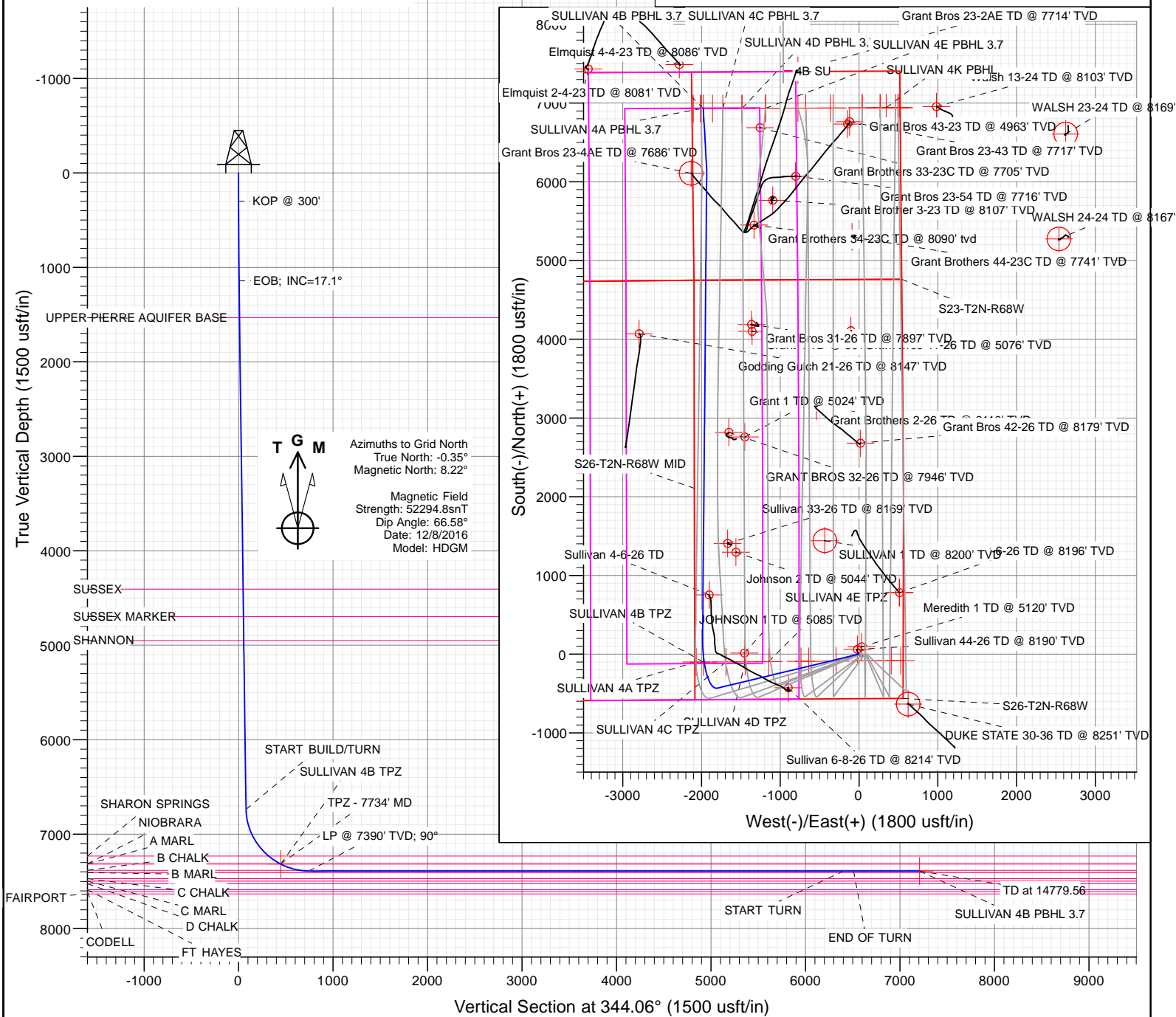
CRESTONE PEAK
RESOURCES

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSet	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	1155.17	17.10	256.50	1142.53	-29.58	-123.19	2.00	256.50	5.38	
4	7008.07	17.10	256.50	6736.58	-431.46	-1796.95	0.00	0.00	78.52	
5	8053.41	90.00	0.50	7390.00	205.22	-1986.49	9.00	103.41	742.78	
6	13953.41	90.00	0.50	7390.00	6105.00	-1935.00	0.00	0.00	6401.66	
7	14064.18	90.00	356.70	7390.00	6215.72	-1937.70	3.43	-90.00	6508.87	
8	14779.56	90.00	356.70	7390.00	6929.92	-1978.85	0.00	0.00	7206.92	SULLIVAN 4B PBHL 3.7

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

PLAN #4 SULLIVAN 4B-26H-P268 16300' LR 23 KB @ 4987.00usft Ground Level @ 4964.00 North American Datum 1983 Well SULLIVAN 4B-26H-P268, Grid North											
Type	Target	Azimuth		Origin	Type	N/S	E/W	From		TVD	
No Target (Freehand)		344.06		Slot	0.00		0.00		0.00		
Name	TPZ	TVD	+N/-S	+E/-W	Latitude	Longitude					
SULLIVAN 4B TPZ		7315.20	-100.41	-1977.94	40.103840	-104.970041					
SULLIVAN 4B PBHL 3.7		7390.00	6929.92	-1978.85	40.122896	-104.969894					
SULLIVAN 4B PBHL		7610.00	6929.70	-2016.04	40.122896	-104.970028					



CATHEDRAL

WELL DETAILS: SULLIVAN 4B-26H-P268

+N/-S	+E/-W	Northing	Ground Level: Easting	4964.00	Latitude	Longitude
0.00	0.00	1281128.12	3150221.44		40.103840	-104.962968



Cathedral Energy Services

Planning Report

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

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

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

Well	SULLIVAN 4B-26H-P268					
Well Position	+N/-S	0.00 usft	Northing:	1,281,128.12 usft	Latitude:	40.103840
	+E/-W	0.00 usft	Easting:	3,150,221.44 usft	Longitude:	-104.962968
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	12/8/2016	8.57	66.58	52,295

Design	PLAN #4			
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	344.06

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,155.17	17.10	256.50	1,142.53	-29.58	-123.19	2.00	2.00	0.00	256.50	
7,008.07	17.10	256.50	6,736.58	-431.46	-1,796.95	0.00	0.00	0.00	0.00	
8,053.41	90.00	0.50	7,390.00	205.22	-1,986.49	9.00	6.97	9.95	103.41	
13,953.41	90.00	0.50	7,390.00	6,105.00	-1,935.00	0.00	0.00	0.00	0.00	
14,064.18	90.00	356.70	7,390.00	6,215.72	-1,937.70	3.43	0.00	-3.43	-90.00	
14,779.56	90.00	356.70	7,390.00	6,929.92	-1,978.85	0.00	0.00	0.00	0.00	SULLIVAN 4B PBHL :

Cathedral Energy Services

Planning Report

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

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	KOP @ 300'
400.00	2.00	256.50	399.98	-0.41	-1.70	0.07	2.00	2.00	
500.00	4.00	256.50	499.84	-1.63	-6.79	0.30	2.00	2.00	
600.00	6.00	256.50	599.45	-3.66	-15.26	0.67	2.00	2.00	
700.00	8.00	256.50	698.70	-6.51	-27.11	1.18	2.00	2.00	
800.00	10.00	256.50	797.47	-10.16	-42.32	1.85	2.00	2.00	
900.00	12.00	256.50	895.62	-14.62	-60.87	2.66	2.00	2.00	
1,000.00	14.00	256.50	993.06	-19.87	-82.74	3.62	2.00	2.00	
1,100.00	16.00	256.50	1,089.64	-25.91	-107.91	4.72	2.00	2.00	
1,155.17	17.10	256.50	1,142.53	-29.58	-123.19	5.38	2.00	2.00	EOB; INC=17.1°
1,200.00	17.10	256.50	1,185.37	-32.66	-136.01	5.94	0.00	0.00	
1,300.00	17.10	256.50	1,280.95	-39.52	-164.61	7.19	0.00	0.00	
1,400.00	17.10	256.50	1,376.53	-46.39	-193.21	8.44	0.00	0.00	
1,500.00	17.10	256.50	1,472.11	-53.26	-221.80	9.69	0.00	0.00	
1,563.71	17.10	256.50	1,533.00	-57.63	-240.02	10.49	0.00	0.00	UPPER PIERRE AQUIFER BASE
1,600.00	17.10	256.50	1,567.68	-60.12	-250.40	10.94	0.00	0.00	
1,700.00	17.10	256.50	1,663.26	-66.99	-279.00	12.19	0.00	0.00	
1,800.00	17.10	256.50	1,758.84	-73.86	-307.59	13.44	0.00	0.00	
1,900.00	17.10	256.50	1,854.42	-80.72	-336.19	14.69	0.00	0.00	
2,000.00	17.10	256.50	1,949.99	-87.59	-364.79	15.94	0.00	0.00	
2,100.00	17.10	256.50	2,045.57	-94.45	-393.39	17.19	0.00	0.00	
2,200.00	17.10	256.50	2,141.15	-101.32	-421.98	18.44	0.00	0.00	
2,300.00	17.10	256.50	2,236.73	-108.19	-450.58	19.69	0.00	0.00	
2,400.00	17.10	256.50	2,332.30	-115.05	-479.18	20.94	0.00	0.00	
2,500.00	17.10	256.50	2,427.88	-121.92	-507.77	22.19	0.00	0.00	
2,600.00	17.10	256.50	2,523.46	-128.79	-536.37	23.44	0.00	0.00	
2,700.00	17.10	256.50	2,619.04	-135.65	-564.97	24.69	0.00	0.00	
2,800.00	17.10	256.50	2,714.61	-142.52	-593.56	25.94	0.00	0.00	
2,900.00	17.10	256.50	2,810.19	-149.39	-622.16	27.19	0.00	0.00	
3,000.00	17.10	256.50	2,905.77	-156.25	-650.76	28.44	0.00	0.00	
3,100.00	17.10	256.50	3,001.35	-163.12	-679.36	29.69	0.00	0.00	
3,200.00	17.10	256.50	3,096.92	-169.98	-707.95	30.94	0.00	0.00	
3,300.00	17.10	256.50	3,192.50	-176.85	-736.55	32.19	0.00	0.00	
3,400.00	17.10	256.50	3,288.08	-183.72	-765.15	33.44	0.00	0.00	
3,500.00	17.10	256.50	3,383.66	-190.58	-793.74	34.69	0.00	0.00	
3,600.00	17.10	256.50	3,479.23	-197.45	-822.34	35.93	0.00	0.00	
3,700.00	17.10	256.50	3,574.81	-204.32	-850.94	37.18	0.00	0.00	
3,800.00	17.10	256.50	3,670.39	-211.18	-879.54	38.43	0.00	0.00	
3,900.00	17.10	256.50	3,765.97	-218.05	-908.13	39.68	0.00	0.00	
4,000.00	17.10	256.50	3,861.54	-224.92	-936.73	40.93	0.00	0.00	
4,100.00	17.10	256.50	3,957.12	-231.78	-965.33	42.18	0.00	0.00	
4,200.00	17.10	256.50	4,052.70	-238.65	-993.92	43.43	0.00	0.00	
4,300.00	17.10	256.50	4,148.28	-245.51	-1,022.52	44.68	0.00	0.00	
4,400.00	17.10	256.50	4,243.85	-252.38	-1,051.12	45.93	0.00	0.00	
4,500.00	17.10	256.50	4,339.43	-259.25	-1,079.71	47.18	0.00	0.00	
4,569.65	17.10	256.50	4,406.00	-264.03	-1,099.63	48.05	0.00	0.00	SUSSEX
4,600.00	17.10	256.50	4,435.01	-266.11	-1,108.31	48.43	0.00	0.00	
4,700.00	17.10	256.50	4,530.59	-272.98	-1,136.91	49.68	0.00	0.00	
4,800.00	17.10	256.50	4,626.16	-279.85	-1,165.51	50.93	0.00	0.00	

Cathedral Energy Services

Planning Report

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

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
4,873.07	17.10	256.50	4,696.00	-284.86	-1,186.40	51.84	0.00	0.00	SUSSEX MARKER
4,900.00	17.10	256.50	4,721.74	-286.71	-1,194.10	52.18	0.00	0.00	
5,000.00	17.10	256.50	4,817.32	-293.58	-1,222.70	53.43	0.00	0.00	
5,100.00	17.10	256.50	4,912.90	-300.45	-1,251.30	54.68	0.00	0.00	
5,138.82	17.10	256.50	4,950.00	-303.11	-1,262.40	55.16	0.00	0.00	SHANNON
5,200.00	17.10	256.50	5,008.47	-307.31	-1,279.89	55.93	0.00	0.00	
5,300.00	17.10	256.50	5,104.05	-314.18	-1,308.49	57.18	0.00	0.00	
5,400.00	17.10	256.50	5,199.63	-321.04	-1,337.09	58.43	0.00	0.00	
5,500.00	17.10	256.50	5,295.21	-327.91	-1,365.69	59.68	0.00	0.00	
5,600.00	17.10	256.50	5,390.78	-334.78	-1,394.28	60.93	0.00	0.00	
5,700.00	17.10	256.50	5,486.36	-341.64	-1,422.88	62.18	0.00	0.00	
5,800.00	17.10	256.50	5,581.94	-348.51	-1,451.48	63.43	0.00	0.00	
5,900.00	17.10	256.50	5,677.52	-355.38	-1,480.07	64.68	0.00	0.00	
6,000.00	17.10	256.50	5,773.09	-362.24	-1,508.67	65.93	0.00	0.00	
6,100.00	17.10	256.50	5,868.67	-369.11	-1,537.27	67.18	0.00	0.00	
6,200.00	17.10	256.50	5,964.25	-375.97	-1,565.86	68.43	0.00	0.00	
6,300.00	17.10	256.50	6,059.83	-382.84	-1,594.46	69.68	0.00	0.00	
6,400.00	17.10	256.50	6,155.40	-389.71	-1,623.06	70.93	0.00	0.00	
6,500.00	17.10	256.50	6,250.98	-396.57	-1,651.66	72.17	0.00	0.00	
6,600.00	17.10	256.50	6,346.56	-403.44	-1,680.25	73.42	0.00	0.00	
6,700.00	17.10	256.50	6,442.14	-410.31	-1,708.85	74.67	0.00	0.00	
6,800.00	17.10	256.50	6,537.71	-417.17	-1,737.45	75.92	0.00	0.00	
6,900.00	17.10	256.50	6,633.29	-424.04	-1,766.04	77.17	0.00	0.00	
7,000.00	17.10	256.50	6,728.87	-430.91	-1,794.64	78.42	0.00	0.00	
7,008.07	17.10	256.50	6,736.58	-431.46	-1,796.95	78.52	0.00	0.00	START BUILD/TURN
7,100.00	17.13	284.87	6,824.59	-431.14	-1,823.22	86.05	9.00	0.03	
7,200.00	21.11	309.83	6,919.22	-415.79	-1,851.34	108.52	9.00	3.98	
7,300.00	27.47	325.46	7,010.41	-385.20	-1,878.30	145.35	9.00	6.37	
7,400.00	34.95	335.21	7,095.93	-340.10	-1,903.44	195.61	9.00	7.47	
7,500.00	42.95	341.79	7,173.67	-281.62	-1,926.14	258.08	9.00	8.00	
7,583.14	49.82	345.90	7,231.00	-223.82	-1,942.76	318.22	9.00	8.26	SHARON SPRINGS
7,600.00	51.23	346.63	7,241.72	-211.18	-1,945.85	331.22	9.00	8.36	
7,700.00	59.67	350.44	7,298.40	-130.53	-1,962.07	413.22	9.00	8.44	
7,730.07	62.22	351.45	7,313.00	-104.57	-1,966.20	439.32	9.00	8.50	NIOBRARA
7,734.82	62.63	351.61	7,315.20	-100.41	-1,966.82	443.49	9.00	8.52	TPZ - 7734' MD
7,738.77	62.96	351.74	7,317.00	-96.94	-1,967.33	446.97	9.00	8.52	A MARL
7,800.00	68.20	353.64	7,342.31	-41.66	-1,974.40	502.07	9.00	8.54	
7,900.00	76.78	356.48	7,372.37	53.26	-1,982.55	595.57	9.00	8.58	
7,956.87	81.68	358.00	7,383.00	109.04	-1,985.24	649.95	9.00	8.61	B CHALK
8,000.00	85.39	359.12	7,387.85	151.88	-1,986.31	691.43	9.00	8.62	
8,053.41	90.00	0.50	7,390.00	205.22	-1,986.49	742.78	9.00	8.62	LP @ 7390' TVD; 90°
8,100.00	90.00	0.50	7,390.00	251.82	-1,986.08	787.47	0.00	0.00	
8,200.00	90.00	0.50	7,390.00	351.81	-1,985.21	883.38	0.00	0.00	
8,300.00	90.00	0.50	7,390.00	451.81	-1,984.33	979.30	0.00	0.00	
8,400.00	90.00	0.50	7,390.00	551.80	-1,983.46	1,075.21	0.00	0.00	
8,500.00	90.00	0.50	7,390.00	651.80	-1,982.59	1,171.12	0.00	0.00	
8,600.00	90.00	0.50	7,390.00	751.80	-1,981.72	1,267.03	0.00	0.00	
8,700.00	90.00	0.50	7,390.00	851.79	-1,980.84	1,362.95	0.00	0.00	
8,800.00	90.00	0.50	7,390.00	951.79	-1,979.97	1,458.86	0.00	0.00	
8,900.00	90.00	0.50	7,390.00	1,051.79	-1,979.10	1,554.77	0.00	0.00	
9,000.00	90.00	0.50	7,390.00	1,151.78	-1,978.23	1,650.69	0.00	0.00	
9,100.00	90.00	0.50	7,390.00	1,251.78	-1,977.35	1,746.60	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
9,200.00	90.00	0.50	7,390.00	1,351.77	-1,976.48	1,842.51	0.00	0.00	
9,300.00	90.00	0.50	7,390.00	1,451.77	-1,975.61	1,938.43	0.00	0.00	
9,400.00	90.00	0.50	7,390.00	1,551.77	-1,974.74	2,034.34	0.00	0.00	
9,500.00	90.00	0.50	7,390.00	1,651.76	-1,973.86	2,130.25	0.00	0.00	
9,600.00	90.00	0.50	7,390.00	1,751.76	-1,972.99	2,226.17	0.00	0.00	
9,700.00	90.00	0.50	7,390.00	1,851.75	-1,972.12	2,322.08	0.00	0.00	
9,800.00	90.00	0.50	7,390.00	1,951.75	-1,971.24	2,417.99	0.00	0.00	
9,900.00	90.00	0.50	7,390.00	2,051.75	-1,970.37	2,513.91	0.00	0.00	
10,000.00	90.00	0.50	7,390.00	2,151.74	-1,969.50	2,609.82	0.00	0.00	
10,100.00	90.00	0.50	7,390.00	2,251.74	-1,968.63	2,705.73	0.00	0.00	
10,200.00	90.00	0.50	7,390.00	2,351.74	-1,967.75	2,801.65	0.00	0.00	
10,300.00	90.00	0.50	7,390.00	2,451.73	-1,966.88	2,897.56	0.00	0.00	
10,400.00	90.00	0.50	7,390.00	2,551.73	-1,966.01	2,993.47	0.00	0.00	
10,500.00	90.00	0.50	7,390.00	2,651.72	-1,965.14	3,089.39	0.00	0.00	
10,600.00	90.00	0.50	7,390.00	2,751.72	-1,964.26	3,185.30	0.00	0.00	
10,700.00	90.00	0.50	7,390.00	2,851.72	-1,963.39	3,281.21	0.00	0.00	
10,800.00	90.00	0.50	7,390.00	2,951.71	-1,962.52	3,377.13	0.00	0.00	
10,900.00	90.00	0.50	7,390.00	3,051.71	-1,961.65	3,473.04	0.00	0.00	
11,000.00	90.00	0.50	7,390.00	3,151.71	-1,960.77	3,568.95	0.00	0.00	
11,100.00	90.00	0.50	7,390.00	3,251.70	-1,959.90	3,664.87	0.00	0.00	
11,200.00	90.00	0.50	7,390.00	3,351.70	-1,959.03	3,760.78	0.00	0.00	
11,300.00	90.00	0.50	7,390.00	3,451.69	-1,958.16	3,856.69	0.00	0.00	
11,400.00	90.00	0.50	7,390.00	3,551.69	-1,957.28	3,952.61	0.00	0.00	
11,500.00	90.00	0.50	7,390.00	3,651.69	-1,956.41	4,048.52	0.00	0.00	
11,600.00	90.00	0.50	7,390.00	3,751.68	-1,955.54	4,144.43	0.00	0.00	
11,700.00	90.00	0.50	7,390.00	3,851.68	-1,954.66	4,240.35	0.00	0.00	
11,800.00	90.00	0.50	7,390.00	3,951.67	-1,953.79	4,336.26	0.00	0.00	
11,900.00	90.00	0.50	7,390.00	4,051.67	-1,952.92	4,432.17	0.00	0.00	
12,000.00	90.00	0.50	7,390.00	4,151.67	-1,952.05	4,528.09	0.00	0.00	
12,100.00	90.00	0.50	7,390.00	4,251.66	-1,951.17	4,624.00	0.00	0.00	
12,200.00	90.00	0.50	7,390.00	4,351.66	-1,950.30	4,719.91	0.00	0.00	
12,300.00	90.00	0.50	7,390.00	4,451.66	-1,949.43	4,815.82	0.00	0.00	
12,400.00	90.00	0.50	7,390.00	4,551.65	-1,948.56	4,911.74	0.00	0.00	
12,500.00	90.00	0.50	7,390.00	4,651.65	-1,947.68	5,007.65	0.00	0.00	
12,600.00	90.00	0.50	7,390.00	4,751.64	-1,946.81	5,103.56	0.00	0.00	
12,700.00	90.00	0.50	7,390.00	4,851.64	-1,945.94	5,199.48	0.00	0.00	
12,800.00	90.00	0.50	7,390.00	4,951.64	-1,945.07	5,295.39	0.00	0.00	
12,900.00	90.00	0.50	7,390.00	5,051.63	-1,944.19	5,391.30	0.00	0.00	
13,000.00	90.00	0.50	7,390.00	5,151.63	-1,943.32	5,487.22	0.00	0.00	
13,100.00	90.00	0.50	7,390.00	5,251.63	-1,942.45	5,583.13	0.00	0.00	
13,200.00	90.00	0.50	7,390.00	5,351.62	-1,941.57	5,679.04	0.00	0.00	
13,300.00	90.00	0.50	7,390.00	5,451.62	-1,940.70	5,774.96	0.00	0.00	
13,400.00	90.00	0.50	7,390.00	5,551.61	-1,939.83	5,870.87	0.00	0.00	
13,500.00	90.00	0.50	7,390.00	5,651.61	-1,938.96	5,966.78	0.00	0.00	
13,600.00	90.00	0.50	7,390.00	5,751.61	-1,938.08	6,062.70	0.00	0.00	
13,700.00	90.00	0.50	7,390.00	5,851.60	-1,937.21	6,158.61	0.00	0.00	
13,800.00	90.00	0.50	7,390.00	5,951.60	-1,936.34	6,254.52	0.00	0.00	
13,900.00	90.00	0.50	7,390.00	6,051.59	-1,935.47	6,350.44	0.00	0.00	
13,953.41	90.00	0.50	7,390.00	6,105.00	-1,935.00	6,401.66	0.00	0.00	START TURN
14,000.00	90.00	358.90	7,390.00	6,151.59	-1,935.24	6,446.53	3.43	0.00	
14,064.18	90.00	356.70	7,390.00	6,215.72	-1,937.70	6,508.87	3.43	0.00	END OF TURN
14,100.00	90.00	356.70	7,390.00	6,251.48	-1,939.76	6,543.82	0.00	0.00	

Cathedral Energy Services

Planning Report

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

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
14,200.00	90.00	356.70	7,390.00	6,351.31	-1,945.52	6,641.40	0.00	0.00	
14,300.00	90.00	356.70	7,390.00	6,451.15	-1,951.27	6,738.97	0.00	0.00	
14,400.00	90.00	356.70	7,390.00	6,550.98	-1,957.02	6,836.55	0.00	0.00	
14,500.00	90.00	356.70	7,390.00	6,650.82	-1,962.77	6,934.13	0.00	0.00	
14,600.00	90.00	356.70	7,390.00	6,750.65	-1,968.52	7,031.70	0.00	0.00	
14,700.00	90.00	356.70	7,390.00	6,850.49	-1,974.28	7,129.28	0.00	0.00	
14,779.56	90.00	356.70	7,390.00	6,929.92	-1,978.85	7,206.92	0.00	0.00	TD at 14779.56

Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SULLIVAN 4B PBHL 3.7	- plan hits target center	0.00	0.00	7,390.00	6,929.92	-1,978.85	1,288,058.03	3,148,242.59	40.122896	-104.969894
	- Point									
SULLIVAN 4B TPZ	- plan misses target center by 11.03usft at 7736.26usft MD (7315.86 TVD, -99.15 N, -1967.01 E)	0.00	0.00	7,315.20	-100.41	-1,977.94	1,281,027.71	3,148,243.50	40.103597	-104.970041
	- Point									
SULLIVAN 4B PBHL	- plan misses target center by 223.12usft at 14779.56usft MD (7390.00 TVD, 6929.92 N, -1978.85 E)	0.00	0.00	7,610.00	6,929.70	-2,016.04	1,288,057.82	3,148,205.40	40.122896	-104.970027
	- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,563.71	1,533.00	UPPER PIERRE AQUIFER BASE				
4,569.65	4,406.00	SUSSEX				
4,873.07	4,696.00	SUSSEX MARKER				
5,138.82	4,950.00	SHANNON				
7,583.14	7,231.00	SHARON SPRINGS				
7,730.07	7,313.00	NIOBRARA				
7,738.77	7,317.00	A MARL				
7,956.87	7,383.00	B CHALK				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
300.00	300.00	0.00	0.00	KOP @ 300'	
1,155.17	1,142.53	-29.58	-123.19	EOB; INC=17.1°	
7,008.07	6,736.58	-431.46	-1,796.95	START BUILD/TURN	
7,734.82	7,315.20	-100.41	-1,966.82	TPZ - 7734' MD	
8,053.41	7,390.00	205.22	-1,986.49	LP @ 7390' TVD; 90°	
13,953.41	7,390.00	6,105.00	-1,935.00	START TURN	
14,064.18	7,390.00	6,215.72	-1,937.70	END OF TURN	
14,779.56	7,390.00	6,929.92	-1,978.85	TD at 14779.56	

Crestone Peak Resources

DJ BASIN

S26-T2N-R68W

SULLIVAN 4B-26H-P268

OH

PLAN #4

Anticollision Report

22 March, 2017

Cathedral Energy Services

Anticollision Report

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

Reference	PLAN #4		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,500.00usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	3/22/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,779.56	PLAN #4 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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	14,779.56	12,639.47	1,068.16	867.78	5.331	CC, ES, SF
Duke State 30-36 - KMG WELL - SURVEYS						Out of range
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	14,779.56	7,515.91	634.89	551.55	7.618	CC, ES, SF
Godding Gulch 21-26 - CPR WELL - SURVEYS	11,902.98	7,605.67	837.24	735.92	8.263	CC, ES
Godding Gulch 21-26 - CPR WELL - SURVEYS	12,000.00	7,606.41	842.84	738.51	8.078	SF
Grant 1 - KPK WELL - NO SURVEYS						Out of range
Grant 4 - KPK WELL - NO SURVEYS						Out of range
Grant Bros 23-2AE - EXTRACTION - SURVEYS	14,779.56	7,709.32	1,283.03	1,133.06	8.555	CC, ES, SF
Grant Bros 23-43 - EXTRACTION - SURVEYS						Out of range
Grant Bros 23-4AE - EXTRACTION - SURVEYS	13,955.96	7,447.09	193.90	70.48	1.571	CC
Grant Bros 23-4AE - EXTRACTION - SURVEYS	14,000.00	7,447.34	198.27	70.39	1.550	ES, SF
Grant Bros 23-54 - EXTRACTION - SURVEYS	13,930.80	7,436.93	1,151.21	1,028.89	9.412	CC, ES
Grant Bros 23-54 - EXTRACTION - SURVEYS	13,953.41	7,437.02	1,151.43	1,029.09	9.412	SF
Grant Bros 31-26 - CPR WELL - GYRO	12,000.00	7,330.57	582.63	495.25	6.667	SF
Grant Bros 31-26 - CPR WELL - GYRO	12,035.55	7,330.68	581.55	494.77	6.701	CC, ES
Grant Bros 32-26 - CPR - GYRO	10,600.00	7,330.47	308.63	239.25	4.448	SF
Grant Bros 32-26 - CPR - GYRO	10,657.30	7,331.53	303.27	235.87	4.500	CC, ES
Grant Bros 3-23 - CPR WELL - SURVEYS	13,600.00	7,331.26	834.59	730.49	8.018	SF
Grant Bros 3-23 - CPR WELL - SURVEYS	13,628.53	7,330.75	834.10	730.26	8.032	CC, ES
Grant Bros 41-26 - SUNDANCE WELL - NO SURVEYS						Out of range
Grant Bros 42-26 - CPR WELL - SURVEYS						Out of range
Grant Bros 43-23 - SUNDANCE WELL - NO SURVEYS						Out of range
Grant Brothers 2-26 - CPR - NO SURVEYS	11,009.90	7,347.99	1,418.36	1,345.97	19.595	CC, ES, SF
Grant Brothers 33-23C - EXTRACTION - NO SURVEYS	14,495.79	7,313.99	706.13	581.26	5.655	CC, ES, SF
Grant Brothers 34-23C - EXTRACTION - GYRO	13,300.00	7,337.28	612.25	507.44	5.841	ES, SF
Grant Brothers 34-23C - EXTRACTION - GYRO	13,300.81	7,337.29	612.25	507.45	5.842	CC
Grant Brothers 44-23C - EXTRACTION - GYRO						Out of range
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	5,349.08	5,085.00	356.64	318.14	9.264	CC, ES, SF
Johnson 2 - KPK WELL - NO SURVEYS						Out of range
Meredith 1 - KPK WELL - NO SURVEYS	300.00	271.99	98.29	96.96	73.911	CC, ES
Meredith 1 - KPK WELL - NO SURVEYS	900.00	867.61	141.95	137.39	31.159	SF
Puritan 6-4-34 - CPR WELL - SURVEYS						Out of range
Sullivan 1 - CPR - NO SURVEYS						Out of range
Sullivan 33-26 - CPR WELL - SURVEYS	9,200.00	7,340.96	311.53	264.53	6.628	SF
Sullivan 33-26 - CPR WELL - SURVEYS	9,260.89	7,340.56	305.53	260.03	6.716	CC, ES
Sullivan 44-26 - CPR WELL - GYRO	100.00	73.77	45.78	45.51	169.478	CC

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

Cathedral Energy Services

Anticollision Report

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

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
S26-T2N-R68W						
Sullivan 44-26 - CPR WELL - GYRO	300.00	273.87	46.61	45.27	34.933	ES
Sullivan 44-26 - CPR WELL - GYRO	600.00	573.19	60.76	57.85	20.829	SF
Sullivan 4-6-26 - CPR WELL - SURVEYS	8,590.64	7,429.11	78.96	28.10	1.552	CC, ES, SF
SULLIVAN 4A-26H-P268 - OH - PLAN #4	200.00	200.00	10.07	9.08	10.142	CC, ES
SULLIVAN 4A-26H-P268 - OH - PLAN #4	7,008.07	6,999.85	114.18	40.10	1.541	SF
SULLIVAN 4C-26H-P268 - OH - PLAN #3	300.00	300.00	10.07	8.36	5.889	CC, ES
SULLIVAN 4C-26H-P268 - OH - PLAN #3	14,000.00	14,118.31	212.74	12.06	1.060	Level 2, SF
SULLIVAN 4D-26H-P268 - OH - PLAN #2	300.00	300.00	19.86	18.15	11.615	CC, ES
SULLIVAN 4D-26H-P268 - OH - PLAN #2	14,779.56	14,749.80	493.02	260.78	2.123	SF
SULLIVAN 4E-26H-P268 - OH - PLAN #2	300.00	300.00	29.93	28.22	17.504	CC, ES
SULLIVAN 4E-26H-P268 - OH - PLAN #2	13,900.00	13,700.00	663.21	461.28	3.284	SF
SULLIVAN 4F-26H-P268 - OH - PLAN #2	338.63	339.18	39.24	37.27	19.923	CC
SULLIVAN 4F-26H-P268 - OH - PLAN #2	400.00	401.16	39.49	37.08	16.387	ES
SULLIVAN 4F-26H-P268 - OH - PLAN #2	14,715.76	14,859.12	1,221.33	989.10	5.259	SF
SULLIVAN 4G-26H-P268 - OH - PLAN #2	300.00	300.00	50.07	48.36	29.284	CC, ES
SULLIVAN 4G-26H-P268 - OH - PLAN #2	14,779.56	14,625.12	1,302.88	1,069.92	5.593	SF
SULLIVAN 4H-26H-P268 - OH - PLAN #2	116.33	117.33	59.86	59.47	150.906	CC
SULLIVAN 4H-26H-P268 - OH - PLAN #2	300.00	300.96	59.89	58.19	35.265	ES
SULLIVAN 4H-26H-P268 - OH - PLAN #2	900.00	903.35	100.28	94.08	16.180	SF
SULLIVAN 4I-26H-P268 - OH - PLAN #2	300.00	300.00	69.93	68.22	40.899	CC, ES
SULLIVAN 4I-26H-P268 - OH - PLAN #2	700.00	697.14	99.73	95.19	21.953	SF
SULLIVAN 4J-26H-P268 - OH - PLAN #2	300.00	300.00	80.00	78.29	46.788	CC, ES
SULLIVAN 4J-26H-P268 - OH - PLAN #2	700.00	692.75	115.98	111.43	25.535	SF
SULLIVAN 4K-26H-P268 - OH - PLAN #2	300.00	300.00	90.07	88.36	52.677	CC, ES
SULLIVAN 4K-26H-P268 - OH - PLAN #2	800.00	793.49	135.66	130.43	25.902	SF
SULLIVAN 4L-26H-P268 - OH - PLAN #2	200.00	200.00	99.87	98.87	100.573	CC, ES
SULLIVAN 4L-26H-P268 - OH - PLAN #2	700.00	680.64	158.66	153.98	33.874	SF
Sullivan 6-8-26 - CPR - SURVEYS	4,031.69	3,961.98	204.03	166.63	5.455	CC, ES, SF
Sullivan 8-6-26 - CPR WELL - SURVEYS						Out of range
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 4B-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 4B-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 #4	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		
14,000.00	7,390.00	12,639.47	7,272.00	105.65	87.87	87.93	7,256.13	-962.35	1,472.35	1,323.69	148.65	9.905		
14,064.18	7,390.00	12,639.47	7,272.00	106.63	87.87	88.01	7,256.13	-962.35	1,426.55	1,273.86	152.69	9.343		
14,100.00	7,390.00	12,639.47	7,272.00	107.18	87.87	88.01	7,256.13	-962.35	1,402.12	1,247.06	155.06	9.043		
14,200.00	7,390.00	12,639.47	7,272.00	108.73	87.87	88.01	7,256.13	-962.35	1,336.63	1,174.75	161.89	8.257		
14,300.00	7,390.00	12,639.47	7,272.00	110.28	87.87	88.01	7,256.13	-962.35	1,275.63	1,106.67	168.96	7.550		
14,400.00	7,390.00	12,639.47	7,272.00	111.83	87.87	88.01	7,256.13	-962.35	1,219.79	1,043.63	176.15	6.925		
14,500.00	7,390.00	12,639.47	7,272.00	113.38	87.87	88.01	7,256.13	-962.35	1,169.84	986.58	183.26	6.383		
14,600.00	7,390.00	12,639.47	7,272.00	114.94	87.87	88.01	7,256.13	-962.35	1,126.58	936.54	190.04	5.928		
14,700.00	7,390.00	12,639.47	7,272.00	116.49	87.87	88.01	7,256.13	-962.35	1,090.79	894.61	196.18	5.560		
14,779.56	7,390.00	12,639.47	7,272.00	117.73	87.87	88.01	7,256.13	-962.35	1,068.16	867.78	200.38	5.331	CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
13,900.00	7,390.00	7,513.28	7,329.28	104.17	50.14	-89.23	7,489.00	-2,279.69	1,478.05	1,403.20	74.86	19.745		
13,953.41	7,390.00	7,513.44	7,329.43	104.96	50.14	-89.25	7,489.00	-2,279.69	1,426.28	1,351.51	74.77	19.075		
14,000.00	7,390.00	7,513.57	7,329.57	105.65	50.14	-89.19	7,489.00	-2,279.69	1,381.06	1,306.33	74.73	18.482		
14,064.18	7,390.00	7,513.76	7,329.76	106.63	50.14	-89.07	7,489.00	-2,279.69	1,318.41	1,243.71	74.70	17.649		
14,100.00	7,390.00	7,513.87	7,329.86	107.18	50.14	-89.10	7,489.00	-2,279.69	1,283.36	1,208.66	74.71	17.179		
14,200.00	7,390.00	7,514.17	7,330.17	108.73	50.14	-89.16	7,489.00	-2,279.69	1,185.76	1,110.96	74.80	15.853		
14,300.00	7,390.00	7,514.47	7,330.47	110.28	50.14	-89.23	7,489.00	-2,279.69	1,088.58	1,013.53	75.05	14.505		
14,400.00	7,390.00	7,514.77	7,330.77	111.83	50.14	-89.29	7,489.00	-2,279.69	991.97	916.41	75.56	13.128		
14,500.00	7,390.00	7,515.07	7,331.07	113.38	50.14	-89.35	7,489.00	-2,279.70	896.10	819.64	76.46	11.720		
14,600.00	7,390.00	7,515.37	7,331.37	114.94	50.14	-89.42	7,489.00	-2,279.70	801.25	723.28	77.96	10.277		
14,700.00	7,390.00	7,515.67	7,331.67	116.49	50.14	-89.48	7,489.00	-2,279.70	707.81	627.41	80.40	8.803		
14,779.56	7,390.00	7,515.91	7,331.90	117.73	50.14	-89.53	7,489.01	-2,279.70	634.89	551.55	83.34	7.618 CC, ES, SF		

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - Godding Gulch 21-26 - CPR WELL - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 703-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		
10,700.00	7,390.00	7,596.82	7,343.00	60.09	29.22	-89.04	4,061.89	-2,790.03	1,465.63	1,406.37	59.25	24.736		
10,800.00	7,390.00	7,597.54	7,343.72	61.30	29.22	-89.09	4,061.90	-2,790.04	1,384.73	1,324.37	60.35	22.943		
10,900.00	7,390.00	7,598.26	7,344.44	62.54	29.22	-89.14	4,061.90	-2,790.04	1,306.48	1,244.63	61.85	21.125		
11,000.00	7,390.00	7,598.99	7,345.17	63.78	29.22	-89.19	4,061.91	-2,790.05	1,231.38	1,167.58	63.80	19.300		
11,100.00	7,390.00	7,599.71	7,345.89	65.05	29.23	-89.24	4,061.91	-2,790.05	1,160.05	1,093.75	66.30	17.497		
11,200.00	7,390.00	7,600.44	7,346.62	66.33	29.23	-89.29	4,061.92	-2,790.05	1,093.22	1,023.82	69.40	15.752		
11,300.00	7,390.00	7,601.18	7,347.36	67.62	29.23	-89.34	4,061.93	-2,790.06	1,031.77	958.64	73.13	14.110		
11,400.00	7,390.00	7,601.92	7,348.10	68.93	29.23	-89.39	4,061.93	-2,790.06	976.70	899.26	77.44	12.612		
11,500.00	7,390.00	7,602.66	7,348.84	70.25	29.23	-89.44	4,061.94	-2,790.07	929.17	846.92	82.25	11.297		
11,600.00	7,390.00	7,603.40	7,349.58	71.58	29.23	-89.49	4,061.94	-2,790.07	890.37	803.04	87.34	10.195		
11,700.00	7,390.00	7,604.15	7,350.33	72.92	29.23	-89.54	4,061.95	-2,790.08	861.49	769.07	92.42	9.321		
11,800.00	7,390.00	7,604.90	7,351.08	74.27	29.23	-89.59	4,061.95	-2,790.08	843.55	746.40	97.15	8.683		
11,900.00	7,390.00	7,605.65	7,351.83	75.63	29.23	-89.65	4,061.96	-2,790.09	837.25	736.04	101.21	8.272		
11,902.98	7,390.00	7,605.67	7,351.85	75.67	29.23	-89.65	4,061.96	-2,790.09	837.24	735.92	101.32	8.263 CC, ES		
12,000.00	7,390.00	7,606.41	7,352.59	77.00	29.23	-89.70	4,061.96	-2,790.09	842.84	738.51	104.33	8.078 SF		
12,100.00	7,390.00	7,607.17	7,353.35	78.38	29.23	-89.75	4,061.97	-2,790.10	860.11	753.74	106.37	8.086		
12,200.00	7,390.00	7,607.93	7,354.11	79.76	29.23	-89.80	4,061.98	-2,790.10	888.36	781.01	107.35	8.275		
12,300.00	7,390.00	7,608.70	7,354.88	81.15	29.23	-89.85	4,061.98	-2,790.10	926.60	819.18	107.42	8.626		
12,400.00	7,390.00	7,609.47	7,355.65	82.55	29.24	-89.91	4,061.99	-2,790.11	973.65	866.86	106.79	9.118		
12,500.00	7,390.00	7,610.24	7,356.42	83.96	29.24	-89.96	4,061.99	-2,790.11	1,028.29	922.63	105.66	9.732		
12,600.00	7,390.00	7,611.02	7,357.20	85.37	29.24	-90.01	4,062.00	-2,790.12	1,089.39	985.16	104.23	10.452		
12,700.00	7,390.00	7,611.80	7,357.98	86.79	29.24	-90.07	4,062.01	-2,790.12	1,155.93	1,053.30	102.63	11.263		
12,800.00	7,390.00	7,612.58	7,358.76	88.21	29.24	-90.12	4,062.01	-2,790.13	1,227.02	1,126.03	100.98	12.151		
12,900.00	7,390.00	7,613.37	7,359.55	89.64	29.24	-90.17	4,062.02	-2,790.13	1,301.91	1,202.56	99.34	13.105		
13,000.00	7,390.00	7,614.16	7,360.34	91.08	29.24	-90.23	4,062.02	-2,790.14	1,379.98	1,282.23	97.76	14.116		
13,100.00	7,390.00	7,614.96	7,361.14	92.52	29.24	-90.28	4,062.03	-2,790.14	1,460.73	1,364.48	96.25	15.176		

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - Grant Bros 23-2AE - EXTRACTION - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 118-ISCWSA MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
14,400.00	7,390.00	7,710.61	7,311.69	111.83	41.06	88.76	7,414.45	-791.12	1,451.06	1,318.81	132.25	10.972	
14,500.00	7,390.00	7,710.27	7,311.35	113.38	41.06	88.74	7,414.45	-791.13	1,398.78	1,261.71	137.07	10.205	
14,600.00	7,390.00	7,709.93	7,311.01	114.94	41.06	88.73	7,414.45	-791.14	1,351.89	1,210.03	141.86	9.530	
14,700.00	7,390.00	7,709.59	7,310.67	116.49	41.06	88.71	7,414.45	-791.15	1,310.95	1,164.46	146.49	8.949	
14,779.56	7,390.00	7,709.32	7,310.40	117.73	41.06	88.70	7,414.45	-791.15	1,283.03	1,133.06	149.97	8.555 CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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
12,500.00	7,390.00	7,439.45	7,327.70	83.96	23.51	-86.96	6,108.91	-2,128.75	1,468.51	1,410.22	58.29	25.194	
12,600.00	7,390.00	7,439.96	7,328.20	85.37	23.51	-87.11	6,108.92	-2,128.76	1,369.45	1,311.51	57.94	23.636	
12,700.00	7,390.00	7,440.47	7,328.71	86.79	23.51	-87.26	6,108.92	-2,128.76	1,270.54	1,212.98	57.56	22.073	
12,800.00	7,390.00	7,440.98	7,329.23	88.21	23.51	-87.41	6,108.92	-2,128.77	1,171.81	1,114.66	57.15	20.505	
12,900.00	7,390.00	7,441.50	7,329.74	89.64	23.51	-87.56	6,108.92	-2,128.78	1,073.31	1,016.61	56.71	18.927	
13,000.00	7,390.00	7,442.02	7,330.26	91.08	23.51	-87.71	6,108.93	-2,128.79	975.13	918.88	56.25	17.335	
13,100.00	7,390.00	7,442.54	7,330.78	92.52	23.51	-87.87	6,108.93	-2,128.79	877.35	821.54	55.81	15.721	
13,200.00	7,390.00	7,443.06	7,331.30	93.96	23.51	-88.02	6,108.93	-2,128.80	780.14	724.70	55.44	14.071	
13,300.00	7,390.00	7,443.58	7,331.83	95.41	23.51	-88.18	6,108.94	-2,128.81	683.73	628.45	55.28	12.368	
13,400.00	7,390.00	7,444.11	7,332.35	96.86	23.52	-88.33	6,108.94	-2,128.81	588.52	532.91	55.61	10.583	
13,500.00	7,390.00	7,444.64	7,332.88	98.31	23.52	-88.49	6,108.94	-2,128.82	495.20	438.18	57.02	8.684	
13,600.00	7,390.00	7,445.17	7,333.42	99.77	23.52	-88.65	6,108.94	-2,128.83	405.09	344.33	60.76	6.667	
13,700.00	7,390.00	7,445.71	7,333.95	101.24	23.52	-88.80	6,108.95	-2,128.84	320.88	251.71	69.17	4.639	
13,800.00	7,390.00	7,446.25	7,334.49	102.70	23.52	-88.96	6,108.95	-2,128.84	248.66	162.65	86.00	2.891	
13,900.00	7,390.00	7,446.79	7,335.03	104.17	23.52	-89.12	6,108.95	-2,128.85	201.73	90.31	111.43	1.810	
13,953.41	7,390.00	7,447.08	7,335.32	104.96	23.52	-89.21	6,108.95	-2,128.86	193.91	70.91	123.01	1.576	
13,955.96	7,390.00	7,447.09	7,335.33	105.00	23.52	-89.21	6,108.95	-2,128.86	193.90	70.48	123.42	1.571 CC	
14,000.00	7,390.00	7,447.34	7,335.58	105.65	23.52	-89.29	6,108.96	-2,128.86	198.27	70.39	127.88	1.550 ES, SF	
14,064.18	7,390.00	7,447.73	7,335.97	106.63	23.52	-89.41	6,108.96	-2,128.86	218.97	92.81	126.16	1.736	
14,100.00	7,390.00	7,447.96	7,336.20	107.18	23.52	-89.48	6,108.96	-2,128.87	236.80	114.38	122.42	1.934	
14,200.00	7,390.00	7,448.60	7,336.84	108.73	23.52	-89.66	6,108.96	-2,128.88	303.90	194.31	109.60	2.773	
14,300.00	7,390.00	7,449.24	7,337.48	110.28	23.52	-89.85	6,108.97	-2,128.89	385.54	286.60	98.93	3.897	
14,400.00	7,390.00	7,449.89	7,338.13	111.83	23.52	-90.04	6,108.97	-2,128.89	474.25	382.92	91.34	5.192	
14,500.00	7,390.00	7,450.53	7,338.77	113.38	23.52	-90.23	6,108.97	-2,128.90	566.74	480.77	85.97	6.592	
14,600.00	7,390.00	7,451.18	7,339.42	114.94	23.53	-90.41	6,108.98	-2,128.91	661.42	579.33	82.09	8.057	
14,700.00	7,390.00	7,451.83	7,340.08	116.49	23.53	-90.60	6,108.98	-2,128.92	757.46	678.26	79.21	9.563	
14,779.56	7,390.00	7,452.36	7,340.60	117.73	23.53	-90.76	6,108.98	-2,128.93	834.55	757.14	77.41	10.781	

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - Grant Bros 23-54 - EXTRACTION - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 118-ISCWSA MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Separation Factor		
13,000.00	7,390.00	7,433.11	7,321.02	91.08	22.95	89.11	6,072.34	-784.17	1,480.42	1,378.62	101.80	14.542		
13,100.00	7,390.00	7,433.53	7,321.44	92.52	22.95	89.13	6,072.34	-784.16	1,419.68	1,315.03	104.65	13.566		
13,200.00	7,390.00	7,433.94	7,321.85	93.96	22.95	89.15	6,072.34	-784.16	1,363.58	1,256.02	107.56	12.678		
13,300.00	7,390.00	7,434.36	7,322.27	95.41	22.95	89.17	6,072.34	-784.15	1,312.70	1,202.24	110.46	11.884		
13,400.00	7,390.00	7,434.77	7,322.68	96.86	22.95	89.19	6,072.34	-784.15	1,267.68	1,154.41	113.28	11.191		
13,500.00	7,390.00	7,435.18	7,323.09	98.31	22.95	89.21	6,072.34	-784.14	1,229.17	1,113.27	115.91	10.605		
13,600.00	7,390.00	7,435.59	7,323.50	99.77	22.95	89.23	6,072.34	-784.14	1,197.79	1,079.56	118.23	10.131		
13,700.00	7,390.00	7,436.00	7,323.91	101.24	22.95	89.25	6,072.35	-784.13	1,174.12	1,053.98	120.13	9.774		
13,800.00	7,390.00	7,436.40	7,324.31	102.70	22.95	89.27	6,072.35	-784.13	1,158.61	1,037.12	121.49	9.536		
13,900.00	7,390.00	7,436.81	7,324.72	104.17	22.95	89.29	6,072.35	-784.12	1,151.62	1,029.39	122.23	9.422		
13,930.80	7,390.00	7,436.93	7,324.84	104.63	22.95	89.30	6,072.35	-784.12	1,151.21	1,028.89	122.32	9.412 CC, ES		
13,953.41	7,390.00	7,437.02	7,324.93	104.96	22.95	89.30	6,072.35	-784.12	1,151.43	1,029.09	122.34	9.412 SF		
14,000.00	7,390.00	7,437.20	7,325.11	105.65	22.96	89.31	6,072.35	-784.12	1,153.93	1,031.65	122.28	9.437		
14,064.18	7,390.00	7,437.42	7,325.33	106.63	22.96	89.31	6,072.35	-784.12	1,162.54	1,040.57	121.98	9.531		
14,100.00	7,390.00	7,437.53	7,325.44	107.18	22.96	89.32	6,072.35	-784.11	1,169.53	1,047.84	121.69	9.610		
14,200.00	7,390.00	7,437.85	7,325.76	108.73	22.96	89.34	6,072.35	-784.11	1,194.51	1,074.01	120.50	9.913		
14,300.00	7,390.00	7,438.16	7,326.07	110.28	22.96	89.35	6,072.35	-784.11	1,227.16	1,108.37	118.79	10.330		
14,400.00	7,390.00	7,438.48	7,326.39	111.83	22.96	89.37	6,072.36	-784.10	1,266.88	1,150.19	116.68	10.857		
14,500.00	7,390.00	7,438.79	7,326.70	113.38	22.96	89.38	6,072.36	-784.10	1,313.03	1,198.74	114.29	11.489		
14,600.00	7,390.00	7,439.10	7,327.01	114.94	22.96	89.40	6,072.36	-784.09	1,364.95	1,253.24	111.72	12.218		
14,700.00	7,390.00	7,439.41	7,327.32	116.49	22.96	89.41	6,072.36	-784.09	1,422.03	1,312.97	109.05	13.040		
14,779.56	7,390.00	7,439.66	7,327.57	117.73	22.96	89.43	6,072.36	-784.09	1,470.71	1,363.79	106.92	13.755		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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		Total		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor	
10,700.00	7,390.00	7,326.61	7,324.08	60.09	12.77	89.61	4,182.12	-1,370.21	1,456.66	1,391.65	65.01	22.406	
10,800.00	7,390.00	7,326.91	7,324.38	61.30	12.77	89.64	4,182.13	-1,370.21	1,365.56	1,299.39	66.17	20.636	
10,900.00	7,390.00	7,327.21	7,324.68	62.54	12.77	89.67	4,182.13	-1,370.21	1,275.80	1,208.30	67.49	18.903	
11,000.00	7,390.00	7,327.51	7,324.98	63.78	12.77	89.70	4,182.13	-1,370.21	1,187.66	1,118.68	68.99	17.215	
11,100.00	7,390.00	7,327.81	7,325.28	65.05	12.77	89.73	4,182.13	-1,370.21	1,101.56	1,030.87	70.69	15.583	
11,200.00	7,390.00	7,328.11	7,325.58	66.33	12.77	89.76	4,182.13	-1,370.21	1,018.00	945.38	72.62	14.018	
11,300.00	7,390.00	7,328.42	7,325.89	67.62	12.77	89.79	4,182.13	-1,370.21	937.67	862.87	74.80	12.536	
11,400.00	7,390.00	7,328.72	7,326.19	68.93	12.77	89.82	4,182.13	-1,370.21	861.46	784.24	77.22	11.156	
11,500.00	7,390.00	7,329.03	7,326.50	70.25	12.77	89.85	4,182.13	-1,370.21	790.57	710.75	79.83	9.903	
11,600.00	7,390.00	7,329.33	7,326.80	71.58	12.77	89.88	4,182.13	-1,370.21	726.57	644.05	82.52	8.805	
11,700.00	7,390.00	7,329.64	7,327.11	72.92	12.77	89.91	4,182.13	-1,370.21	671.41	586.37	85.04	7.895	
11,800.00	7,390.00	7,329.95	7,327.42	74.27	12.77	89.94	4,182.14	-1,370.21	627.44	540.42	87.02	7.210	
11,900.00	7,390.00	7,330.26	7,327.73	75.63	12.77	89.97	4,182.14	-1,370.21	597.14	509.19	87.95	6.789	
12,000.00	7,390.00	7,330.57	7,328.04	77.00	12.77	90.00	4,182.14	-1,370.21	582.63	495.25	87.39	6.667 SF	
12,035.55	7,390.00	7,330.68	7,328.16	77.49	12.77	90.02	4,182.14	-1,370.21	581.55	494.77	86.78	6.701 CC, ES	
12,100.00	7,390.00	7,330.89	7,328.36	78.38	12.77	90.04	4,182.14	-1,370.21	585.11	499.94	85.17	6.870	
12,200.00	7,390.00	7,331.20	7,328.67	79.76	12.77	90.07	4,182.14	-1,370.21	604.35	522.79	81.56	7.410	
12,300.00	7,390.00	7,331.52	7,328.99	81.15	12.77	90.10	4,182.14	-1,370.21	638.85	561.69	77.16	8.279	
12,400.00	7,390.00	7,331.83	7,329.30	82.55	12.78	90.13	4,182.14	-1,370.21	686.31	613.70	72.61	9.452	
12,500.00	7,390.00	7,332.15	7,329.62	83.96	12.78	90.16	4,182.14	-1,370.21	744.25	675.90	68.35	10.889	
12,600.00	7,390.00	7,332.47	7,329.94	85.37	12.78	90.19	4,182.14	-1,370.21	810.43	745.81	64.62	12.541	
12,700.00	7,390.00	7,332.79	7,330.26	86.79	12.78	90.22	4,182.14	-1,370.21	883.00	821.50	61.50	14.357	
12,800.00	7,390.00	7,333.11	7,330.58	88.21	12.78	90.25	4,182.15	-1,370.21	960.51	901.55	58.96	16.292	
12,900.00	7,390.00	7,333.43	7,330.90	89.64	12.78	90.29	4,182.15	-1,370.21	1,041.86	984.94	56.92	18.305	
13,000.00	7,390.00	7,333.76	7,331.23	91.08	12.78	90.32	4,182.15	-1,370.21	1,126.22	1,070.92	55.30	20.366	
13,100.00	7,390.00	7,334.08	7,331.55	92.52	12.78	90.35	4,182.15	-1,370.21	1,212.95	1,158.93	54.02	22.452	
13,200.00	7,390.00	7,334.41	7,331.88	93.96	12.78	90.38	4,182.15	-1,370.21	1,301.59	1,248.57	53.02	24.547	
13,300.00	7,390.00	7,334.73	7,332.21	95.41	12.78	90.41	4,182.15	-1,370.21	1,391.77	1,339.53	52.24	26.640	
13,400.00	7,390.00	7,335.06	7,332.53	96.86	12.78	90.45	4,182.15	-1,370.21	1,483.21	1,431.57	51.64	28.724	

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - Grant Bros 32-26 - CPR - GYRO												Offset Site Error: 0.00 usft	
Survey Program: 100-VESSI_GYROFLEX												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis		Separation Factor
9,200.00	7,390.00	7,304.02	7,301.12	45.63	12.77	83.80	2,805.87	-1,661.06	1,488.27	1,431.49	56.79	26.208	
9,300.00	7,390.00	7,305.94	7,303.04	46.28	12.77	84.16	2,805.90	-1,661.02	1,390.54	1,333.42	57.12	24.346	
9,400.00	7,390.00	7,307.86	7,304.95	46.98	12.77	84.52	2,805.94	-1,660.99	1,293.15	1,235.65	57.49	22.492	
9,500.00	7,390.00	7,309.77	7,306.86	47.74	12.78	84.88	2,805.97	-1,660.95	1,196.18	1,138.25	57.93	20.648	
9,600.00	7,390.00	7,311.67	7,308.77	48.56	12.78	85.24	2,806.01	-1,660.92	1,099.76	1,041.31	58.44	18.817	
9,700.00	7,390.00	7,313.57	7,310.67	49.42	12.78	85.60	2,806.04	-1,660.88	1,004.03	944.98	59.05	17.002	
9,800.00	7,390.00	7,315.47	7,312.56	50.33	12.79	85.95	2,806.08	-1,660.85	909.22	849.44	59.78	15.209	
9,900.00	7,390.00	7,317.36	7,314.45	51.29	12.79	86.31	2,806.11	-1,660.81	815.65	754.98	60.67	13.445	
10,000.00	7,390.00	7,319.25	7,316.34	52.28	12.79	86.66	2,806.15	-1,660.78	723.79	662.04	61.75	11.722	
10,100.00	7,390.00	7,321.13	7,318.22	53.31	12.80	87.02	2,806.18	-1,660.74	634.39	571.31	63.08	10.056	
10,200.00	7,390.00	7,323.01	7,320.09	54.37	12.80	87.37	2,806.22	-1,660.71	548.66	483.93	64.72	8.477	
10,300.00	7,390.00	7,324.88	7,321.97	55.46	12.80	87.73	2,806.25	-1,660.67	468.61	401.94	66.67	7.029	
10,400.00	7,390.00	7,326.74	7,323.83	56.58	12.81	88.08	2,806.29	-1,660.64	397.68	328.96	68.72	5.787	
10,500.00	7,390.00	7,328.61	7,325.69	57.73	12.81	88.43	2,806.32	-1,660.61	341.62	271.48	70.15	4.870	
10,600.00	7,390.00	7,330.47	7,327.55	58.90	12.81	88.78	2,806.35	-1,660.57	308.63	239.25	69.38	4.448 SF	
10,657.30	7,390.00	7,331.53	7,328.61	59.58	12.82	88.98	2,806.37	-1,660.55	303.27	235.87	67.40	4.500 CC, ES	
10,700.00	7,390.00	7,332.32	7,329.40	60.09	12.82	89.13	2,806.39	-1,660.54	306.26	241.01	65.24	4.694	
10,800.00	7,390.00	7,334.17	7,331.25	61.30	12.82	89.48	2,806.42	-1,660.51	335.15	275.84	59.31	5.650	
10,900.00	7,390.00	7,336.01	7,333.10	62.54	12.82	89.83	2,806.45	-1,660.47	388.40	334.07	54.33	7.148	
11,000.00	7,390.00	7,337.85	7,334.93	63.78	12.83	90.18	2,806.49	-1,660.44	457.57	406.31	51.26	8.926	
11,100.00	7,390.00	7,339.68	7,336.77	65.05	12.83	90.52	2,806.52	-1,660.41	536.55	486.87	49.69	10.799	
11,200.00	7,390.00	7,341.51	7,338.60	66.33	12.83	90.87	2,806.55	-1,660.38	621.61	572.61	49.00	12.687	
11,300.00	7,390.00	7,343.34	7,340.42	67.62	12.84	91.21	2,806.59	-1,660.35	710.56	661.78	48.78	14.568	
11,400.00	7,390.00	7,345.16	7,342.24	68.93	12.84	91.56	2,806.62	-1,660.31	802.11	753.32	48.79	16.439	
11,500.00	7,390.00	7,346.98	7,344.06	70.25	12.84	91.90	2,806.65	-1,660.28	895.47	846.55	48.93	18.302	
11,600.00	7,390.00	7,348.79	7,345.87	71.58	12.85	92.24	2,806.69	-1,660.25	990.13	941.02	49.11	20.160	
11,700.00	7,390.00	7,350.60	7,347.68	72.92	12.85	92.58	2,806.72	-1,660.22	1,085.74	1,036.42	49.32	22.015	
11,800.00	7,390.00	7,352.40	7,349.48	74.27	12.85	92.92	2,806.75	-1,660.19	1,182.07	1,132.54	49.53	23.866	
11,900.00	7,390.00	7,354.20	7,351.28	75.63	12.85	93.26	2,806.78	-1,660.16	1,278.97	1,229.23	49.74	25.715	
12,000.00	7,390.00	7,355.99	7,353.07	77.00	12.86	93.59	2,806.81	-1,660.12	1,376.30	1,326.37	49.93	27.563	
12,100.00	7,390.00	7,357.78	7,354.86	78.38	12.86	93.93	2,806.85	-1,660.09	1,473.99	1,423.87	50.12	29.409	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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
12,400.00	7,390.00	7,351.60	7,349.27	82.55	6.43	90.77	5,772.49	-1,103.58	1,484.77	1,409.40	75.38	19.697	
12,500.00	7,390.00	7,349.98	7,347.65	83.96	6.42	90.66	5,772.52	-1,103.60	1,403.18	1,325.45	77.73	18.052	
12,600.00	7,390.00	7,348.34	7,346.02	85.37	6.42	90.55	5,772.55	-1,103.62	1,324.11	1,243.82	80.30	16.491	
12,700.00	7,390.00	7,346.70	7,344.38	86.79	6.42	90.44	5,772.58	-1,103.64	1,248.05	1,164.98	83.07	15.024	
12,800.00	7,390.00	7,345.04	7,342.72	88.21	6.42	90.32	5,772.60	-1,103.66	1,175.58	1,089.53	86.05	13.662	
12,900.00	7,390.00	7,343.37	7,341.04	89.64	6.42	90.21	5,772.63	-1,103.68	1,107.39	1,018.21	89.19	12.417	
13,000.00	7,390.00	7,341.68	7,339.36	91.08	6.42	90.09	5,772.66	-1,103.70	1,044.34	951.93	92.42	11.300	
13,100.00	7,390.00	7,339.98	7,337.66	92.52	6.42	89.98	5,772.69	-1,103.71	987.41	891.78	95.63	10.325	
13,200.00	7,390.00	7,338.26	7,335.94	93.96	6.41	89.86	5,772.72	-1,103.73	937.71	839.06	98.65	9.505	
13,300.00	7,390.00	7,336.54	7,334.21	95.41	6.41	89.74	5,772.75	-1,103.75	896.45	795.19	101.27	8.852	
13,400.00	7,390.00	7,334.79	7,332.47	96.86	6.41	89.62	5,772.79	-1,103.77	864.83	761.63	103.21	8.380	
13,500.00	7,390.00	7,333.03	7,330.71	98.31	6.41	89.50	5,772.82	-1,103.79	843.94	739.73	104.21	8.098	
13,600.00	7,390.00	7,331.26	7,328.94	99.77	6.41	89.38	5,772.85	-1,103.81	834.59	730.49	104.10	8.018 SF	
13,628.53	7,390.00	7,330.75	7,328.43	100.19	6.41	89.34	5,772.86	-1,103.82	834.10	730.26	103.84	8.032 CC, ES	
13,700.00	7,390.00	7,329.47	7,327.15	101.24	6.41	89.26	5,772.88	-1,103.83	837.16	734.38	102.78	8.145	
13,800.00	7,390.00	7,327.66	7,325.34	102.70	6.41	89.13	5,772.91	-1,103.85	851.54	751.18	100.36	8.485	
13,900.00	7,390.00	7,325.84	7,323.52	104.17	6.40	89.01	5,772.95	-1,103.87	877.15	780.11	97.04	9.039	
13,953.41	7,390.00	7,324.86	7,322.54	104.96	6.40	88.94	5,772.97	-1,103.89	895.12	800.11	95.01	9.421	
14,000.00	7,390.00	7,324.00	7,321.68	105.65	6.40	88.87	5,772.98	-1,103.90	913.65	820.50	93.15	9.809	
14,064.18	7,390.00	7,322.77	7,320.45	106.63	6.40	88.76	5,773.00	-1,103.91	944.20	853.66	90.54	10.428	
14,100.00	7,390.00	7,322.08	7,319.76	107.18	6.40	88.71	5,773.02	-1,103.92	963.28	874.19	89.09	10.812	
14,200.00	7,390.00	7,320.14	7,317.82	108.73	6.40	88.57	5,773.05	-1,103.94	1,021.30	936.23	85.06	12.006	
14,300.00	7,390.00	7,318.18	7,315.86	110.28	6.40	88.43	5,773.09	-1,103.96	1,085.44	1,004.24	81.20	13.368	
14,400.00	7,390.00	7,316.20	7,313.89	111.83	6.40	88.29	5,773.13	-1,103.98	1,154.69	1,077.10	77.59	14.882	
14,500.00	7,390.00	7,314.21	7,311.89	113.38	6.39	88.15	5,773.16	-1,104.01	1,228.19	1,153.91	74.28	16.534	
14,600.00	7,390.00	7,312.20	7,309.88	114.94	6.39	88.00	5,773.20	-1,104.03	1,305.20	1,233.92	71.28	18.310	
14,700.00	7,390.00	7,310.17	7,307.85	116.49	6.39	87.86	5,773.24	-1,104.05	1,385.16	1,316.56	68.60	20.193	
14,779.56	7,390.00	7,308.54	7,306.23	117.73	6.39	87.75	5,773.27	-1,104.07	1,450.55	1,383.89	66.66	21.759	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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		
10,600.00	7,390.00	7,347.99	7,347.99	58.90	12.82	90.00	3,149.23	-542.38	1,476.40	1,405.74	70.66	20.895		
10,700.00	7,390.00	7,347.99	7,347.99	60.09	12.82	90.00	3,149.23	-542.38	1,451.82	1,380.49	71.33	20.355		
10,800.00	7,390.00	7,347.99	7,347.99	61.30	12.82	90.00	3,149.23	-542.38	1,433.80	1,361.95	71.85	19.956		
10,900.00	7,390.00	7,347.99	7,347.99	62.54	12.82	90.00	3,149.23	-542.38	1,422.61	1,350.40	72.20	19.703		
11,000.00	7,390.00	7,347.99	7,347.99	63.78	12.82	90.00	3,149.23	-542.38	1,418.39	1,346.01	72.38	19.597		
11,009.90	7,390.00	7,347.99	7,347.99	63.91	12.82	90.00	3,149.23	-542.38	1,418.36	1,345.97	72.38	19.595 CC, ES, SF		
11,100.00	7,390.00	7,347.99	7,347.99	65.05	12.82	90.00	3,149.23	-542.38	1,421.21	1,348.85	72.36	19.641		
11,200.00	7,390.00	7,347.99	7,347.99	66.33	12.82	90.00	3,149.23	-542.38	1,431.04	1,358.88	72.16	19.832		
11,300.00	7,390.00	7,347.99	7,347.99	67.62	12.82	90.00	3,149.23	-542.38	1,447.72	1,375.94	71.78	20.168		
11,400.00	7,390.00	7,347.99	7,347.99	68.93	12.82	90.00	3,149.23	-542.38	1,471.02	1,399.77	71.25	20.646		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
13,300.00	7,390.00	7,313.99	7,313.99	95.41	12.77	90.00	6,687.24	-1,257.57	1,411.89	1,328.29	83.60	16.889	
13,400.00	7,390.00	7,313.99	7,313.99	96.86	12.77	90.00	6,687.24	-1,257.57	1,324.81	1,238.54	86.27	15.357	
13,500.00	7,390.00	7,313.99	7,313.99	98.31	12.77	90.00	6,687.24	-1,257.57	1,239.68	1,150.43	89.25	13.890	
13,600.00	7,390.00	7,313.99	7,313.99	99.77	12.77	90.00	6,687.24	-1,257.57	1,156.94	1,064.35	92.59	12.496	
13,700.00	7,390.00	7,313.99	7,313.99	101.24	12.77	90.00	6,687.24	-1,257.57	1,077.13	980.84	96.29	11.186	
13,800.00	7,390.00	7,313.99	7,313.99	102.70	12.77	90.00	6,687.24	-1,257.57	1,000.95	900.58	100.37	9.973	
13,900.00	7,390.00	7,313.99	7,313.99	104.17	12.77	90.00	6,687.24	-1,257.57	929.29	824.51	104.79	8.868	
13,953.41	7,390.00	7,313.99	7,313.99	104.96	12.77	90.00	6,687.24	-1,257.57	893.26	786.01	107.25	8.328	
14,000.00	7,390.00	7,313.99	7,313.99	105.65	12.77	90.00	6,687.24	-1,257.57	863.81	754.33	109.47	7.891	
14,064.18	7,390.00	7,313.99	7,313.99	106.63	12.77	90.00	6,687.24	-1,257.57	827.59	714.98	112.61	7.349	
14,100.00	7,390.00	7,313.99	7,313.99	107.18	12.77	90.00	6,687.24	-1,257.57	809.49	695.14	114.35	7.079	
14,200.00	7,390.00	7,313.99	7,313.99	108.73	12.77	90.00	6,687.24	-1,257.57	765.58	646.72	118.86	6.441	
14,300.00	7,390.00	7,313.99	7,313.99	110.28	12.77	90.00	6,687.24	-1,257.57	732.78	610.33	122.44	5.985	
14,400.00	7,390.00	7,313.99	7,313.99	111.83	12.77	90.00	6,687.24	-1,257.57	712.60	588.03	124.57	5.721	
14,495.79	7,390.00	7,313.99	7,313.99	113.32	12.77	90.00	6,687.24	-1,257.57	706.13	581.26	124.87	5.655 CC, ES, SF	
14,500.00	7,390.00	7,313.99	7,313.99	113.38	12.77	90.00	6,687.24	-1,257.57	706.15	581.31	124.84	5.656	
14,600.00	7,390.00	7,313.99	7,313.99	114.94	12.77	90.00	6,687.24	-1,257.57	713.78	590.64	123.14	5.797	
14,700.00	7,390.00	7,313.99	7,313.99	116.49	12.77	90.00	6,687.24	-1,257.57	735.07	615.38	119.69	6.142	
14,779.56	7,390.00	7,313.99	7,313.99	117.73	12.77	90.00	6,687.24	-1,257.57	761.02	645.01	116.01	6.560	

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - Grant Brothers 34-23C - EXTRACTION - GYRO												Offset Site Error:	0.00 usft
Survey Program: 100-VESSI_GYROFLEX, 8090-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
12,000.00	7,390.00	7,332.20	7,331.45	77.00	12.12	89.95	5,447.06	-1,328.44	1,437.68	1,365.59	72.09	19.943	
12,100.00	7,390.00	7,332.59	7,331.85	78.38	12.12	89.99	5,447.07	-1,328.45	1,347.88	1,273.97	73.91	18.237	
12,200.00	7,390.00	7,332.99	7,332.24	79.76	12.12	90.02	5,447.07	-1,328.45	1,259.61	1,183.65	75.96	16.582	
12,300.00	7,390.00	7,333.38	7,332.63	81.15	12.12	90.06	5,447.07	-1,328.45	1,173.23	1,094.94	78.29	14.986	
12,400.00	7,390.00	7,333.77	7,333.02	82.55	12.12	90.10	5,447.07	-1,328.46	1,089.17	1,008.26	80.92	13.460	
12,500.00	7,390.00	7,334.16	7,333.41	83.96	12.12	90.13	5,447.07	-1,328.46	1,008.04	924.16	83.88	12.018	
12,600.00	7,390.00	7,334.55	7,333.80	85.37	12.12	90.17	5,447.07	-1,328.46	930.58	843.41	87.17	10.675	
12,700.00	7,390.00	7,334.94	7,334.19	86.79	12.12	90.20	5,447.08	-1,328.46	857.80	767.02	90.78	9.449	
12,800.00	7,390.00	7,335.33	7,334.58	88.21	12.12	90.24	5,447.08	-1,328.47	790.99	696.38	94.61	8.360	
12,900.00	7,390.00	7,335.72	7,334.97	89.64	12.12	90.28	5,447.08	-1,328.47	731.78	633.33	98.45	7.433	
13,000.00	7,390.00	7,336.11	7,335.36	91.08	12.12	90.31	5,447.08	-1,328.47	682.16	580.22	101.94	6.692	
13,100.00	7,390.00	7,336.50	7,335.75	92.52	12.12	90.35	5,447.08	-1,328.48	644.34	539.80	104.55	6.163	
13,200.00	7,390.00	7,336.89	7,336.14	93.96	12.12	90.39	5,447.08	-1,328.48	620.50	514.83	105.66	5.872	
13,300.00	7,390.00	7,337.28	7,336.53	95.41	12.12	90.42	5,447.08	-1,328.48	612.25	507.44	104.82	5.841 ES, SF	
13,300.81	7,390.00	7,337.29	7,336.54	95.42	12.12	90.42	5,447.08	-1,328.48	612.25	507.45	104.80	5.842 CC	
13,400.00	7,390.00	7,337.67	7,336.92	96.86	12.12	90.46	5,447.09	-1,328.48	620.24	518.30	101.93	6.085	
13,500.00	7,390.00	7,338.06	7,337.32	98.31	12.12	90.50	5,447.09	-1,328.49	643.84	546.44	97.40	6.610	
13,600.00	7,390.00	7,338.46	7,337.71	99.77	12.13	90.53	5,447.09	-1,328.49	681.44	589.53	91.91	7.414	
13,700.00	7,390.00	7,338.85	7,338.10	101.24	12.13	90.57	5,447.09	-1,328.49	730.89	644.73	86.17	8.482	
13,800.00	7,390.00	7,339.24	7,338.49	102.70	12.13	90.61	5,447.09	-1,328.50	789.96	709.30	80.67	9.793	
13,900.00	7,390.00	7,339.63	7,338.88	104.17	12.13	90.64	5,447.09	-1,328.50	856.67	780.97	75.69	11.318	
13,953.41	7,390.00	7,339.84	7,339.09	104.96	12.13	90.66	5,447.09	-1,328.50	894.84	821.54	73.30	12.208	
14,000.00	7,390.00	7,340.02	7,339.27	105.65	12.13	90.70	5,447.10	-1,328.50	929.79	858.39	71.39	13.024	
14,064.18	7,390.00	7,340.30	7,339.55	106.63	12.13	90.77	5,447.10	-1,328.50	980.80	911.71	69.09	14.195	
14,100.00	7,390.00	7,340.45	7,339.70	107.18	12.13	90.78	5,447.10	-1,328.51	1,010.31	942.36	67.95	14.868	
14,200.00	7,390.00	7,340.89	7,340.14	108.73	12.13	90.83	5,447.10	-1,328.51	1,094.70	1,029.58	65.12	16.811	
14,300.00	7,390.00	7,341.33	7,340.58	110.28	12.13	90.87	5,447.10	-1,328.51	1,181.53	1,118.77	62.75	18.828	
14,400.00	7,390.00	7,341.77	7,341.02	111.83	12.13	90.92	5,447.10	-1,328.52	1,270.30	1,209.51	60.79	20.898	
14,500.00	7,390.00	7,342.21	7,341.46	113.38	12.13	90.96	5,447.10	-1,328.52	1,360.62	1,301.48	59.15	23.004	
14,600.00	7,390.00	7,342.65	7,341.90	114.94	12.13	91.01	5,447.11	-1,328.52	1,452.22	1,394.44	57.78	25.135	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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		
0.00	0.00	0.00	0.00	0.00	0.00	-89.48	13.09	-1,455.24	1,456.16					
100.00	100.00	50.00	50.00	0.14	0.09	-89.48	13.09	-1,455.24	1,455.30	1,455.08	0.23	6,387.739		
200.00	200.00	150.00	150.00	0.50	0.27	-89.48	13.09	-1,455.24	1,455.30	1,454.54	0.77	1,901.038		
300.00	300.00	250.00	250.00	0.85	0.45	-89.48	13.09	-1,455.24	1,455.30	1,454.00	1.30	1,116.686		
400.00	399.98	349.98	349.98	1.20	0.63	14.04	13.09	-1,455.24	1,453.61	1,451.78	1.83	793.360		
500.00	499.84	449.84	449.84	1.56	0.81	14.12	13.09	-1,455.24	1,448.53	1,446.17	2.36	613.163		
600.00	599.45	549.45	549.45	1.92	0.98	14.24	13.09	-1,455.24	1,440.08	1,437.18	2.90	496.720		
700.00	698.70	648.70	648.70	2.29	1.16	14.42	13.09	-1,455.24	1,428.27	1,424.83	3.44	415.128		
800.00	797.47	747.47	747.47	2.69	1.34	14.66	13.09	-1,455.24	1,413.12	1,409.13	3.99	354.517		
900.00	895.62	845.62	845.62	3.11	1.52	14.95	13.09	-1,455.24	1,394.65	1,390.11	4.54	307.475		
1,000.00	993.06	943.06	943.06	3.57	1.69	15.31	13.09	-1,455.24	1,372.90	1,367.81	5.09	269.701		
1,100.00	1,089.64	1,039.64	1,039.64	4.06	1.86	15.74	13.09	-1,455.24	1,347.90	1,342.25	5.65	238.538		
1,155.17	1,142.53	1,092.53	1,092.53	4.35	1.96	16.01	13.09	-1,455.24	1,332.73	1,326.77	5.97	223.418		
1,200.00	1,185.37	1,135.37	1,135.37	4.59	2.04	16.17	13.09	-1,455.24	1,320.03	1,313.81	6.22	212.292		
1,300.00	1,280.95	1,230.95	1,230.95	5.14	2.21	16.53	13.09	-1,455.24	1,291.71	1,284.93	6.78	190.516		
1,400.00	1,376.53	1,326.53	1,326.53	5.71	2.38	16.91	13.09	-1,455.24	1,263.44	1,256.09	7.35	171.925		
1,500.00	1,472.11	1,422.11	1,422.11	6.28	2.55	17.30	13.09	-1,455.24	1,235.22	1,227.30	7.92	155.897		
1,600.00	1,567.68	1,517.68	1,517.68	6.86	2.72	17.72	13.09	-1,455.24	1,207.07	1,198.56	8.50	141.956		
1,700.00	1,663.26	1,613.26	1,613.26	7.45	2.89	18.15	13.09	-1,455.24	1,178.97	1,169.88	9.09	129.731		
1,800.00	1,758.84	1,708.84	1,708.84	8.03	3.06	18.60	13.09	-1,455.24	1,150.94	1,141.26	9.68	118.934		
1,900.00	1,854.42	1,804.42	1,804.42	8.63	3.23	19.08	13.09	-1,455.24	1,122.98	1,112.71	10.27	109.334		
2,000.00	1,949.99	1,899.99	1,899.99	9.22	3.41	19.58	13.09	-1,455.24	1,095.09	1,084.22	10.87	100.748		
2,100.00	2,045.57	1,995.57	1,995.57	9.82	3.58	20.11	13.09	-1,455.24	1,067.29	1,055.82	11.47	93.027		
2,200.00	2,141.15	2,091.15	2,091.15	10.41	3.75	20.66	13.09	-1,455.24	1,039.58	1,027.50	12.08	86.049		
2,300.00	2,236.73	2,186.73	2,186.73	11.01	3.92	21.25	13.09	-1,455.24	1,011.96	999.26	12.69	79.714		
2,400.00	2,332.30	2,282.30	2,282.30	11.61	4.09	21.86	13.09	-1,455.24	984.44	971.13	13.31	73.940		
2,500.00	2,427.88	2,377.88	2,377.88	12.21	4.26	22.51	13.09	-1,455.24	957.04	943.10	13.94	68.657		
2,600.00	2,523.46	2,473.46	2,473.46	12.82	4.43	23.20	13.09	-1,455.24	929.76	915.19	14.57	63.808		
2,700.00	2,619.04	2,569.04	2,569.04	13.42	4.60	23.93	13.09	-1,455.24	902.62	887.41	15.21	59.342		
2,800.00	2,714.61	2,664.61	2,664.61	14.02	4.78	24.71	13.09	-1,455.24	875.62	859.76	15.86	55.218		
2,900.00	2,810.19	2,760.19	2,760.19	14.63	4.95	25.53	13.09	-1,455.24	848.78	832.27	16.51	51.400		
3,000.00	2,905.77	2,855.77	2,855.77	15.23	5.12	26.41	13.09	-1,455.24	822.12	804.94	17.18	47.856		
3,100.00	3,001.35	2,951.35	2,951.35	15.84	5.29	27.34	13.09	-1,455.24	795.65	777.79	17.86	44.561		
3,200.00	3,096.92	3,046.92	3,046.92	16.44	5.46	28.34	13.09	-1,455.24	769.39	750.85	18.54	41.491		
3,300.00	3,192.50	3,142.50	3,142.50	17.05	5.63	29.40	13.09	-1,455.24	743.37	724.13	19.25	38.626		
3,400.00	3,288.08	3,238.08	3,238.08	17.65	5.80	30.54	13.09	-1,455.24	717.61	697.65	19.96	35.950		
3,500.00	3,383.66	3,333.66	3,333.66	18.26	5.98	31.76	13.09	-1,455.24	692.15	671.45	20.69	33.446		
3,600.00	3,479.23	3,429.23	3,429.23	18.87	6.15	33.08	13.09	-1,455.24	667.00	645.56	21.45	31.101		
3,700.00	3,574.81	3,524.81	3,524.81	19.47	6.32	34.49	13.09	-1,455.24	642.22	620.01	22.22	28.906		
3,800.00	3,670.39	3,620.39	3,620.39	20.08	6.49	36.01	13.09	-1,455.24	617.85	594.84	23.01	26.848		
3,900.00	3,765.97	3,715.97	3,715.97	20.69	6.66	37.65	13.09	-1,455.24	593.93	570.10	23.83	24.921		
4,000.00	3,861.54	3,811.54	3,811.54	21.30	6.83	39.42	13.09	-1,455.24	570.53	545.85	24.68	23.117		
4,100.00	3,957.12	3,907.12	3,907.12	21.90	7.00	41.34	13.09	-1,455.24	547.71	522.15	25.56	21.431		
4,200.00	4,052.70	4,002.70	4,002.70	22.51	7.17	43.41	13.09	-1,455.24	525.54	499.07	26.47	19.856		
4,300.00	4,148.28	4,098.28	4,098.28	23.12	7.35	45.66	13.09	-1,455.24	504.11	476.70	27.41	18.391		
4,400.00	4,243.85	4,193.85	4,193.85	23.73	7.52	48.09	13.09	-1,455.24	483.52	455.13	28.39	17.031		
4,500.00	4,339.43	4,289.43	4,289.43	24.34	7.69	50.73	13.09	-1,455.24	463.89	434.48	29.41	15.775		
4,600.00	4,435.01	4,385.01	4,385.01	24.95	7.86	53.57	13.09	-1,455.24	445.33	414.87	30.46	14.622		
4,700.00	4,530.59	4,480.59	4,480.59	25.55	8.03	56.65	13.09	-1,455.24	427.99	396.45	31.54	13.571		
4,800.00	4,626.16	4,576.16	4,576.16	26.16	8.20	59.95	13.09	-1,455.24	412.02	379.38	32.64	12.623		
4,900.00	4,721.74	4,671.74	4,671.74	26.77	8.37	63.49	13.09	-1,455.24	397.59	363.83	33.76	11.776		
5,000.00	4,817.32	4,767.32	4,767.32	27.38	8.54	67.27	13.09	-1,455.24	384.87	349.98	34.88	11.033		

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 4B-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 4B-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 #4	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		
5,100.00	4,912.90	4,862.90	4,862.90	27.99	8.72	71.26	13.09	-1,455.24	374.03	338.04	35.99	10.393		
5,200.00	5,008.47	4,958.47	4,958.47	28.60	8.89	75.45	13.09	-1,455.24	365.25	328.19	37.06	9.857		
5,300.00	5,104.05	5,054.05	5,054.05	29.21	9.06	79.81	13.09	-1,455.24	358.67	320.60	38.07	9.422		
5,349.08	5,150.96	5,085.00	5,085.00	29.51	9.11	81.25	13.09	-1,455.24	356.64	318.14	38.50	9.264	CC, ES, SF	
5,400.00	5,199.63	5,085.00	5,085.00	29.82	9.11	81.25	13.09	-1,455.24	360.26	321.88	38.37	9.389		
5,500.00	5,295.21	5,085.00	5,085.00	30.43	9.11	81.25	13.09	-1,455.24	387.26	351.00	36.25	10.682		
5,600.00	5,390.78	5,085.00	5,085.00	31.03	9.11	81.25	13.09	-1,455.24	436.07	403.28	32.79	13.298		
5,700.00	5,486.36	5,085.00	5,085.00	31.64	9.11	81.25	13.09	-1,455.24	500.34	471.16	29.18	17.145		
5,800.00	5,581.94	5,085.00	5,085.00	32.25	9.11	81.25	13.09	-1,455.24	574.91	548.92	25.99	22.117		
5,900.00	5,677.52	5,085.00	5,085.00	32.86	9.11	81.25	13.09	-1,455.24	656.28	632.93	23.35	28.101		
6,000.00	5,773.09	5,085.00	5,085.00	33.47	9.11	81.25	13.09	-1,455.24	742.22	721.01	21.22	34.984		
6,100.00	5,868.67	5,085.00	5,085.00	34.08	9.11	81.25	13.09	-1,455.24	831.31	811.82	19.49	42.656		
6,200.00	5,964.25	5,085.00	5,085.00	34.69	9.11	81.25	13.09	-1,455.24	922.64	904.55	18.09	51.008		
6,300.00	6,059.83	5,085.00	5,085.00	35.30	9.11	81.25	13.09	-1,455.24	1,015.60	998.66	16.94	59.940		
6,400.00	6,155.40	5,085.00	5,085.00	35.91	9.11	81.25	13.09	-1,455.24	1,109.79	1,093.79	16.00	69.357		
6,500.00	6,250.98	5,085.00	5,085.00	36.52	9.11	81.25	13.09	-1,455.24	1,204.91	1,189.69	15.22	79.168		
6,600.00	6,346.56	5,085.00	5,085.00	37.13	9.11	81.25	13.09	-1,455.24	1,300.77	1,286.20	14.57	89.292		
6,700.00	6,442.14	5,085.00	5,085.00	37.74	9.11	81.25	13.09	-1,455.24	1,397.21	1,383.19	14.02	99.650		
6,800.00	6,537.71	5,085.00	5,085.00	38.35	9.11	81.25	13.09	-1,455.24	1,494.11	1,480.55	13.56	110.168		

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - Meredith 1 - KPK WELL - NO SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 5120-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	18.76	93.07	31.61	102.20				
100.00	100.00	71.99	71.99	0.14	0.13	18.76	93.07	31.61	98.29	98.03	0.26	372.520	
200.00	200.00	171.99	171.99	0.50	0.30	18.76	93.07	31.61	98.29	97.49	0.80	123.349	
300.00	300.00	271.99	271.99	0.85	0.47	18.76	93.07	31.61	98.29	96.96	1.33	73.911 CC, ES	
400.00	399.98	371.97	371.97	1.20	0.65	123.09	93.07	31.61	99.23	97.38	1.85	53.523	
500.00	499.84	471.83	471.83	1.56	0.82	125.50	93.07	31.61	102.19	99.81	2.38	42.963	
600.00	599.45	571.44	571.44	1.92	1.00	129.20	93.07	31.61	107.49	104.58	2.91	36.908	
700.00	698.70	670.69	670.69	2.29	1.17	133.75	93.07	31.61	115.60	112.15	3.45	33.465	
800.00	797.47	769.46	769.46	2.69	1.34	138.67	93.07	31.61	126.97	122.97	4.00	31.721	
900.00	895.62	867.61	867.61	3.11	1.51	143.55	93.07	31.61	141.95	137.39	4.56	31.159 SF	
1,000.00	993.06	965.05	965.05	3.57	1.68	148.09	93.07	31.61	160.72	155.61	5.11	31.450	
1,100.00	1,089.64	1,061.63	1,061.63	4.06	1.85	152.12	93.07	31.61	183.36	177.69	5.67	32.361	
1,155.17	1,142.53	1,114.52	1,114.52	4.35	1.95	154.11	93.07	31.61	197.50	191.52	5.98	33.053	
1,200.00	1,185.37	1,157.36	1,157.36	4.59	2.02	155.67	93.07	31.61	209.53	203.31	6.22	33.674	
1,300.00	1,280.95	1,252.94	1,252.94	5.14	2.19	158.59	93.07	31.61	236.82	230.05	6.77	34.994	
1,400.00	1,376.53	1,348.52	1,348.52	5.71	2.35	160.90	93.07	31.61	264.56	257.24	7.31	36.177	
1,500.00	1,472.11	1,444.10	1,444.10	6.28	2.52	162.78	93.07	31.61	292.62	284.76	7.86	37.233	
1,600.00	1,567.68	1,539.67	1,539.67	6.86	2.69	164.33	93.07	31.61	320.93	312.52	8.41	38.175	
1,700.00	1,663.26	1,635.25	1,635.25	7.45	2.85	165.63	93.07	31.61	349.42	340.46	8.96	39.017	
1,800.00	1,758.84	1,730.83	1,730.83	8.03	3.02	166.73	93.07	31.61	378.05	368.54	9.51	39.772	
1,900.00	1,854.42	1,826.41	1,826.41	8.63	3.19	167.68	93.07	31.61	406.79	396.73	10.06	40.450	
2,000.00	1,949.99	1,921.98	1,921.98	9.22	3.35	168.50	93.07	31.61	435.62	425.01	10.61	41.063	
2,100.00	2,045.57	2,017.56	2,017.56	9.82	3.52	169.23	93.07	31.61	464.53	453.36	11.16	41.618	
2,200.00	2,141.15	2,113.14	2,113.14	10.41	3.69	169.86	93.07	31.61	493.49	481.77	11.72	42.122	
2,300.00	2,236.73	2,208.72	2,208.72	11.01	3.86	170.43	93.07	31.61	522.50	510.23	12.27	42.582	
2,400.00	2,332.30	2,304.29	2,304.29	11.61	4.02	170.94	93.07	31.61	551.56	538.73	12.83	43.003	
2,500.00	2,427.88	2,399.87	2,399.87	12.21	4.19	171.39	93.07	31.61	580.65	567.27	13.38	43.390	
2,600.00	2,523.46	2,495.45	2,495.45	12.82	4.36	171.81	93.07	31.61	609.77	595.83	13.94	43.747	
2,700.00	2,619.04	2,591.03	2,591.03	13.42	4.52	172.18	93.07	31.61	638.92	624.42	14.50	44.076	
2,800.00	2,714.61	2,686.60	2,686.60	14.02	4.69	172.53	93.07	31.61	668.09	653.03	15.05	44.381	
2,900.00	2,810.19	2,782.18	2,782.18	14.63	4.86	172.84	93.07	31.61	697.28	681.67	15.61	44.664	
3,000.00	2,905.77	2,877.76	2,877.76	15.23	5.02	173.13	93.07	31.61	726.49	710.32	16.17	44.928	
3,100.00	3,001.35	2,973.34	2,973.34	15.84	5.19	173.40	93.07	31.61	755.71	738.98	16.73	45.174	
3,200.00	3,096.92	3,068.91	3,068.91	16.44	5.36	173.64	93.07	31.61	784.95	767.66	17.29	45.404	
3,300.00	3,192.50	3,164.49	3,164.49	17.05	5.52	173.87	93.07	31.61	814.20	796.35	17.85	45.619	
3,400.00	3,288.08	3,260.07	3,260.07	17.65	5.69	174.08	93.07	31.61	843.46	825.05	18.41	45.821	
3,500.00	3,383.66	3,355.65	3,355.65	18.26	5.86	174.28	93.07	31.61	872.73	853.76	18.97	46.012	
3,600.00	3,479.23	3,451.22	3,451.22	18.87	6.02	174.47	93.07	31.61	902.01	882.49	19.53	46.191	
3,700.00	3,574.81	3,546.80	3,546.80	19.47	6.19	174.64	93.07	31.61	931.30	911.21	20.09	46.360	
3,800.00	3,670.39	3,642.38	3,642.38	20.08	6.36	174.81	93.07	31.61	960.60	939.95	20.65	46.520	
3,900.00	3,765.97	3,737.96	3,737.96	20.69	6.52	174.96	93.07	31.61	989.90	968.69	21.21	46.671	
4,000.00	3,861.54	3,833.53	3,833.53	21.30	6.69	175.11	93.07	31.61	1,019.21	997.44	21.77	46.814	
4,100.00	3,957.12	3,929.11	3,929.11	21.90	6.86	175.24	93.07	31.61	1,048.52	1,026.19	22.33	46.950	
4,200.00	4,052.70	4,024.69	4,024.69	22.51	7.02	175.37	93.07	31.61	1,077.84	1,054.95	22.89	47.079	
4,300.00	4,148.28	4,120.27	4,120.27	23.12	7.19	175.50	93.07	31.61	1,107.17	1,083.71	23.46	47.202	
4,400.00	4,243.85	4,215.84	4,215.84	23.73	7.36	175.61	93.07	31.61	1,136.50	1,112.48	24.02	47.319	
4,500.00	4,339.43	4,311.42	4,311.42	24.34	7.52	175.72	93.07	31.61	1,165.83	1,141.25	24.58	47.431	
4,600.00	4,435.01	4,407.00	4,407.00	24.95	7.69	175.83	93.07	31.61	1,195.17	1,170.03	25.14	47.537	
4,700.00	4,530.59	4,502.58	4,502.58	25.55	7.86	175.93	93.07	31.61	1,224.51	1,198.80	25.70	47.639	
4,800.00	4,626.16	4,598.15	4,598.15	26.16	8.03	176.02	93.07	31.61	1,253.85	1,227.58	26.27	47.736	
4,900.00	4,721.74	4,693.73	4,693.73	26.77	8.19	176.11	93.07	31.61	1,283.20	1,256.37	26.83	47.830	
5,000.00	4,817.32	4,789.31	4,789.31	27.38	8.36	176.20	93.07	31.61	1,312.55	1,285.16	27.39	47.919	

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Meredith 1 - KPK WELL - NO SURVEYS													Offset Site Error: 0.00 usft
Survey Program: 5120-Geolink MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
5,100.00	4,912.90	4,884.89	4,884.89	27.99	8.53	176.28	93.07	31.61	1,341.90	1,313.95	27.95	48.004	
5,200.00	5,008.47	4,980.46	4,980.46	28.60	8.69	176.36	93.07	31.61	1,371.25	1,342.74	28.52	48.086	
5,300.00	5,104.05	5,076.04	5,076.04	29.21	8.86	176.44	93.07	31.61	1,400.61	1,371.53	29.08	48.165	
5,400.00	5,199.63	5,119.99	5,119.99	29.82	8.94	176.47	93.07	31.61	1,430.90	1,401.57	29.34	48.776	
5,500.00	5,295.21	5,119.99	5,119.99	30.43	8.94	176.47	93.07	31.61	1,466.74	1,437.49	29.25	50.147	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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		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)						
7,800.00	7,342.31	7,302.79	7,302.06	42.17	7.50	41.86	1,410.25	-1,670.73	1,483.35	1,436.92	46.42	31.952		
7,850.00	7,359.13	7,319.04	7,318.31	42.21	7.49	46.44	1,410.14	-1,670.60	1,438.42	1,391.90	46.52	30.917		
7,900.00	7,372.37	7,331.79	7,331.06	42.23	7.49	52.88	1,410.05	-1,670.51	1,392.23	1,345.62	46.62	29.866		
7,950.00	7,381.97	7,340.95	7,340.22	42.25	7.48	61.90	1,409.99	-1,670.44	1,345.05	1,298.35	46.70	28.802		
8,000.00	7,387.85	7,346.45	7,345.72	42.26	7.48	74.21	1,409.96	-1,670.40	1,297.15	1,250.38	46.78	27.731		
8,053.41	7,390.00	7,348.23	7,347.50	42.28	7.48	91.03	1,409.95	-1,670.39	1,245.51	1,198.66	46.85	26.585		
8,100.00	7,390.00	7,347.94	7,347.21	42.29	7.48	90.98	1,409.95	-1,670.39	1,200.40	1,153.49	46.91	25.587		
8,200.00	7,390.00	7,347.32	7,346.59	42.35	7.48	90.86	1,409.95	-1,670.40	1,103.99	1,056.92	47.06	23.457		
8,300.00	7,390.00	7,346.69	7,345.96	42.44	7.48	90.74	1,409.96	-1,670.40	1,008.28	961.04	47.24	21.345		
8,400.00	7,390.00	7,346.06	7,345.33	42.59	7.48	90.63	1,409.96	-1,670.41	913.48	866.04	47.44	19.255		
8,500.00	7,390.00	7,345.43	7,344.70	42.77	7.48	90.51	1,409.96	-1,670.41	819.92	772.25	47.68	17.197		
8,600.00	7,390.00	7,344.80	7,344.07	43.01	7.48	90.39	1,409.97	-1,670.41	728.08	680.13	47.96	15.183		
8,700.00	7,390.00	7,344.16	7,343.43	43.30	7.48	90.27	1,409.97	-1,670.42	638.70	590.42	48.27	13.231		
8,800.00	7,390.00	7,343.52	7,342.79	43.65	7.48	90.15	1,409.98	-1,670.42	552.95	504.34	48.62	11.374		
8,900.00	7,390.00	7,342.88	7,342.15	44.05	7.48	90.03	1,409.98	-1,670.43	472.85	423.91	48.93	9.664		
9,000.00	7,390.00	7,342.24	7,341.51	44.52	7.48	89.91	1,409.99	-1,670.43	401.75	352.70	49.05	8.191		
9,100.00	7,390.00	7,341.60	7,340.87	45.04	7.48	89.79	1,409.99	-1,670.44	345.30	296.71	48.59	7.107		
9,200.00	7,390.00	7,340.96	7,340.23	45.63	7.48	89.67	1,409.99	-1,670.44	311.53	264.53	47.00	6.628 SF		
9,260.89	7,390.00	7,340.56	7,339.83	46.02	7.48	89.60	1,410.00	-1,670.44	305.53	260.03	45.49	6.716 CC, ES		
9,300.00	7,390.00	7,340.31	7,339.58	46.28	7.48	89.55	1,410.00	-1,670.45	308.02	263.57	44.45	6.930		
9,400.00	7,390.00	7,339.66	7,338.93	46.98	7.48	89.43	1,410.00	-1,670.45	335.70	293.41	42.29	7.938		
9,500.00	7,390.00	7,339.01	7,338.28	47.74	7.48	89.30	1,410.01	-1,670.45	387.96	346.61	41.36	9.381		
9,600.00	7,390.00	7,338.36	7,337.63	48.56	7.48	89.18	1,410.01	-1,670.46	456.44	415.15	41.28	11.056		
9,700.00	7,390.00	7,337.70	7,336.97	49.42	7.48	89.06	1,410.01	-1,670.46	534.93	493.38	41.56	12.872		
9,800.00	7,390.00	7,337.05	7,336.32	50.33	7.49	88.94	1,410.02	-1,670.47	619.65	577.74	41.92	14.783		
9,900.00	7,390.00	7,336.39	7,335.66	51.29	7.49	88.81	1,410.02	-1,670.47	708.37	666.11	42.26	16.760		
10,000.00	7,390.00	7,335.73	7,335.00	52.28	7.49	88.69	1,410.03	-1,670.48	799.75	757.18	42.58	18.784		
10,100.00	7,390.00	7,335.07	7,334.34	53.31	7.49	88.56	1,410.03	-1,670.48	892.98	850.14	42.85	20.842		
10,200.00	7,390.00	7,334.40	7,333.67	54.37	7.49	88.44	1,410.04	-1,670.49	987.54	944.46	43.08	22.924		
10,300.00	7,390.00	7,333.74	7,333.01	55.46	7.49	88.32	1,410.04	-1,670.49	1,083.07	1,039.79	43.28	25.025		
10,400.00	7,390.00	7,333.07	7,332.34	56.58	7.49	88.19	1,410.05	-1,670.50	1,179.35	1,135.89	43.46	27.138		
10,500.00	7,390.00	7,332.40	7,331.67	57.73	7.49	88.06	1,410.05	-1,670.50	1,276.19	1,232.58	43.61	29.262		
10,600.00	7,390.00	7,331.72	7,331.00	58.90	7.49	87.94	1,410.05	-1,670.51	1,373.49	1,329.74	43.75	31.393		
10,700.00	7,390.00	7,331.05	7,330.32	60.09	7.49	87.81	1,410.06	-1,670.51	1,471.15	1,427.28	43.88	33.530		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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	108.79	-14.69	43.17	52.49				
100.00	100.00	73.77	73.77	0.14	0.13	109.02	-14.92	43.28	45.78	45.51	0.27	169.478 CC	
200.00	200.00	173.82	173.81	0.50	0.30	109.89	-15.75	43.55	46.31	45.51	0.80	57.807	
300.00	300.00	273.87	273.87	0.85	0.48	110.80	-16.55	43.57	46.61	45.27	1.33	34.933 ES	
400.00	399.98	373.96	373.96	1.20	0.65	-146.42	-16.95	43.60	48.23	46.37	1.86	25.952	
500.00	499.84	473.69	473.68	1.56	0.83	-149.26	-17.20	43.60	52.74	50.36	2.38	22.125	
600.00	599.45	573.19	573.18	1.92	1.00	-152.89	-17.82	43.83	60.76	57.85	2.92	20.829 SF	
700.00	698.70	672.38	672.37	2.29	1.18	-156.74	-18.48	44.15	72.26	68.80	3.46	20.910	
800.00	797.47	771.34	771.33	2.69	1.35	-160.14	-19.38	44.37	87.18	83.18	4.00	21.803	
900.00	895.62	870.21	870.18	3.11	1.52	-162.84	-20.71	44.10	105.15	100.60	4.55	23.134	
1,000.00	993.06	968.06	968.03	3.57	1.69	-165.54	-21.13	43.37	126.12	121.03	5.09	24.766	
1,100.00	1,089.64	1,064.78	1,064.74	4.06	1.86	-167.90	-21.09	42.62	150.62	144.98	5.64	26.703	
1,155.17	1,142.53	1,117.68	1,117.65	4.35	1.95	-168.99	-21.06	42.25	165.66	159.72	5.95	27.862	
1,200.00	1,185.37	1,160.48	1,160.45	4.59	2.03	-169.80	-21.07	41.97	178.36	172.17	6.19	28.814	
1,300.00	1,280.95	1,256.31	1,256.27	5.14	2.20	-171.22	-21.17	41.42	206.85	200.12	6.73	30.729	
1,400.00	1,376.53	1,352.28	1,352.24	5.71	2.36	-172.28	-21.37	40.75	235.30	228.02	7.28	32.335	
1,500.00	1,472.11	1,448.24	1,448.20	6.28	2.53	-173.14	-21.45	40.04	263.78	255.95	7.83	33.709	
1,600.00	1,567.68	1,544.18	1,544.13	6.86	2.70	-173.82	-21.62	39.25	292.21	283.83	8.38	34.887	
1,700.00	1,663.26	1,640.21	1,640.16	7.45	2.87	-174.36	-21.86	38.47	320.67	311.74	8.93	35.914	
1,800.00	1,758.84	1,736.88	1,736.82	8.03	3.04	-174.81	-22.12	37.50	348.98	339.49	9.49	36.785	
1,900.00	1,854.42	1,833.78	1,833.71	8.63	3.21	-175.22	-22.33	36.30	377.08	367.03	10.05	37.530	
2,000.00	1,949.99	1,931.07	1,931.00	9.22	3.38	-175.62	-22.24	34.73	404.89	394.28	10.61	38.160	
2,100.00	2,045.57	2,027.73	2,027.63	9.82	3.55	-176.01	-21.86	32.85	432.45	421.27	11.17	38.712	
2,200.00	2,141.15	2,122.57	2,122.46	10.41	3.71	-176.41	-21.02	31.04	460.15	448.43	11.72	39.254	
2,300.00	2,236.73	2,217.46	2,217.32	11.01	3.88	-176.80	-19.87	29.40	488.09	475.81	12.27	39.765	
2,400.00	2,332.30	2,312.04	2,311.88	11.61	4.05	-177.15	-18.61	28.04	516.34	503.51	12.83	40.259	
2,500.00	2,427.88	2,410.39	2,410.22	12.21	4.22	-177.44	-17.62	26.54	544.46	531.06	13.40	40.637	
2,600.00	2,523.46	2,508.20	2,508.01	12.82	4.39	-177.67	-17.09	24.74	572.21	558.25	13.97	40.965	
2,700.00	2,619.04	2,604.60	2,604.39	13.42	4.56	-177.85	-16.73	22.82	599.81	585.28	14.53	41.275	
2,800.00	2,714.61	2,700.68	2,700.45	14.02	4.73	-178.03	-16.32	20.89	627.39	612.29	15.09	41.564	
2,900.00	2,810.19	2,797.69	2,797.44	14.63	4.90	-178.19	-15.89	18.86	654.91	639.25	15.66	41.815	
3,000.00	2,905.77	2,895.06	2,894.78	15.23	5.08	-178.33	-15.62	16.70	682.28	666.05	16.23	42.033	
3,100.00	3,001.35	2,990.49	2,990.18	15.84	5.25	-178.46	-15.41	14.56	709.61	692.82	16.79	42.259	
3,200.00	3,096.92	3,085.79	3,085.46	16.44	5.41	-178.59	-14.92	12.47	737.07	719.71	17.35	42.479	
3,300.00	3,192.50	3,182.94	3,182.58	17.05	5.59	-178.74	-14.21	10.31	764.53	746.61	17.92	42.661	
3,400.00	3,288.08	3,275.37	3,274.99	17.65	5.75	-178.87	-13.38	8.30	792.09	773.62	18.47	42.896	
3,500.00	3,383.66	3,365.81	3,365.41	18.26	5.91	-179.03	-12.09	6.81	820.25	801.25	19.00	43.175	
3,600.00	3,479.23	3,458.94	3,458.52	18.87	6.07	-179.21	-10.20	5.71	848.98	829.43	19.55	43.434	
3,700.00	3,574.81	3,556.68	3,556.23	19.47	6.25	-179.38	-8.24	4.59	877.74	857.62	20.12	43.624	
3,800.00	3,670.39	3,654.51	3,654.03	20.08	6.42	-179.53	-6.52	3.19	906.19	885.49	20.70	43.785	
3,900.00	3,765.97	3,750.79	3,750.28	20.69	6.59	-179.67	-4.87	1.73	934.56	913.30	21.26	43.952	
4,000.00	3,861.54	3,844.67	3,844.14	21.30	6.76	-179.80	-3.28	0.33	962.95	941.13	21.82	44.138	
4,100.00	3,957.12	3,941.68	3,941.14	21.90	6.93	-179.91	-1.80	-0.80	991.62	969.23	22.39	44.293	
4,200.00	4,052.70	4,040.60	4,040.04	22.51	7.10	-179.99	-0.71	-2.44	1,019.73	996.76	22.97	44.393	
4,300.00	4,148.28	4,133.05	4,132.47	23.12	7.27	-179.91	0.64	-3.76	1,048.13	1,024.61	23.52	44.570	
4,400.00	4,243.85	4,230.09	4,229.49	23.73	7.44	-179.82	2.16	-5.18	1,076.53	1,052.44	24.09	44.690	
4,500.00	4,339.43	4,324.35	4,323.72	24.34	7.61	-179.72	3.79	-6.59	1,104.94	1,080.29	24.65	44.833	
4,600.00	4,435.01	4,416.58	4,415.93	24.95	7.77	-179.62	5.48	-7.69	1,133.66	1,108.47	25.19	45.002	
4,700.00	4,530.59	4,515.21	4,514.52	25.55	7.95	-179.51	7.71	-9.01	1,162.34	1,136.57	25.77	45.097	
4,800.00	4,626.16	4,610.39	4,609.66	26.16	8.12	-179.38	10.11	-10.42	1,190.96	1,164.62	26.34	45.219	
4,900.00	4,721.74	4,705.57	4,704.80	26.77	8.29	-179.26	12.68	-11.82	1,219.63	1,192.73	26.90	45.336	
5,000.00	4,817.32	4,800.00	4,799.17	27.38	8.46	-179.13	15.50	-13.27	1,248.32	1,220.86	27.46	45.455	

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 4B-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 4B-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 #4	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							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	4,912.90	4,893.86	4,892.96	27.99	8.62	178.98	18.87	-14.73	1,277.14	1,249.12	28.02	45.577					
5,200.00	5,008.47	4,992.79	4,991.79	28.60	8.81	178.80	22.94	-16.38	1,305.99	1,277.38	28.61	45.646					
5,300.00	5,104.05	5,083.04	5,081.95	29.21	8.97	178.65	26.62	-17.84	1,334.89	1,305.74	29.15	45.794					
5,400.00	5,199.63	5,179.97	5,178.80	29.82	9.14	178.51	30.33	-19.11	1,364.02	1,334.30	29.73	45.884					
5,500.00	5,295.21	5,283.96	5,282.73	30.43	9.33	178.39	33.64	-20.68	1,392.81	1,362.47	30.34	45.900					
5,600.00	5,390.78	5,375.40	5,374.13	31.03	9.50	178.31	35.93	-22.15	1,421.36	1,390.47	30.89	46.014					
5,700.00	5,486.36	5,462.35	5,461.04	31.64	9.65	178.24	38.36	-23.14	1,450.40	1,418.99	31.41	46.179					
5,800.00	5,581.94	5,557.20	5,555.84	32.25	9.82	178.15	41.22	-23.81	1,479.91	1,447.93	31.97	46.286					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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	
2,100.00	2,045.57	1,921.78	1,898.79	9.82	5.47	26.68	232.20	-1,837.66	1,485.12	1,471.80	13.32	111.494	
2,200.00	2,141.15	1,992.02	1,967.05	10.41	5.77	27.65	248.60	-1,839.99	1,467.36	1,453.28	14.07	104.271	
2,300.00	2,236.73	2,069.61	2,042.46	11.01	6.11	28.72	266.54	-1,843.50	1,451.44	1,436.60	14.84	97.782	
2,400.00	2,332.30	2,160.89	2,131.32	11.61	6.50	29.96	286.74	-1,848.68	1,437.09	1,421.42	15.66	91.754	
2,500.00	2,427.88	2,257.12	2,224.98	12.21	6.91	31.30	308.26	-1,853.55	1,423.05	1,406.54	16.51	86.218	
2,600.00	2,523.46	2,356.36	2,321.64	12.82	7.33	32.70	330.18	-1,858.70	1,409.87	1,392.51	17.36	81.234	
2,700.00	2,619.04	2,473.48	2,436.07	13.42	7.79	34.34	354.60	-1,863.83	1,396.39	1,378.14	18.25	76.511	
2,800.00	2,714.61	2,580.50	2,540.91	14.02	8.20	35.84	375.78	-1,867.49	1,382.52	1,363.40	19.11	72.331	
2,900.00	2,810.19	2,686.53	2,644.75	14.63	8.63	37.39	397.06	-1,869.46	1,368.18	1,348.18	20.00	68.409	
3,000.00	2,905.77	2,764.74	2,720.94	15.23	8.97	38.64	414.71	-1,870.06	1,354.90	1,334.09	20.81	65.097	
3,100.00	3,001.35	2,842.01	2,795.93	15.84	9.31	39.93	433.29	-1,871.41	1,344.04	1,322.42	21.62	62.170	
3,200.00	3,096.92	2,942.01	2,893.18	16.44	9.74	41.57	456.50	-1,873.40	1,334.14	1,311.64	22.50	59.293	
3,300.00	3,192.50	3,034.19	2,982.98	17.05	10.13	43.08	477.23	-1,875.42	1,325.16	1,301.81	23.34	56.766	
3,400.00	3,288.08	3,131.11	3,077.33	17.65	10.55	44.70	499.28	-1,877.27	1,317.17	1,292.95	24.22	54.388	
3,500.00	3,383.66	3,237.86	3,181.00	18.26	11.03	46.58	524.75	-1,877.54	1,309.63	1,284.48	25.15	52.071	
3,600.00	3,479.23	3,326.14	3,266.79	18.87	11.40	48.16	545.56	-1,877.25	1,302.74	1,276.77	25.98	50.151	
3,700.00	3,574.81	3,423.51	3,361.74	19.47	11.80	49.84	567.13	-1,878.05	1,297.13	1,270.31	26.82	48.363	
3,800.00	3,670.39	3,511.51	3,447.69	20.08	12.16	51.33	585.94	-1,879.17	1,292.55	1,264.95	27.61	46.821	
3,900.00	3,765.97	3,654.92	3,588.38	20.69	12.68	53.75	613.74	-1,879.16	1,286.74	1,258.14	28.60	44.996	
4,000.00	3,861.54	3,752.97	3,684.88	21.30	13.01	55.38	631.04	-1,878.38	1,280.64	1,251.24	29.39	43.572	
4,100.00	3,957.12	3,865.85	3,796.39	21.90	13.35	57.17	648.48	-1,878.60	1,274.86	1,244.67	30.19	42.227	
4,200.00	4,052.70	3,976.95	3,906.63	22.51	13.64	58.81	662.22	-1,879.82	1,268.54	1,237.59	30.95	40.989	
4,300.00	4,148.28	4,090.28	4,019.39	23.12	13.90	60.40	673.47	-1,881.55	1,261.62	1,229.93	31.69	39.812	
4,400.00	4,243.85	4,200.45	4,129.15	23.73	14.13	61.94	682.92	-1,882.72	1,254.21	1,221.79	32.42	38.689	
4,500.00	4,339.43	4,308.28	4,236.68	24.34	14.34	63.45	690.90	-1,883.48	1,246.47	1,213.34	33.13	37.618	
4,600.00	4,435.01	4,417.04	4,345.24	24.95	14.53	64.94	697.51	-1,884.16	1,238.45	1,204.61	33.84	36.595	
4,700.00	4,530.59	4,554.87	4,482.95	25.55	14.72	66.79	702.81	-1,884.90	1,229.58	1,195.03	34.55	35.588	
4,800.00	4,626.16	4,649.99	4,578.06	26.16	14.83	68.06	704.42	-1,884.55	1,219.03	1,183.79	35.24	34.592	
4,900.00	4,721.74	4,743.07	4,671.12	26.77	14.95	69.33	706.24	-1,884.30	1,209.39	1,173.45	35.94	33.653	
5,000.00	4,817.32	4,837.32	4,765.35	27.38	15.07	70.63	708.15	-1,884.00	1,200.48	1,163.84	36.64	32.768	
5,100.00	4,912.90	4,928.42	4,856.43	27.99	15.19	71.91	710.14	-1,883.91	1,192.49	1,155.16	37.34	31.940	
5,200.00	5,008.47	5,020.42	4,948.40	28.60	15.31	73.19	712.31	-1,884.17	1,185.54	1,147.51	38.04	31.168	
5,300.00	5,104.05	5,115.09	5,043.04	29.21	15.44	74.52	714.53	-1,884.74	1,179.45	1,140.71	38.74	30.444	
5,400.00	5,199.63	5,210.20	5,138.12	29.82	15.57	75.85	716.69	-1,885.59	1,174.12	1,134.67	39.45	29.763	
5,500.00	5,295.21	5,305.85	5,233.75	30.43	15.70	77.20	718.80	-1,886.60	1,169.51	1,129.35	40.16	29.120	
5,600.00	5,390.78	5,403.90	5,331.77	31.03	15.82	78.57	720.84	-1,887.74	1,165.55	1,124.67	40.88	28.513	
5,700.00	5,486.36	5,503.89	5,431.74	31.64	15.95	79.98	722.52	-1,889.01	1,161.98	1,120.38	41.60	27.934	
5,800.00	5,581.94	5,600.56	5,528.39	32.25	16.07	81.33	723.84	-1,890.36	1,158.87	1,116.55	42.32	27.384	
5,900.00	5,677.52	5,696.55	5,624.36	32.86	16.19	82.67	725.06	-1,891.89	1,156.43	1,113.39	43.04	26.867	
6,000.00	5,773.09	5,793.31	5,721.09	33.47	16.31	83.99	726.08	-1,893.90	1,154.65	1,110.88	43.76	26.383	
6,100.00	5,868.67	5,889.42	5,817.16	34.08	16.43	85.28	726.78	-1,896.62	1,153.45	1,108.96	44.49	25.925	
6,182.01	5,947.05	5,964.45	5,892.16	34.58	16.53	86.28	727.45	-1,898.85	1,153.10	1,108.01	45.09	25.574	
6,200.00	5,964.25	5,980.90	5,908.60	34.69	16.56	86.50	727.64	-1,899.32	1,153.12	1,107.90	45.22	25.501	
6,300.00	6,059.83	6,075.82	6,003.47	35.30	16.68	87.79	728.98	-1,901.91	1,153.79	1,107.83	45.95	25.108	
6,400.00	6,155.40	6,179.75	6,107.38	35.91	16.81	89.23	730.26	-1,903.85	1,154.73	1,108.03	46.70	24.726	
6,500.00	6,250.98	6,280.03	6,207.65	36.52	16.93	90.66	731.13	-1,904.72	1,155.80	1,108.36	47.44	24.363	
6,600.00	6,346.56	6,377.92	6,305.54	37.13	17.05	92.08	731.87	-1,905.01	1,157.37	1,109.20	48.18	24.023	
6,700.00	6,442.14	6,472.88	6,400.49	37.74	17.17	93.47	732.56	-1,904.95	1,159.60	1,110.70	48.91	23.711	
6,800.00	6,537.71	6,567.21	6,494.82	38.35	17.29	94.85	733.34	-1,904.92	1,162.68	1,113.05	49.63	23.428	
6,900.00	6,633.29	6,662.78	6,590.39	38.96	17.41	96.23	734.17	-1,904.89	1,166.55	1,116.20	50.35	23.171	
7,008.07	6,736.58	6,766.25	6,693.85	39.62	17.54	97.72	735.07	-1,904.80	1,171.54	1,120.43	51.11	22.920	
7,050.00	6,776.72	6,806.72	6,734.32	39.87	17.60	85.92	735.41	-1,904.73	1,172.33	1,120.92	51.41	22.803	

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - Sullivan 4-6-26 - CPR WELL - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 74-Geolink MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
7,100.00	6,824.59	6,854.98	6,782.58	40.15	17.66	71.79	735.80	-1,904.61	1,169.81	1,118.06	51.75	22.603		
7,150.00	6,872.19	6,902.97	6,830.56	40.42	17.72	59.33	736.18	-1,904.44	1,163.55	1,111.46	52.09	22.338		
7,200.00	6,919.22	6,949.55	6,877.15	40.67	17.78	49.38	736.54	-1,904.25	1,153.59	1,101.18	52.41	22.012		
7,250.00	6,965.38	6,994.90	6,922.49	40.90	17.84	41.86	736.93	-1,904.12	1,140.01	1,087.29	52.71	21.626		
7,300.00	7,010.41	7,039.20	6,966.79	41.10	17.90	36.28	737.34	-1,904.02	1,122.88	1,069.87	53.00	21.185		
7,350.00	7,054.01	7,082.20	7,009.79	41.29	17.95	32.17	737.76	-1,903.98	1,102.30	1,049.01	53.28	20.688		
7,400.00	7,095.93	7,123.95	7,051.54	41.46	18.01	29.17	738.20	-1,903.95	1,078.36	1,024.82	53.54	20.140		
7,450.00	7,135.90	7,163.94	7,091.52	41.60	18.06	27.01	738.63	-1,903.90	1,051.20	997.41	53.79	19.542		
7,500.00	7,173.67	7,201.77	7,129.35	41.73	18.11	25.52	739.05	-1,903.81	1,020.97	966.95	54.02	18.898		
7,550.00	7,209.02	7,237.23	7,164.81	41.84	18.16	24.59	739.45	-1,903.71	987.84	933.60	54.24	18.212		
7,600.00	7,241.72	7,270.09	7,197.67	41.94	18.21	24.16	739.82	-1,903.59	952.01	897.57	54.44	17.487		
7,650.00	7,271.57	7,300.14	7,227.71	42.02	18.25	24.23	740.17	-1,903.46	913.68	859.05	54.63	16.726		
7,700.00	7,298.40	7,327.22	7,254.79	42.08	18.28	24.82	740.49	-1,903.34	873.07	818.28	54.80	15.933		
7,750.00	7,322.02	7,351.17	7,278.74	42.13	18.32	26.04	740.78	-1,903.23	830.43	775.48	54.95	15.112		
7,800.00	7,342.31	7,371.84	7,299.41	42.17	18.35	28.08	741.04	-1,903.13	786.00	730.90	55.09	14.267		
7,850.00	7,359.13	7,389.11	7,316.68	42.21	18.37	31.32	741.25	-1,903.05	740.03	684.81	55.22	13.402		
7,900.00	7,372.37	7,402.85	7,330.42	42.23	18.39	36.45	741.42	-1,902.98	692.81	637.48	55.33	12.521		
7,950.00	7,381.97	7,413.00	7,340.56	42.25	18.40	44.86	741.55	-1,902.92	644.60	589.16	55.44	11.628		
8,000.00	7,387.85	7,419.47	7,347.03	42.26	18.41	59.19	741.63	-1,902.89	595.68	540.15	55.53	10.727		
8,053.41	7,390.00	7,422.27	7,349.84	42.28	18.41	84.75	741.67	-1,902.88	542.97	487.35	55.62	9.762		
8,100.00	7,390.00	7,422.86	7,350.43	42.29	18.42	85.17	741.67	-1,902.87	496.92	441.22	55.70	8.921		
8,200.00	7,390.00	7,424.13	7,351.70	42.35	18.42	86.09	741.69	-1,902.87	398.51	342.59	55.93	7.126		
8,300.00	7,390.00	7,425.41	7,352.97	42.44	18.42	87.01	741.71	-1,902.86	301.16	244.90	56.26	5.353		
8,400.00	7,390.00	7,426.68	7,354.24	42.59	18.42	87.93	741.72	-1,902.85	206.34	149.59	56.75	3.636		
8,500.00	7,390.00	7,427.96	7,355.52	42.77	18.42	88.86	741.74	-1,902.85	120.21	63.35	56.86	2.114		
8,590.64	7,390.00	7,429.11	7,356.68	42.99	18.42	89.70	741.75	-1,902.84	78.96	28.10	50.87	1.552	CC, ES, SF	
8,600.00	7,390.00	7,429.23	7,356.80	43.01	18.42	89.79	741.75	-1,902.84	79.52	29.45	50.06	1.588		
8,700.00	7,390.00	7,430.51	7,358.08	43.30	18.43	90.72	741.77	-1,902.83	134.88	84.40	50.47	2.672		
8,800.00	7,390.00	7,431.80	7,359.36	43.65	18.43	91.65	741.79	-1,902.83	223.74	171.57	52.17	4.289		
8,900.00	7,390.00	7,433.08	7,360.64	44.05	18.43	92.58	741.80	-1,902.82	319.25	266.29	52.96	6.028		
9,000.00	7,390.00	7,434.37	7,361.93	44.52	18.43	93.51	741.82	-1,902.81	416.87	363.47	53.40	7.806		
9,100.00	7,390.00	7,435.65	7,363.22	45.04	18.43	94.43	741.84	-1,902.80	515.40	461.72	53.68	9.602		
9,200.00	7,390.00	7,436.94	7,364.51	45.63	18.43	95.36	741.85	-1,902.80	614.40	560.53	53.87	11.406		
9,300.00	7,390.00	7,438.24	7,365.80	46.28	18.44	96.29	741.87	-1,902.79	713.68	659.67	54.01	13.214		
9,400.00	7,390.00	7,439.53	7,367.09	46.98	18.44	97.21	741.89	-1,902.78	813.13	759.01	54.12	15.025		
9,500.00	7,390.00	7,440.83	7,368.39	47.74	18.44	98.14	741.90	-1,902.78	912.70	858.50	54.21	16.838		
9,600.00	7,390.00	7,442.12	7,369.69	48.56	18.44	99.06	741.92	-1,902.77	1,012.36	958.08	54.28	18.651		
9,700.00	7,390.00	7,443.42	7,370.99	49.42	18.44	99.97	741.94	-1,902.76	1,112.07	1,057.73	54.34	20.464		
9,800.00	7,390.00	7,444.73	7,372.29	50.33	18.45	100.88	741.95	-1,902.76	1,211.83	1,157.43	54.40	22.277		
9,900.00	7,390.00	7,446.03	7,373.59	51.29	18.45	101.79	741.97	-1,902.75	1,311.63	1,257.18	54.45	24.089		
10,000.00	7,390.00	7,447.34	7,374.90	52.28	18.45	102.69	741.99	-1,902.74	1,411.45	1,356.95	54.49	25.901		

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - SULLIVAN 4A-26H-P268 - OH - PLAN #4												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.32	-0.06	-10.07	10.07				
100.00	100.00	100.00	100.00	0.14	0.14	-90.32	-0.06	-10.07	10.07	9.79	0.28	36.483	
200.00	200.00	200.00	200.00	0.50	0.50	-90.32	-0.06	-10.07	10.07	9.08	0.99	10.142 CC, ES	
300.00	300.00	299.62	299.60	0.85	0.85	-92.69	-0.55	-11.73	11.75	10.01	1.74	6.751	
400.00	399.98	399.11	398.95	1.20	1.20	7.30	-2.03	-16.70	15.12	12.62	2.50	6.040	
500.00	499.84	498.47	497.93	1.56	1.56	4.51	-4.50	-24.96	18.49	15.22	3.27	5.652	
600.00	599.45	597.72	596.44	1.92	1.94	2.10	-7.94	-36.48	21.86	17.81	4.05	5.401	
700.00	698.70	696.84	694.36	2.29	2.34	-0.08	-12.34	-51.25	25.22	20.39	4.82	5.229	
800.00	797.47	795.85	791.57	2.69	2.77	-2.12	-17.71	-69.24	28.57	22.97	5.60	5.103	
900.00	895.62	894.75	887.96	3.11	3.22	-4.05	-24.03	-90.40	31.93	25.55	6.37	5.009	
1,000.00	993.06	993.53	983.42	3.57	3.72	-5.91	-31.28	-114.71	35.28	28.13	7.15	4.933	
1,100.00	1,089.64	1,092.57	1,078.24	4.06	4.25	-7.74	-39.45	-142.11	38.51	30.59	7.92	4.864	
1,155.17	1,142.53	1,147.73	1,130.92	4.35	4.56	-8.89	-44.14	-157.81	39.31	30.98	8.32	4.723	
1,200.00	1,185.37	1,192.55	1,173.71	4.59	4.81	-9.90	-47.94	-170.57	39.54	30.88	8.66	4.566	
1,300.00	1,280.95	1,292.54	1,269.19	5.14	5.39	-12.10	-56.44	-199.02	40.11	30.68	9.43	4.254	
1,400.00	1,376.53	1,392.53	1,364.66	5.71	5.97	-14.24	-64.93	-227.48	40.73	30.51	10.22	3.985	
1,500.00	1,472.11	1,492.51	1,460.14	6.28	6.56	-16.32	-73.42	-255.94	41.41	30.37	11.04	3.750	
1,600.00	1,567.68	1,592.50	1,555.61	6.86	7.15	-18.32	-81.91	-284.40	42.14	30.26	11.89	3.545	
1,700.00	1,663.26	1,692.49	1,651.09	7.45	7.74	-20.25	-90.40	-312.86	42.93	30.17	12.76	3.365	
1,800.00	1,758.84	1,792.47	1,746.56	8.03	8.34	-22.11	-98.89	-341.32	43.76	30.10	13.65	3.204	
1,900.00	1,854.42	1,892.46	1,842.04	8.63	8.94	-23.90	-107.38	-369.77	44.63	30.05	14.58	3.062	
2,000.00	1,949.99	1,992.45	1,937.51	9.22	9.54	-25.62	-115.87	-398.23	45.54	30.02	15.52	2.934	
2,100.00	2,045.57	2,092.43	2,032.98	9.82	10.15	-27.27	-124.36	-426.69	46.50	30.01	16.49	2.820	
2,200.00	2,141.15	2,192.42	2,128.46	10.41	10.75	-28.86	-132.86	-455.15	47.49	30.01	17.48	2.717	
2,300.00	2,236.73	2,292.41	2,223.93	11.01	11.36	-30.37	-141.35	-483.61	48.52	30.03	18.49	2.624	
2,400.00	2,332.30	2,392.39	2,319.41	11.61	11.96	-31.83	-149.84	-512.07	49.58	30.06	19.52	2.540	
2,500.00	2,427.88	2,492.38	2,414.88	12.21	12.57	-33.22	-158.33	-540.52	50.67	30.10	20.57	2.464	
2,600.00	2,523.46	2,592.37	2,510.36	12.82	13.18	-34.55	-166.82	-568.98	51.79	30.16	21.63	2.394	
2,700.00	2,619.04	2,692.35	2,605.83	13.42	13.79	-35.83	-175.31	-597.44	52.93	30.22	22.71	2.331	
2,800.00	2,714.61	2,792.34	2,701.30	14.02	14.39	-37.05	-183.80	-625.90	54.10	30.30	23.80	2.273	
2,900.00	2,810.19	2,892.33	2,796.78	14.63	15.00	-38.22	-192.29	-654.36	55.29	30.39	24.91	2.220	
3,000.00	2,905.77	2,992.31	2,892.25	15.23	15.61	-39.34	-200.78	-682.82	56.51	30.49	26.02	2.172	
3,100.00	3,001.35	3,092.30	2,987.73	15.84	16.22	-40.41	-209.28	-711.27	57.75	30.60	27.15	2.127	
3,200.00	3,096.92	3,192.29	3,083.20	16.44	16.83	-41.43	-217.77	-739.73	59.00	30.71	28.29	2.086	
3,300.00	3,192.50	3,292.27	3,178.68	17.05	17.44	-42.42	-226.26	-768.19	60.28	30.84	29.43	2.048	
3,400.00	3,288.08	3,392.26	3,274.15	17.65	18.05	-43.36	-234.75	-796.65	61.57	30.98	30.59	2.013	
3,500.00	3,383.66	3,492.25	3,369.62	18.26	18.66	-44.26	-243.24	-825.11	62.87	31.13	31.75	1.980	
3,600.00	3,479.23	3,592.23	3,465.10	18.87	19.27	-45.13	-251.73	-853.57	64.20	31.28	32.91	1.950	
3,700.00	3,574.81	3,692.22	3,560.57	19.47	19.89	-45.96	-260.22	-882.02	65.53	31.45	34.09	1.923	
3,800.00	3,670.39	3,792.21	3,656.05	20.08	20.50	-46.76	-268.71	-910.48	66.88	31.62	35.26	1.897	
3,900.00	3,765.97	3,892.19	3,751.52	20.69	21.11	-47.52	-277.20	-938.94	68.24	31.80	36.45	1.872	
4,000.00	3,861.54	3,992.18	3,847.00	21.30	21.72	-48.26	-285.70	-967.40	69.62	31.99	37.63	1.850	
4,100.00	3,957.12	4,092.17	3,942.47	21.90	22.33	-48.97	-294.19	-995.86	71.00	32.18	38.82	1.829	
4,200.00	4,052.70	4,192.15	4,037.95	22.51	22.94	-49.65	-302.68	-1,024.32	72.40	32.38	40.01	1.809	
4,300.00	4,148.28	4,292.14	4,133.42	23.12	23.55	-50.30	-311.17	-1,052.77	73.80	32.59	41.21	1.791	
4,400.00	4,243.85	4,392.13	4,228.89	23.73	24.17	-50.93	-319.66	-1,081.23	75.21	32.80	42.41	1.774	
4,500.00	4,339.43	4,492.11	4,324.37	24.34	24.78	-51.54	-328.15	-1,109.69	76.64	33.03	43.61	1.757	
4,600.00	4,435.01	4,592.10	4,419.84	24.95	25.39	-52.12	-336.64	-1,138.15	78.07	33.25	44.81	1.742	
4,700.00	4,530.59	4,692.09	4,515.32	25.55	26.00	-52.68	-345.13	-1,166.61	79.51	33.49	46.02	1.728	
4,800.00	4,626.16	4,792.07	4,610.79	26.16	26.61	-53.23	-353.62	-1,195.07	80.95	33.73	47.23	1.714	
4,900.00	4,721.74	4,892.06	4,706.27	26.77	27.23	-53.75	-362.12	-1,223.52	82.41	33.97	48.44	1.701	
5,000.00	4,817.32	4,992.05	4,801.74	27.38	27.84	-54.26	-370.61	-1,251.98	83.87	34.22	49.65	1.689	

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4A-26H-P268 - OH - PLAN #4												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.00	4,912.90	5,092.03	4,897.21	27.99	28.45	-54.75	-379.10	-1,280.44	85.33	34.48	50.86	1.678	
5,200.00	5,008.47	5,192.02	4,992.69	28.60	29.06	-55.22	-387.59	-1,308.90	86.80	34.74	52.07	1.667	
5,300.00	5,104.05	5,292.01	5,088.16	29.21	29.68	-55.67	-396.08	-1,337.36	88.28	35.00	53.28	1.657	
5,400.00	5,199.63	5,391.99	5,183.64	29.82	30.29	-56.12	-404.57	-1,365.82	89.77	35.27	54.50	1.647	
5,500.00	5,295.21	5,491.98	5,279.11	30.43	30.90	-56.54	-413.06	-1,394.27	91.25	35.54	55.71	1.638	
5,600.00	5,390.78	5,591.97	5,374.59	31.03	31.51	-56.96	-421.55	-1,422.73	92.75	35.82	56.93	1.629	
5,700.00	5,486.36	5,691.95	5,470.06	31.64	32.13	-57.36	-430.05	-1,451.19	94.25	36.10	58.14	1.621	
5,800.00	5,581.94	5,791.94	5,565.54	32.25	32.74	-57.74	-438.54	-1,479.65	95.75	36.39	59.36	1.613	
5,900.00	5,677.52	5,891.93	5,661.01	32.86	33.35	-58.12	-447.03	-1,508.11	97.25	36.68	60.58	1.605	
6,000.00	5,773.09	5,991.91	5,756.48	33.47	33.96	-58.48	-455.52	-1,536.57	98.77	36.97	61.80	1.598	
6,100.00	5,868.67	6,091.90	5,851.96	34.08	34.58	-58.84	-464.01	-1,565.02	100.28	37.27	63.01	1.591	
6,200.00	5,964.25	6,191.89	5,947.43	34.69	35.19	-59.18	-472.50	-1,593.48	101.80	37.57	64.23	1.585	
6,300.00	6,059.83	6,291.87	6,042.91	35.30	35.80	-59.51	-480.99	-1,621.94	103.32	37.87	65.45	1.579	
6,400.00	6,155.40	6,391.86	6,138.38	35.91	36.42	-59.83	-489.48	-1,650.40	104.84	38.18	66.67	1.573	
6,500.00	6,250.98	6,491.85	6,233.86	36.52	37.03	-60.15	-497.97	-1,678.86	106.37	38.48	67.89	1.567	
6,600.00	6,346.56	6,591.83	6,329.33	37.13	37.64	-60.45	-506.47	-1,707.32	107.90	38.80	69.11	1.561	
6,700.00	6,442.14	6,691.82	6,424.80	37.74	38.25	-60.75	-514.96	-1,735.77	109.44	39.11	70.33	1.556	
6,800.00	6,537.71	6,791.81	6,520.28	38.35	38.87	-61.04	-523.45	-1,764.23	110.98	39.43	71.55	1.551	
6,900.00	6,633.29	6,891.79	6,615.75	38.96	39.48	-61.32	-531.94	-1,792.69	112.52	39.75	72.77	1.546	
7,008.07	6,736.58	6,999.85	6,718.93	39.62	40.14	-61.61	-541.12	-1,823.45	114.18	40.10	74.08	1.541 SF	
7,050.00	6,776.72	7,041.72	6,758.91	39.87	40.40	-74.23	-544.67	-1,835.36	116.17	41.51	74.66	1.556	
7,100.00	6,824.59	7,091.34	6,806.29	40.15	40.70	-89.64	-548.88	-1,849.49	122.02	46.54	75.48	1.617	
7,150.00	6,872.19	7,140.33	6,853.07	40.42	41.00	-103.60	-553.05	-1,863.43	131.66	55.27	76.40	1.723	
7,200.00	6,919.22	7,188.39	6,898.97	40.67	41.30	-115.15	-557.13	-1,877.11	145.08	67.73	77.35	1.876	
7,250.00	6,965.38	7,235.23	6,943.69	40.90	41.59	-124.27	-561.10	-1,890.44	162.22	83.93	78.29	2.072	
7,300.00	7,010.41	7,297.61	7,003.41	41.10	41.96	-131.71	-563.53	-1,908.20	180.96	101.94	79.02	2.290	
7,350.00	7,054.01	7,363.81	7,066.74	41.29	42.32	-137.44	-559.43	-1,926.94	198.69	119.84	78.85	2.520	
7,400.00	7,095.93	7,433.38	7,132.50	41.46	42.65	-141.91	-547.75	-1,946.30	215.16	137.49	77.66	2.770	
7,450.00	7,135.90	7,506.42	7,199.82	41.60	42.96	-145.45	-527.53	-1,966.00	230.07	154.73	75.34	3.054	
7,500.00	7,173.67	7,582.90	7,267.47	41.73	43.22	-148.26	-497.90	-1,985.67	243.15	171.36	71.79	3.387	
7,550.00	7,209.02	7,662.64	7,333.89	41.84	43.45	-150.53	-458.25	-2,004.83	254.10	187.17	66.94	3.796	
7,600.00	7,241.72	7,745.26	7,397.17	41.94	43.63	-152.35	-408.40	-2,022.91	262.68	201.89	60.78	4.322	
7,650.00	7,271.57	7,830.17	7,455.23	42.02	43.76	-153.81	-348.74	-2,039.31	268.64	215.24	53.40	5.031	
7,700.00	7,298.40	7,916.60	7,506.01	42.08	43.84	-154.96	-280.32	-2,053.43	271.82	226.85	44.97	6.044	
7,750.00	7,322.02	8,003.63	7,547.72	42.13	43.88	-155.85	-204.86	-2,064.76	272.13	236.32	35.81	7.599	
7,800.00	7,342.31	8,090.28	7,579.10	42.17	43.88	-156.50	-124.58	-2,072.95	269.55	243.10	26.45	10.189	
7,850.00	7,359.13	8,175.62	7,599.53	42.21	43.86	-156.94	-41.93	-2,077.86	264.17	246.23	17.94	14.726	
7,900.00	7,372.37	8,258.83	7,609.08	42.23	43.82	-157.18	40.65	-2,079.55	256.12	243.10	13.02	19.674	
7,950.00	7,381.97	8,321.77	7,610.00	42.25	43.79	-157.32	103.57	-2,078.94	246.63	233.26	13.37	18.447	
8,000.00	7,387.85	8,371.37	7,610.00	42.26	43.78	-157.44	153.16	-2,078.25	240.42	226.66	13.77	17.466	
8,053.41	7,390.00	8,424.71	7,610.00	42.28	43.77	-157.52	206.50	-2,077.50	238.09	223.88	14.21	16.755	
8,100.00	7,390.00	8,471.30	7,610.00	42.29	43.77	-157.58	253.08	-2,076.85	237.99	223.36	14.63	16.267	
8,200.00	7,390.00	8,571.30	7,610.00	42.35	43.80	-157.69	353.07	-2,075.46	237.80	222.13	15.66	15.182	
8,300.00	7,390.00	8,671.30	7,610.00	42.44	43.87	-157.81	453.06	-2,074.06	237.60	220.75	16.85	14.099	
8,400.00	7,390.00	8,771.30	7,610.00	42.59	43.98	-157.93	553.05	-2,072.66	237.40	219.24	18.16	13.070	
8,500.00	7,390.00	8,871.29	7,610.00	42.77	44.13	-158.04	653.04	-2,071.27	237.20	217.63	19.57	12.120	
8,600.00	7,390.00	8,971.29	7,610.00	43.01	44.33	-158.16	753.03	-2,069.87	237.01	215.95	21.05	11.257	
8,700.00	7,390.00	9,071.29	7,610.00	43.30	44.59	-158.28	853.02	-2,068.48	236.81	214.22	22.60	10.480	
8,800.00	7,390.00	9,171.29	7,610.00	43.65	44.90	-158.40	953.01	-2,067.08	236.62	212.43	24.19	9.783	
8,900.00	7,390.00	9,271.29	7,610.00	44.05	45.27	-158.52	1,052.99	-2,065.68	236.43	210.62	25.81	9.159	
9,000.00	7,390.00	9,371.29	7,610.00	44.52	45.70	-158.63	1,152.98	-2,064.29	236.24	208.77	27.47	8.601	
9,100.00	7,390.00	9,471.29	7,610.00	45.04	46.19	-158.75	1,252.97	-2,062.89	236.05	206.90	29.15	8.099	

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 4B-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 4B-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 #4	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		
9,200.00	7,390.00	9,571.28	7,610.00	45.63	46.75	-158.87	1,352.96	-2,061.49	235.86	205.01	30.84	7.647		
9,300.00	7,390.00	9,671.28	7,610.00	46.28	47.37	-158.99	1,452.95	-2,060.10	235.67	203.12	32.55	7.239		
9,400.00	7,390.00	9,771.28	7,610.00	46.98	48.06	-159.11	1,552.94	-2,058.70	235.48	201.21	34.28	6.870		
9,500.00	7,390.00	9,871.28	7,610.00	47.74	48.80	-159.23	1,652.93	-2,057.31	235.30	199.29	36.01	6.534		
9,600.00	7,390.00	9,971.28	7,610.00	48.56	49.60	-159.35	1,752.92	-2,055.91	235.11	197.36	37.75	6.228		
9,700.00	7,390.00	10,071.28	7,610.00	49.42	50.45	-159.47	1,852.91	-2,054.51	234.93	195.43	39.49	5.949		
9,800.00	7,390.00	10,171.28	7,610.00	50.33	51.35	-159.59	1,952.89	-2,053.12	234.74	193.50	41.24	5.692		
9,900.00	7,390.00	10,271.27	7,610.00	51.29	52.30	-159.71	2,052.88	-2,051.72	234.56	191.57	42.99	5.456		
10,000.00	7,390.00	10,371.27	7,610.00	52.28	53.28	-159.83	2,152.87	-2,050.32	234.38	189.63	44.75	5.238		
10,100.00	7,390.00	10,471.27	7,610.00	53.31	54.30	-159.95	2,252.86	-2,048.93	234.20	187.70	46.50	5.036		
10,200.00	7,390.00	10,571.27	7,610.00	54.37	55.36	-160.07	2,352.85	-2,047.53	234.02	185.76	48.26	4.850		
10,300.00	7,390.00	10,671.27	7,610.00	55.46	56.44	-160.19	2,452.84	-2,046.14	233.84	183.83	50.01	4.676		
10,400.00	7,390.00	10,771.27	7,610.00	56.58	57.56	-160.31	2,552.83	-2,044.74	233.67	181.90	51.77	4.514		
10,500.00	7,390.00	10,871.27	7,610.00	57.73	58.70	-160.43	2,652.82	-2,043.34	233.49	179.97	53.52	4.363		
10,600.00	7,390.00	10,971.27	7,610.00	58.90	59.86	-160.55	2,752.81	-2,041.95	233.32	178.04	55.27	4.221		
10,700.00	7,390.00	11,071.26	7,610.00	60.09	61.05	-160.67	2,852.79	-2,040.55	233.14	176.12	57.02	4.089		
10,800.00	7,390.00	11,171.26	7,610.00	61.30	62.25	-160.79	2,952.78	-2,039.16	232.97	174.20	58.77	3.964		
10,900.00	7,390.00	11,271.26	7,610.00	62.54	63.48	-160.91	3,052.77	-2,037.76	232.80	172.28	60.52	3.847		
11,000.00	7,390.00	11,371.26	7,610.00	63.78	64.72	-161.04	3,152.76	-2,036.36	232.63	170.36	62.26	3.736		
11,100.00	7,390.00	11,471.26	7,610.00	65.05	65.98	-161.16	3,252.75	-2,034.97	232.46	168.45	64.00	3.632		
11,200.00	7,390.00	11,571.26	7,610.00	66.33	67.25	-161.28	3,352.74	-2,033.57	232.29	166.55	65.74	3.533		
11,300.00	7,390.00	11,671.26	7,610.00	67.62	68.54	-161.40	3,452.73	-2,032.17	232.12	164.64	67.48	3.440		
11,400.00	7,390.00	11,771.25	7,610.00	68.93	69.84	-161.53	3,552.72	-2,030.78	231.95	162.75	69.21	3.352		
11,500.00	7,390.00	11,871.25	7,610.00	70.25	71.15	-161.65	3,652.71	-2,029.38	231.79	160.85	70.94	3.267		
11,600.00	7,390.00	11,971.25	7,610.00	71.58	72.47	-161.77	3,752.69	-2,027.99	231.62	158.96	72.66	3.188		
11,700.00	7,390.00	12,071.25	7,610.00	72.92	73.80	-161.89	3,852.68	-2,026.59	231.46	157.07	74.39	3.112		
11,800.00	7,390.00	12,171.25	7,610.00	74.27	75.15	-162.02	3,952.67	-2,025.19	231.30	155.19	76.11	3.039		
11,900.00	7,390.00	12,271.25	7,610.00	75.63	76.50	-162.14	4,052.66	-2,023.80	231.14	153.32	77.82	2.970		
12,000.00	7,390.00	12,371.25	7,610.00	77.00	77.86	-162.26	4,152.65	-2,022.40	230.98	151.44	79.53	2.904		
12,100.00	7,390.00	12,471.24	7,610.00	78.38	79.23	-162.39	4,252.64	-2,021.00	230.82	149.58	81.24	2.841		
12,200.00	7,390.00	12,571.24	7,610.00	79.76	80.61	-162.51	4,352.63	-2,019.61	230.66	147.71	82.95	2.781		
12,300.00	7,390.00	12,671.24	7,610.00	81.15	81.99	-162.64	4,452.62	-2,018.21	230.50	145.85	84.65	2.723		
12,400.00	7,390.00	12,771.24	7,610.00	82.55	83.39	-162.76	4,552.61	-2,016.82	230.35	144.00	86.35	2.668		
12,500.00	7,390.00	12,871.24	7,610.00	83.96	84.78	-162.89	4,652.59	-2,015.42	230.19	142.15	88.04	2.615		
12,600.00	7,390.00	12,971.24	7,610.00	85.37	86.19	-163.01	4,752.58	-2,014.02	230.04	140.31	89.73	2.564		
12,700.00	7,390.00	13,071.24	7,610.00	86.79	87.60	-163.13	4,852.57	-2,012.63	229.89	138.47	91.42	2.515		
12,800.00	7,390.00	13,171.24	7,610.00	88.21	89.02	-163.26	4,952.56	-2,011.23	229.74	136.63	93.10	2.468		
12,900.00	7,390.00	13,271.23	7,610.00	89.64	90.44	-163.38	5,052.55	-2,009.83	229.59	134.81	94.78	2.422		
13,000.00	7,390.00	13,371.23	7,610.00	91.08	91.86	-163.51	5,152.54	-2,008.44	229.44	132.98	96.46	2.379		
13,100.00	7,390.00	13,471.23	7,610.00	92.52	93.30	-163.64	5,252.53	-2,007.04	229.29	131.16	98.13	2.337		
13,200.00	7,390.00	13,571.23	7,610.00	93.96	94.73	-163.76	5,352.52	-2,005.65	229.14	129.34	99.80	2.296		
13,300.00	7,390.00	13,671.23	7,610.00	95.41	96.17	-163.89	5,452.50	-2,004.25	229.00	127.53	101.46	2.257		
13,400.00	7,390.00	13,771.23	7,610.00	96.86	97.62	-164.01	5,552.49	-2,002.85	228.85	125.73	103.12	2.219		
13,500.00	7,390.00	13,871.23	7,610.00	98.31	99.07	-164.14	5,652.48	-2,001.46	228.71	123.93	104.78	2.183		
13,600.00	7,390.00	13,971.22	7,610.00	99.77	100.52	-164.27	5,752.47	-2,000.06	228.57	122.13	106.43	2.147		
13,700.00	7,390.00	14,071.22	7,610.00	101.24	101.97	-164.39	5,852.46	-1,998.67	228.42	120.34	108.08	2.113		
13,800.00	7,390.00	14,171.22	7,610.00	102.70	103.43	-164.52	5,952.45	-1,997.27	228.28	118.55	109.73	2.080		
13,900.00	7,390.00	14,271.22	7,610.00	104.17	104.90	-164.65	6,052.44	-1,995.87	228.14	116.77	111.37	2.048		
13,953.41	7,390.00	14,324.63	7,610.00	104.96	105.68	-164.71	6,105.84	-1,995.13	228.07	115.82	112.25	2.032		
14,000.00	7,390.00	14,369.70	7,610.00	105.65	106.35	-164.77	6,150.91	-1,995.15	228.01	114.90	113.11	2.016		
14,064.18	7,390.00	14,433.85	7,610.00	106.63	107.30	-165.20	6,215.06	-1,995.88	227.56	113.62	113.94	1.997		
14,100.00	7,390.00	14,469.63	7,610.00	107.18	107.84	-165.60	6,250.84	-1,996.29	227.15	112.85	114.30	1.987		

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4A-26H-P268 - OH - PLAN #4												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
14,200.00	7,390.00	14,569.53	7,610.00	108.73	109.34	-166.74	6,350.72	-1,997.42	226.04	110.70	115.34	1.960	
14,300.00	7,390.00	14,669.42	7,610.00	110.28	110.83	-167.88	6,450.61	-1,998.56	225.03	108.58	116.45	1.932	
14,400.00	7,390.00	14,769.31	7,610.00	111.83	112.33	-169.03	6,550.50	-1,999.70	224.10	106.48	117.62	1.905	
14,500.00	7,390.00	14,869.21	7,610.00	113.38	113.84	-170.19	6,650.38	-2,000.84	223.27	104.39	118.87	1.878	
14,600.00	7,390.00	14,969.10	7,610.00	114.94	115.34	-171.36	6,750.27	-2,001.98	222.53	102.31	120.22	1.851	
14,700.00	7,390.00	15,068.99	7,610.00	116.49	116.85	-172.54	6,850.16	-2,003.11	221.88	100.22	121.66	1.824	
14,779.56	7,390.00	15,148.47	7,610.00	117.73	118.05	-173.48	6,929.63	-2,004.02	221.43	98.55	122.88	1.802	

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - SULLIVAN 4C-26H-P268 - OH - PLAN #3													Offset Site Error: 0.00 usft	
Survey Program: O-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	89.75	0.04	10.07	10.07					
100.00	100.00	100.00	100.00	0.14	0.14	89.75	0.04	10.07	10.07	9.79	0.28	36.483		
200.00	200.00	200.00	200.00	0.50	0.50	89.75	0.04	10.07	10.07	9.08	0.99	10.142		
300.00	300.00	300.00	300.00	0.85	0.85	89.75	0.04	10.07	10.07	8.36	1.71	5.889	CC, ES	
400.00	399.98	399.98	399.98	1.20	1.21	-168.69	0.04	10.07	11.78	9.36	2.42	4.870		
500.00	499.84	500.37	500.35	1.56	1.56	-170.51	-0.56	8.42	15.25	12.12	3.13	4.867		
600.00	599.45	600.88	600.72	1.92	1.91	-170.43	-2.38	3.46	18.81	14.94	3.87	4.859		
700.00	698.70	701.51	700.95	2.29	2.27	-169.34	-5.42	-4.81	22.44	17.81	4.62	4.852		
800.00	797.47	802.25	800.93	2.69	2.65	-167.67	-9.68	-16.39	26.16	20.77	5.39	4.853		
900.00	895.62	903.10	900.52	3.11	3.04	-165.65	-15.15	-31.29	29.99	23.82	6.17	4.863		
1,000.00	993.06	1,004.06	999.59	3.57	3.46	-163.43	-21.83	-49.49	33.95	27.00	6.95	4.881		
1,100.00	1,089.64	1,105.12	1,098.02	4.06	3.91	-161.08	-29.73	-70.97	38.07	30.30	7.76	4.902		
1,155.17	1,142.53	1,160.80	1,151.90	4.35	4.18	-159.76	-34.58	-84.19	40.42	32.20	8.22	4.918		
1,200.00	1,185.37	1,205.58	1,195.14	4.59	4.39	-158.85	-38.58	-95.08	42.49	33.91	8.58	4.952		
1,300.00	1,280.95	1,305.46	1,291.61	5.14	4.89	-157.10	-47.51	-119.39	47.14	37.73	9.40	5.012		
1,400.00	1,376.53	1,405.34	1,388.07	5.71	5.40	-155.66	-56.44	-143.70	51.82	41.56	10.26	5.052		
1,500.00	1,472.11	1,505.23	1,484.54	6.28	5.91	-154.47	-65.37	-168.01	56.52	45.40	11.13	5.080		
1,600.00	1,567.68	1,605.11	1,581.01	6.86	6.43	-153.45	-74.30	-192.32	61.25	49.24	12.02	5.097		
1,700.00	1,663.26	1,704.99	1,677.47	7.45	6.96	-152.59	-83.23	-216.63	66.00	53.08	12.92	5.108		
1,800.00	1,758.84	1,804.87	1,773.94	8.03	7.49	-151.84	-92.16	-240.94	70.76	56.92	13.83	5.115		
1,900.00	1,854.42	1,904.76	1,870.41	8.63	8.02	-151.18	-101.09	-265.25	75.52	60.77	14.76	5.118		
2,000.00	1,949.99	2,004.64	1,966.88	9.22	8.56	-150.60	-110.02	-289.55	80.30	64.61	15.69	5.118		
2,100.00	2,045.57	2,104.52	2,063.34	9.82	9.09	-150.09	-118.95	-313.86	85.09	68.46	16.63	5.117		
2,200.00	2,141.15	2,204.40	2,159.81	10.41	9.63	-149.63	-127.87	-338.17	89.88	72.30	17.57	5.115		
2,300.00	2,236.73	2,304.29	2,256.28	11.01	10.17	-149.22	-136.80	-362.48	94.67	76.15	18.52	5.112		
2,400.00	2,332.30	2,404.17	2,352.74	11.61	10.71	-148.85	-145.73	-386.79	99.47	80.00	19.47	5.108		
2,500.00	2,427.88	2,504.05	2,449.21	12.21	11.26	-148.51	-154.66	-411.10	104.27	83.85	20.43	5.104		
2,600.00	2,523.46	2,603.94	2,545.68	12.82	11.80	-148.20	-163.59	-435.41	109.08	87.69	21.39	5.100		
2,700.00	2,619.04	2,703.82	2,642.15	13.42	12.35	-147.92	-172.52	-459.72	113.89	91.54	22.35	5.096		
2,800.00	2,714.61	2,803.70	2,738.61	14.02	12.89	-147.66	-181.45	-484.02	118.70	95.39	23.31	5.092		
2,900.00	2,810.19	2,903.58	2,835.08	14.63	13.44	-147.42	-190.38	-508.33	123.52	99.24	24.28	5.087		
3,000.00	2,905.77	3,003.47	2,931.55	15.23	13.98	-147.20	-199.31	-532.64	128.34	103.09	25.25	5.083		
3,100.00	3,001.35	3,103.35	3,028.01	15.84	14.53	-146.99	-208.24	-556.95	133.15	106.94	26.22	5.079		
3,200.00	3,096.92	3,203.23	3,124.48	16.44	15.08	-146.80	-217.17	-581.26	137.97	110.78	27.19	5.074		
3,300.00	3,192.50	3,303.11	3,220.95	17.05	15.62	-146.62	-226.10	-605.57	142.80	114.63	28.16	5.070		
3,400.00	3,288.08	3,403.00	3,317.42	17.65	16.17	-146.46	-235.03	-629.88	147.62	118.48	29.14	5.066		
3,500.00	3,383.66	3,502.88	3,413.88	18.26	16.72	-146.30	-243.96	-654.19	152.44	122.33	30.11	5.063		
3,600.00	3,479.23	3,602.76	3,510.35	18.87	17.27	-146.16	-252.89	-678.49	157.27	126.18	31.09	5.059		
3,700.00	3,574.81	3,702.65	3,606.82	19.47	17.82	-146.02	-261.81	-702.80	162.09	130.03	32.06	5.055		
3,800.00	3,670.39	3,802.53	3,703.28	20.08	18.36	-145.89	-270.74	-727.11	166.92	133.88	33.04	5.052		
3,900.00	3,765.97	3,902.41	3,799.75	20.69	18.91	-145.77	-279.67	-751.42	171.75	137.73	34.02	5.048		
4,000.00	3,861.54	4,002.29	3,896.22	21.30	19.46	-145.65	-288.60	-775.73	176.58	141.58	35.00	5.045		
4,100.00	3,957.12	4,102.18	3,992.69	21.90	20.01	-145.54	-297.53	-800.04	181.41	145.43	35.98	5.042		
4,200.00	4,052.70	4,202.06	4,089.15	22.51	20.56	-145.44	-306.46	-824.35	186.24	149.27	36.96	5.039		
4,300.00	4,148.28	4,301.94	4,185.62	23.12	21.11	-145.34	-315.39	-848.66	191.07	153.12	37.94	5.036		
4,400.00	4,243.85	4,401.82	4,282.09	23.73	21.66	-145.24	-324.32	-872.96	195.90	156.97	38.92	5.033		
4,500.00	4,339.43	4,501.71	4,378.56	24.34	22.21	-145.16	-333.25	-897.27	200.73	160.82	39.91	5.030		
4,600.00	4,435.01	4,601.59	4,475.02	24.95	22.76	-145.07	-342.18	-921.58	205.56	164.67	40.89	5.027		
4,700.00	4,530.59	4,701.47	4,571.49	25.55	23.31	-144.99	-351.11	-945.89	210.39	168.52	41.87	5.025		
4,800.00	4,626.16	4,801.36	4,667.96	26.16	23.86	-144.91	-360.04	-970.20	215.22	172.37	42.85	5.022		
4,900.00	4,721.74	4,901.24	4,764.42	26.77	24.41	-144.84	-368.97	-994.51	220.06	176.22	43.84	5.020		
5,000.00	4,817.32	5,001.12	4,860.89	27.38	24.96	-144.77	-377.90	-1,018.82	224.89	180.07	44.82	5.018		

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 4B-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 4B-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 #4	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	
5,100.00	4,912.90	5,101.00	4,957.36	27.99	25.51	-144.70	-386.82	-1,043.13	229.72	183.92	45.81	5.015	
5,200.00	5,008.47	5,200.89	5,053.83	28.60	26.06	-144.63	-395.75	-1,067.43	234.56	187.77	46.79	5.013	
5,300.00	5,104.05	5,300.77	5,150.29	29.21	26.61	-144.57	-404.68	-1,091.74	239.39	191.62	47.77	5.011	
5,400.00	5,199.63	5,400.65	5,246.76	29.82	27.16	-144.51	-413.61	-1,116.05	244.23	195.47	48.76	5.009	
5,500.00	5,295.21	5,500.53	5,343.23	30.43	27.72	-144.45	-422.54	-1,140.36	249.06	199.32	49.74	5.007	
5,600.00	5,390.78	5,600.42	5,439.69	31.03	28.27	-144.40	-431.47	-1,164.67	253.90	203.17	50.73	5.005	
5,700.00	5,486.36	5,700.30	5,536.16	31.64	28.82	-144.35	-440.40	-1,188.98	258.73	207.02	51.72	5.003	
5,800.00	5,581.94	5,800.18	5,632.63	32.25	29.37	-144.29	-449.33	-1,213.29	263.57	210.87	52.70	5.001	
5,900.00	5,677.52	5,900.07	5,729.10	32.86	29.92	-144.24	-458.26	-1,237.60	268.40	214.72	53.69	4.999	
6,000.00	5,773.09	5,999.95	5,825.56	33.47	30.47	-144.20	-467.19	-1,261.90	273.24	218.57	54.67	4.998	
6,100.00	5,868.67	6,099.83	5,922.03	34.08	31.02	-144.15	-476.12	-1,286.21	278.08	222.42	55.66	4.996	
6,200.00	5,964.25	6,199.71	6,018.50	34.69	31.57	-144.11	-485.05	-1,310.52	282.91	226.27	56.65	4.994	
6,300.00	6,059.83	6,299.60	6,114.96	35.30	32.12	-144.06	-493.98	-1,334.83	287.75	230.11	57.63	4.993	
6,400.00	6,155.40	6,399.48	6,211.43	35.91	32.67	-144.02	-502.91	-1,359.14	292.58	233.96	58.62	4.991	
6,500.00	6,250.98	6,499.36	6,307.90	36.52	33.23	-143.98	-511.83	-1,383.45	297.42	237.81	59.61	4.990	
6,600.00	6,346.56	6,599.25	6,404.37	37.13	33.78	-143.94	-520.76	-1,407.76	302.26	241.66	60.59	4.988	
6,700.00	6,442.14	6,699.13	6,500.83	37.74	34.33	-143.90	-529.69	-1,432.07	307.10	245.51	61.58	4.987	
6,800.00	6,537.71	6,799.01	6,597.30	38.35	34.88	-143.87	-538.62	-1,456.37	311.93	249.36	62.57	4.985	
6,900.00	6,633.29	6,898.89	6,693.77	38.96	35.43	-143.83	-547.55	-1,480.68	316.77	253.21	63.56	4.984	
7,000.00	6,728.87	6,998.77	6,788.65	39.57	35.98	-143.79	-556.48	-1,504.99	321.60	257.06	64.55	4.982	
7,100.00	6,824.45	7,098.65	6,883.53	40.18	36.53	-143.75	-565.41	-1,529.30	326.44	260.91	65.54	4.980	
7,200.00	6,919.22	7,193.42	6,978.25	40.79	37.08	-143.71	-574.34	-1,553.61	331.28	264.76	66.53	4.978	
7,300.00	7,014.00	7,287.60	7,072.97	41.40	37.63	-143.67	-583.27	-1,577.92	336.12	268.61	67.52	4.976	
7,400.00	7,108.78	7,381.78	7,167.49	42.01	38.18	-143.63	-592.20	-1,602.23	340.96	272.46	68.51	4.974	
7,500.00	7,203.56	7,475.98	7,262.01	42.62	38.73	-143.59	-601.13	-1,626.54	345.80	276.31	69.50	4.972	
7,600.00	7,298.34	7,570.18	7,356.53	43.23	39.28	-143.55	-610.06	-1,650.85	350.64	280.16	70.49	4.970	
7,700.00	7,393.12	7,664.38	7,451.05	43.84	39.83	-143.51	-618.99	-1,675.16	355.48	284.01	71.48	4.968	
7,800.00	7,487.90	7,758.58	7,545.57	44.45	40.38	-143.47	-627.92	-1,699.47	360.32	287.86	72.47	4.966	
7,900.00	7,582.68	7,852.78	7,640.09	45.06	40.93	-143.43	-636.85	-1,723.78	365.16	291.71	73.46	4.964	
8,000.00	7,677.46	7,946.98	7,734.61	45.67	41.48	-143.39	-645.78	-1,748.09	370.00	295.56	74.45	4.962	
8,100.00	7,772.24	8,041.18	7,829.13	46.28	42.03	-143.35	-654.71	-1,772.40	374.84	299.41	75.44	4.960	
8,200.00	7,867.02	8,135.38	7,923.65	46.89	42.58	-143.31	-663.64	-1,796.71	379.68	303.26	76.43	4.958	
8,300.00	7,961.80	8,229.58	8,018.17	47.50	43.13	-143.27	-672.57	-1,821.02	384.52	307.11	77.42	4.956	
8,400.00	8,056.58	8,323.78	8,112.69	48.11	43.68	-143.23	-681.50	-1,845.33	389.36	310.96	78.41	4.954	
8,500.00	8,151.36	8,417.98	8,207.21	48.72	44.23	-143.19	-690.43	-1,869.64	394.20	314.81	79.40	4.952	
8,600.00	8,246.14	8,512.18	8,301.73	49.33	44.78	-143.15	-699.36	-1,893.95	399.04	318.66	80.39	4.950	
8,700.00	8,340.92	8,606.38	8,396.25	49.94	45.33	-143.11	-708.29	-1,918.26	403.88	322.51	81.38	4.948	
8,800.00	8,435.70	8,700.58	8,490.77	50.55	45.88	-143.07	-717.22	-1,942.57	408.72	326.36	82.37	4.946	
8,900.00	8,530.48	8,794.78	8,585.29	51.16	46.43	-143.03	-726.15	-1,966.88	413.56	330.21	83.36	4.944	
9,000.00	8,625.26	8,888.98	8,679.81	51.77	46.98	-142.99	-735.08	-1,991.19	418.40	334.06	84.35	4.942	
9,100.00	8,720.04	8,983.18	8,774.33	52.38	47.53	-142.95	-744.01	-2,015.50	423.24	337.91	85.34	4.940	
9,200.00	8,814.82	9,077.38	8,868.85	52.99	48.08	-142.91	-752.94	-2,039.81	428.08	341.76	86.33	4.938	
9,300.00	8,909.60	9,171.58	8,963.37	53.60	48.63	-142.87	-761.87	-2,064.12	432.92	345.61	87.32	4.936	
9,400.00	9,004.38	9,265.78	9,057.89	54.21	49.18	-142.83	-770.80	-2,088.43	437.76	349.46	88.31	4.934	
9,500.00	9,099.16	9,359.98	9,152.41	54.82	49.73	-142.79	-779.73	-2,112.74	442.60	353.31	89.30	4.932	
9,600.00	9,193.94	9,454.18	9,246.93	55.43	50.28	-142.75	-788.66	-2,137.05	447.44	357.16	90.29	4.930	
9,700.00	9,288.72	9,548.38	9,341.45	56.04	50.83	-142.71	-797.59	-2,161.36	452.28	361.01	91.28	4.928	
9,800.00	9,383.50	9,642.58	9,435.97	56.65	51.38	-142.67	-806.52	-2,185.67	457.12	364.86	92.27	4.926	
9,900.00	9,478.28	9,736.78	9,530.49	57.26	51.93	-142.63	-815.45	-2,209.98	461.96	368.71	93.26	4.924	
10,000.00	9,573.06	9,830.98	9,624.91	57.87	52.48	-142.59	-824.38	-2,234.29	466.80	372.56	94.25	4.922	

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 4B-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 4B-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 #4	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				Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,390.00	9,331.25	7,480.00	45.63	44.02	114.92	1,361.93	-1,782.69	213.91	133.77	80.14	2.669	
9,300.00	7,390.00	9,431.06	7,480.00	46.28	44.95	115.63	1,461.61	-1,787.92	208.39	126.35	82.03	2.540	
9,400.00	7,390.00	9,527.21	7,480.00	46.98	45.87	116.27	1,557.65	-1,792.37	203.45	119.93	83.53	2.436	
9,500.00	7,390.00	9,622.10	7,480.00	47.74	46.79	116.57	1,652.53	-1,793.89	201.22	116.32	84.90	2.370	
9,600.00	7,390.00	9,722.10	7,480.00	48.56	47.78	116.74	1,752.52	-1,794.32	200.06	113.10	86.96	2.301	
9,700.00	7,390.00	9,822.09	7,480.00	49.42	48.80	116.90	1,852.51	-1,794.74	198.90	109.84	89.06	2.233	
9,800.00	7,390.00	9,922.08	7,480.00	50.33	49.86	117.08	1,952.50	-1,795.17	197.75	106.54	91.20	2.168	
9,900.00	7,390.00	10,022.07	7,480.00	51.29	50.94	117.25	2,052.49	-1,795.59	196.59	103.21	93.38	2.105	
10,000.00	7,390.00	10,122.06	7,480.00	52.28	52.06	117.42	2,152.48	-1,796.02	195.44	99.85	95.58	2.045	
10,100.00	7,390.00	10,222.05	7,480.00	53.31	53.21	117.60	2,252.47	-1,796.44	194.29	96.47	97.82	1.986	
10,200.00	7,390.00	10,322.05	7,480.00	54.37	54.38	117.78	2,352.46	-1,796.87	193.14	93.06	100.08	1.930	
10,300.00	7,390.00	10,422.04	7,480.00	55.46	55.57	117.96	2,452.45	-1,797.29	191.99	89.63	102.36	1.876	
10,400.00	7,390.00	10,522.03	7,480.00	56.58	56.79	118.14	2,552.44	-1,797.72	190.84	86.18	104.66	1.823	
10,500.00	7,390.00	10,622.02	7,480.00	57.73	58.02	118.32	2,652.43	-1,798.15	189.70	82.71	106.99	1.773	
10,600.00	7,390.00	10,722.01	7,480.00	58.90	59.27	118.51	2,752.43	-1,798.57	188.56	79.23	109.33	1.725	
10,700.00	7,390.00	10,822.00	7,480.00	60.09	60.54	118.70	2,852.42	-1,799.00	187.42	75.74	111.68	1.678	
10,756.37	7,390.00	10,876.24	7,480.00	60.77	61.23	118.77	2,906.65	-1,798.99	187.00	74.36	112.64	1.660	
10,800.00	7,390.00	10,918.44	7,480.00	61.30	61.77	118.73	2,948.85	-1,798.36	187.23	73.78	113.46	1.650	
10,900.00	7,390.00	11,018.44	7,480.00	62.54	63.03	118.60	3,048.83	-1,796.61	188.00	72.04	115.96	1.621	
11,000.00	7,390.00	11,118.43	7,480.00	63.78	64.32	118.48	3,148.81	-1,794.87	188.77	70.28	118.48	1.593	
11,100.00	7,390.00	11,218.43	7,480.00	65.05	65.61	118.35	3,248.79	-1,793.12	189.53	68.51	121.03	1.566	
11,200.00	7,390.00	11,318.42	7,480.00	66.33	66.92	118.23	3,348.77	-1,791.38	190.30	66.71	123.59	1.540	
11,300.00	7,390.00	11,418.42	7,480.00	67.62	68.24	118.10	3,448.75	-1,789.63	191.07	64.90	126.17	1.514	
11,400.00	7,390.00	11,518.42	7,480.00	68.93	69.57	117.98	3,548.73	-1,787.89	191.84	63.07	128.77	1.490 Level 3	
11,500.00	7,390.00	11,618.41	7,480.00	70.25	70.91	117.86	3,648.71	-1,786.14	192.61	61.22	131.39	1.466 Level 3	
11,600.00	7,390.00	11,718.41	7,480.00	71.58	72.26	117.74	3,748.70	-1,784.40	193.39	59.36	134.02	1.443 Level 3	
11,700.00	7,390.00	11,818.41	7,480.00	72.92	73.62	117.62	3,848.68	-1,782.65	194.16	57.49	136.67	1.421 Level 3	
11,800.00	7,390.00	11,918.40	7,480.00	74.27	74.99	117.50	3,948.66	-1,780.91	194.93	55.60	139.33	1.399 Level 3	
11,900.00	7,390.00	12,018.40	7,480.00	75.63	76.36	117.38	4,048.64	-1,779.16	195.71	53.70	142.01	1.378 Level 3	
12,000.00	7,390.00	12,118.39	7,480.00	77.00	77.75	117.26	4,148.62	-1,777.42	196.48	51.78	144.70	1.358 Level 3	
12,100.00	7,390.00	12,218.39	7,480.00	78.38	79.14	117.15	4,248.60	-1,775.67	197.26	49.86	147.40	1.338 Level 3	
12,200.00	7,390.00	12,318.39	7,480.00	79.76	80.54	117.03	4,348.58	-1,773.93	198.03	47.92	150.12	1.319 Level 3	
12,300.00	7,390.00	12,418.38	7,480.00	81.15	81.94	116.92	4,448.56	-1,772.18	198.81	45.97	152.84	1.301 Level 3	
12,400.00	7,390.00	12,518.38	7,480.00	82.55	83.35	116.80	4,548.54	-1,770.44	199.59	44.01	155.58	1.283 Level 3	
12,500.00	7,390.00	12,618.38	7,480.00	83.96	84.76	116.69	4,648.52	-1,768.69	200.37	42.04	158.33	1.266 Level 3	
12,600.00	7,390.00	12,718.37	7,480.00	85.37	86.19	116.58	4,748.50	-1,766.94	201.15	40.06	161.09	1.249 Level 2	
12,700.00	7,390.00	12,818.37	7,480.00	86.79	87.61	116.47	4,848.49	-1,765.20	201.93	38.07	163.86	1.232 Level 2	
12,800.00	7,390.00	12,918.36	7,480.00	88.21	89.04	116.36	4,948.47	-1,763.45	202.71	36.08	166.64	1.217 Level 2	
12,900.00	7,390.00	13,018.36	7,480.00	89.64	90.48	116.25	5,048.45	-1,761.71	203.50	34.07	169.42	1.201 Level 2	
13,000.00	7,390.00	13,118.36	7,480.00	91.08	91.92	116.14	5,148.43	-1,759.96	204.28	32.06	172.22	1.186 Level 2	
13,100.00	7,390.00	13,218.35	7,480.00	92.52	93.36	116.03	5,248.41	-1,758.22	205.06	30.04	175.02	1.172 Level 2	
13,200.00	7,390.00	13,318.35	7,480.00	93.96	94.81	115.93	5,348.39	-1,756.47	205.85	28.01	177.84	1.157 Level 2	
13,300.00	7,390.00	13,418.34	7,480.00	95.41	96.26	115.82	5,448.37	-1,754.73	206.63	25.97	180.66	1.144 Level 2	
13,400.00	7,390.00	13,518.34	7,480.00	96.86	97.72	115.72	5,548.35	-1,752.98	207.42	23.93	183.49	1.130 Level 2	
13,500.00	7,390.00	13,618.34	7,480.00	98.31	99.18	115.61	5,648.33	-1,751.24	208.20	21.88	186.32	1.117 Level 2	
13,600.00	7,390.00	13,718.33	7,480.00	99.77	100.64	115.51	5,748.31	-1,749.49	208.99	19.82	189.17	1.105 Level 2	
13,700.00	7,390.00	13,818.33	7,480.00	101.24	102.11	115.41	5,848.30	-1,747.75	209.78	17.76	192.02	1.092 Level 2	
13,800.00	7,390.00	13,918.33	7,480.00	102.70	103.58	115.30	5,948.28	-1,746.00	210.57	15.69	194.88	1.081 Level 2	
13,900.00	7,390.00	14,018.32	7,480.00	104.17	105.05	115.20	6,048.26	-1,744.26	211.36	13.62	197.74	1.069 Level 2	
13,953.41	7,390.00	14,071.73	7,480.00	104.96	105.84	115.15	6,101.65	-1,743.33	211.78	12.51	199.27	1.063 Level 2	
14,000.00	7,390.00	14,118.31	7,480.00	105.65	106.52	115.04	6,148.23	-1,742.51	212.74	12.06	200.67	1.060 Level 2, SF	
14,064.18	7,390.00	14,182.39	7,480.00	106.63	107.47	114.69	6,212.30	-1,741.39	215.98	13.17	202.81	1.065 Level 2	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design													S26-T2N-R68W - SULLIVAN 4C-26H-P268 - OH - PLAN #3		Offset Site Error:		0.00 usft
Survey Program:													0-MWD+HDGM		Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning				
14,100.00	7,390.00	14,218.10	7,480.00	107.18	108.00	114.39	6,248.01	-1,740.77	218.43	14.36	204.06	1.070	Level 2				
14,200.00	7,390.00	14,317.82	7,480.00	108.73	109.47	113.61	6,347.71	-1,739.03	225.28	17.74	207.54	1.085	Level 2				
14,300.00	7,390.00	14,417.54	7,480.00	110.28	110.95	112.87	6,447.41	-1,737.29	232.16	21.19	210.98	1.100	Level 2				
14,400.00	7,390.00	14,517.26	7,480.00	111.83	112.43	112.17	6,547.12	-1,735.55	239.09	24.70	214.39	1.115	Level 2				
14,500.00	7,390.00	14,616.98	7,480.00	113.38	113.92	111.51	6,646.82	-1,733.81	246.05	28.28	217.77	1.130	Level 2				
14,600.00	7,390.00	14,716.70	7,480.00	114.94	115.40	110.89	6,746.53	-1,732.07	253.04	31.90	221.13	1.144	Level 2				
14,700.00	7,390.00	14,816.41	7,480.00	116.49	116.89	110.30	6,846.23	-1,730.33	260.05	35.58	224.47	1.159	Level 2				
14,779.56	7,390.00	14,895.76	7,480.00	117.73	118.07	109.85	6,925.56	-1,728.94	265.66	38.54	227.12	1.170	Level 2				

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - SULLIVAN 4D-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.75	0.09	19.86	19.86				
100.00	100.00	100.00	100.00	0.14	0.14	89.75	0.09	19.86	19.86	19.58	0.28	71.953	
200.00	200.00	200.00	200.00	0.50	0.50	89.75	0.09	19.86	19.86	18.87	0.99	20.001	
300.00	300.00	300.00	300.00	0.85	0.85	89.75	0.09	19.86	19.86	18.15	1.71	11.615 CC, ES	
400.00	399.98	399.98	399.98	1.20	1.21	-167.80	0.09	19.86	21.56	19.14	2.42	8.917	
500.00	499.84	499.84	499.84	1.56	1.57	-170.16	0.09	19.86	26.70	23.57	3.13	8.538	
600.00	599.45	600.60	600.58	1.92	1.92	-171.71	-0.60	18.23	33.65	29.81	3.84	8.753	
700.00	698.70	701.60	701.43	2.29	2.27	-171.91	-2.67	13.33	40.71	36.13	4.58	8.892	
800.00	797.47	802.83	802.27	2.69	2.63	-171.36	-6.14	5.13	47.86	42.53	5.33	8.980	
900.00	895.62	904.30	902.95	3.11	3.00	-170.35	-11.00	-6.37	55.11	49.01	6.09	9.042	
1,000.00	993.06	1,005.98	1,003.36	3.57	3.39	-169.04	-17.27	-21.19	62.47	55.59	6.87	9.091	
1,100.00	1,089.64	1,107.89	1,103.34	4.06	3.81	-167.53	-24.93	-39.32	69.95	62.29	7.66	9.130	
1,155.17	1,142.53	1,164.20	1,158.27	4.35	4.06	-166.63	-29.76	-50.74	74.14	66.03	8.11	9.147	
1,200.00	1,185.37	1,209.35	1,202.15	4.59	4.26	-165.88	-33.89	-60.51	77.36	68.90	8.46	9.147	
1,300.00	1,280.95	1,309.07	1,299.06	5.14	4.72	-164.39	-43.05	-82.19	84.46	75.22	9.24	9.140	
1,400.00	1,376.53	1,408.80	1,395.97	5.71	5.18	-163.13	-52.22	-103.87	91.61	81.57	10.04	9.120	
1,500.00	1,472.11	1,508.52	1,492.87	6.28	5.66	-162.05	-61.38	-125.55	98.80	87.94	10.87	9.093	
1,600.00	1,567.68	1,608.25	1,589.78	6.86	6.15	-161.11	-70.55	-147.23	106.02	94.32	11.70	9.061	
1,700.00	1,663.26	1,707.97	1,686.69	7.45	6.63	-160.30	-79.72	-168.92	113.26	100.72	12.55	9.026	
1,800.00	1,758.84	1,807.70	1,783.59	8.03	7.13	-159.59	-88.88	-190.60	120.53	107.12	13.41	8.991	
1,900.00	1,854.42	1,907.42	1,880.50	8.63	7.63	-158.95	-98.05	-212.28	127.81	113.54	14.27	8.955	
2,000.00	1,949.99	2,007.15	1,977.41	9.22	8.12	-158.39	-107.21	-233.96	135.10	119.96	15.14	8.921	
2,100.00	2,045.57	2,106.87	2,074.32	9.82	8.63	-157.88	-116.38	-255.64	142.41	126.38	16.02	8.887	
2,200.00	2,141.15	2,206.60	2,171.22	10.41	9.13	-157.42	-125.55	-277.33	149.72	132.81	16.91	8.855	
2,300.00	2,236.73	2,306.33	2,268.13	11.01	9.64	-157.01	-134.71	-299.01	157.05	139.25	17.80	8.824	
2,400.00	2,332.30	2,406.05	2,365.04	11.61	10.14	-156.63	-143.88	-320.69	164.38	145.69	18.69	8.795	
2,500.00	2,427.88	2,505.78	2,461.94	12.21	10.65	-156.28	-153.04	-342.37	171.72	152.13	19.59	8.767	
2,600.00	2,523.46	2,605.50	2,558.85	12.82	11.16	-155.97	-162.21	-364.05	179.06	158.57	20.49	8.740	
2,700.00	2,619.04	2,705.23	2,655.76	13.42	11.67	-155.67	-171.37	-385.74	186.41	165.02	21.39	8.715	
2,800.00	2,714.61	2,804.95	2,752.67	14.02	12.18	-155.40	-180.54	-407.42	193.76	171.47	22.29	8.691	
2,900.00	2,810.19	2,904.68	2,849.57	14.63	12.69	-155.15	-189.71	-429.10	201.12	177.92	23.20	8.668	
3,000.00	2,905.77	3,004.40	2,946.48	15.23	13.20	-154.92	-198.87	-450.78	208.48	184.37	24.11	8.647	
3,100.00	3,001.35	3,104.13	3,043.39	15.84	13.71	-154.70	-208.04	-472.47	215.85	190.82	25.02	8.626	
3,200.00	3,096.92	3,203.85	3,140.29	16.44	14.23	-154.50	-217.20	-494.15	223.21	197.28	25.93	8.607	
3,300.00	3,192.50	3,303.58	3,237.20	17.05	14.74	-154.31	-226.37	-515.83	230.58	203.73	26.85	8.589	
3,400.00	3,288.08	3,403.30	3,334.11	17.65	15.25	-154.13	-235.54	-537.51	237.95	210.19	27.76	8.571	
3,500.00	3,383.66	3,503.03	3,431.02	18.26	15.77	-153.97	-244.70	-559.19	245.33	216.65	28.68	8.554	
3,600.00	3,479.23	3,602.75	3,527.92	18.87	16.28	-153.81	-253.87	-580.88	252.70	223.11	29.60	8.538	
3,700.00	3,574.81	3,702.48	3,624.83	19.47	16.79	-153.66	-263.03	-602.56	260.08	229.57	30.51	8.523	
3,800.00	3,670.39	3,802.20	3,721.74	20.08	17.31	-153.52	-272.20	-624.24	267.46	236.03	31.43	8.509	
3,900.00	3,765.97	3,901.93	3,818.64	20.69	17.82	-153.39	-281.37	-645.92	274.84	242.49	32.35	8.495	
4,000.00	3,861.54	4,001.65	3,915.55	21.30	18.34	-153.26	-290.53	-667.60	282.23	248.95	33.27	8.482	
4,100.00	3,957.12	4,101.38	4,012.46	21.90	18.85	-153.14	-299.70	-689.29	289.61	255.41	34.20	8.469	
4,200.00	4,052.70	4,201.11	4,109.37	22.51	19.37	-153.03	-308.86	-710.97	296.99	261.88	35.12	8.457	
4,300.00	4,148.28	4,300.83	4,206.27	23.12	19.88	-152.92	-318.03	-732.65	304.38	268.34	36.04	8.445	
4,400.00	4,243.85	4,400.56	4,303.18	23.73	20.40	-152.82	-327.19	-754.33	311.77	274.80	36.96	8.434	
4,500.00	4,339.43	4,500.28	4,400.09	24.34	20.92	-152.72	-336.36	-776.01	319.15	281.27	37.89	8.424	
4,600.00	4,435.01	4,600.01	4,497.00	24.95	21.43	-152.63	-345.53	-797.70	326.54	287.73	38.81	8.414	
4,700.00	4,530.59	4,699.73	4,593.90	25.55	21.95	-152.54	-354.69	-819.38	333.93	294.20	39.74	8.404	
4,800.00	4,626.16	4,799.46	4,690.81	26.16	22.46	-152.45	-363.86	-841.06	341.32	300.66	40.66	8.394	
4,900.00	4,721.74	4,899.18	4,787.72	26.77	22.98	-152.37	-373.02	-862.74	348.71	307.13	41.59	8.385	
5,000.00	4,817.32	4,998.91	4,884.62	27.38	23.50	-152.29	-382.19	-884.42	356.11	313.59	42.51	8.376	

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 4B-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 4B-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 #4	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
5,100.00	4,912.90	5,098.63	4,981.53	27.99	24.01	-152.21	-391.36	-906.11	363.50	320.06	43.44	8.368	
5,200.00	5,008.47	5,198.36	5,078.44	28.60	24.53	-152.14	-400.52	-927.79	370.89	326.53	44.37	8.360	
5,300.00	5,104.05	5,298.08	5,175.35	29.21	25.05	-152.07	-409.69	-949.47	378.29	332.99	45.29	8.352	
5,400.00	5,199.63	5,397.81	5,272.25	29.82	25.56	-152.00	-418.85	-971.15	385.68	339.46	46.22	8.344	
5,500.00	5,295.21	5,497.53	5,369.16	30.43	26.08	-151.94	-428.02	-992.83	393.08	345.93	47.15	8.337	
5,600.00	5,390.78	5,597.26	5,466.07	31.03	26.60	-151.88	-437.18	-1,014.52	400.47	352.40	48.08	8.330	
5,700.00	5,486.36	5,696.98	5,562.97	31.64	27.11	-151.82	-446.35	-1,036.20	407.87	358.86	49.00	8.323	
5,800.00	5,581.94	5,796.71	5,659.88	32.25	27.63	-151.76	-455.52	-1,057.88	415.26	365.33	49.93	8.317	
5,900.00	5,677.52	5,896.43	5,756.79	32.86	28.15	-151.71	-464.68	-1,079.56	422.66	371.80	50.86	8.310	
6,000.00	5,773.09	5,996.16	5,853.70	33.47	28.66	-151.65	-473.85	-1,101.25	430.06	378.27	51.79	8.304	
6,100.00	5,868.67	6,095.89	5,950.60	34.08	29.18	-151.60	-483.01	-1,122.93	437.45	384.74	52.72	8.298	
6,200.00	5,964.25	6,195.61	6,047.51	34.69	29.70	-151.55	-492.18	-1,144.61	444.85	391.20	53.65	8.292	
6,300.00	6,059.83	6,295.34	6,144.42	35.30	30.22	-151.50	-501.35	-1,166.29	452.25	397.67	54.58	8.287	
6,400.00	6,155.40	6,395.06	6,241.32	35.91	30.73	-151.45	-510.51	-1,187.97	459.65	404.14	55.50	8.281	
6,500.00	6,250.98	6,494.79	6,338.23	36.52	31.25	-151.41	-519.68	-1,209.66	467.04	410.61	56.43	8.276	
6,600.00	6,346.56	6,594.51	6,435.14	37.13	31.77	-151.36	-528.84	-1,231.34	474.44	417.08	57.36	8.271	
6,700.00	6,442.14	6,694.24	6,532.05	37.74	32.28	-151.32	-538.01	-1,253.02	481.84	423.55	58.29	8.266	
6,800.00	6,537.71	6,794.24	6,629.23	38.35	32.80	-151.28	-547.20	-1,274.76	489.24	430.02	59.23	8.261	
6,900.00	6,633.29	6,915.99	6,747.88	38.96	33.38	-152.41	-547.80	-1,301.37	494.34	434.53	59.81	8.265	
7,008.07	6,736.58	7,040.83	6,867.81	39.62	33.86	-155.92	-527.05	-1,328.38	495.90	436.36	59.54	8.329	
7,050.00	6,776.72	7,086.56	6,910.60	39.87	34.00	-170.03	-514.13	-1,338.04	496.25	436.93	59.32	8.365	
7,100.00	6,824.59	7,139.92	6,959.38	40.15	34.15	173.13	-495.57	-1,349.08	497.12	438.05	59.08	8.415	
7,150.00	6,872.19	7,192.09	7,005.64	40.42	34.28	158.03	-473.86	-1,359.57	498.46	439.59	58.87	8.468	
7,200.00	6,919.22	7,243.19	7,049.32	40.67	34.39	145.53	-449.31	-1,369.50	500.22	441.52	58.70	8.522	
7,250.00	6,965.38	7,293.30	7,090.40	40.90	34.48	135.52	-422.20	-1,378.86	502.36	443.78	58.58	8.576	
7,300.00	7,010.41	7,342.52	7,128.84	41.10	34.55	127.51	-392.76	-1,387.64	504.81	446.31	58.50	8.629	
7,350.00	7,054.01	7,390.92	7,164.64	41.29	34.61	121.04	-361.24	-1,395.84	507.52	449.06	58.46	8.682	
7,400.00	7,095.93	7,438.58	7,197.77	41.46	34.65	115.71	-327.85	-1,403.45	510.41	451.96	58.45	8.733	
7,450.00	7,135.90	7,485.58	7,228.24	41.60	34.68	111.26	-292.78	-1,410.47	513.42	454.97	58.45	8.783	
7,500.00	7,173.67	7,531.96	7,256.05	41.73	34.70	107.49	-256.23	-1,416.90	516.48	458.01	58.48	8.832	
7,550.00	7,209.02	7,577.80	7,281.21	41.84	34.72	104.27	-218.37	-1,422.75	519.53	461.03	58.51	8.880	
7,600.00	7,241.72	7,623.15	7,303.72	41.94	34.72	101.50	-179.36	-1,428.01	522.50	463.96	58.54	8.925	
7,650.00	7,271.57	7,668.06	7,323.60	42.02	34.72	99.11	-139.37	-1,432.68	525.34	466.75	58.58	8.967	
7,700.00	7,298.40	7,712.58	7,340.85	42.08	34.72	97.06	-98.54	-1,436.77	527.98	469.35	58.63	9.006	
7,750.00	7,322.02	7,756.75	7,355.48	42.13	34.71	95.30	-57.02	-1,440.28	530.37	471.69	58.68	9.039	
7,800.00	7,342.31	7,800.00	7,367.36	42.17	34.70	93.82	-15.54	-1,443.17	532.46	473.73	58.73	9.066	
7,850.00	7,359.13	7,844.21	7,376.96	42.21	34.69	92.58	27.54	-1,445.55	534.23	475.42	58.81	9.084	
7,900.00	7,372.37	7,887.58	7,383.83	42.23	34.68	91.58	70.32	-1,447.33	535.62	476.72	58.90	9.094	
7,950.00	7,381.97	7,930.76	7,388.16	42.25	34.68	90.81	113.26	-1,448.53	536.61	477.60	59.01	9.093	
8,000.00	7,387.85	7,973.79	7,389.94	42.26	34.68	90.26	156.24	-1,449.16	537.17	478.02	59.15	9.082	
8,053.41	7,390.00	8,025.68	7,390.00	42.28	34.68	90.00	208.13	-1,449.46	537.04	477.63	59.40	9.040	
8,100.00	7,390.00	8,072.27	7,390.00	42.29	34.70	90.00	254.72	-1,449.71	536.38	476.67	59.71	8.983	
8,200.00	7,390.00	8,172.26	7,390.00	42.35	34.79	90.00	354.71	-1,450.25	534.97	474.47	60.49	8.844	
8,300.00	7,390.00	8,272.25	7,390.00	42.44	34.94	90.00	454.69	-1,450.79	533.55	472.13	61.42	8.686	
8,400.00	7,390.00	8,372.24	7,390.00	42.59	35.18	90.00	554.68	-1,451.33	532.14	469.64	62.50	8.514	
8,500.00	7,390.00	8,472.23	7,390.00	42.77	35.52	90.00	654.67	-1,451.87	530.73	467.01	63.72	8.329	
8,600.00	7,390.00	8,572.22	7,390.00	43.01	35.95	90.00	754.66	-1,452.41	529.31	464.25	65.07	8.135	
8,700.00	7,390.00	8,672.21	7,390.00	43.30	36.49	90.00	854.65	-1,452.95	527.90	461.36	66.54	7.934	
8,800.00	7,390.00	8,772.20	7,390.00	43.65	37.11	90.00	954.64	-1,453.49	526.48	458.36	68.12	7.728	
8,900.00	7,390.00	8,872.19	7,390.00	44.05	37.83	90.00	1,054.63	-1,454.04	525.07	455.25	69.82	7.521	
9,000.00	7,390.00	8,972.18	7,390.00	44.52	38.62	90.00	1,154.61	-1,454.58	523.66	452.05	71.61	7.313	
9,100.00	7,390.00	9,072.17	7,390.00	45.04	39.48	90.00	1,254.60	-1,455.12	522.24	448.75	73.50	7.106	

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 4B-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 4B-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 #4	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
9,200.00	7,390.00	9,172.16	7,390.00	45.63	40.39	90.00	1,354.59	-1,455.66	520.83	445.36	75.47	6.901	
9,300.00	7,390.00	9,272.15	7,390.00	46.28	41.36	90.00	1,454.58	-1,456.20	519.42	441.90	77.52	6.701	
9,400.00	7,390.00	9,372.14	7,390.00	46.98	42.37	90.00	1,554.57	-1,456.74	518.00	438.36	79.64	6.504	
9,500.00	7,390.00	9,472.13	7,390.00	47.74	43.41	90.00	1,654.56	-1,457.28	516.59	434.76	81.83	6.313	
9,600.00	7,390.00	9,572.12	7,390.00	48.56	44.50	90.00	1,754.55	-1,457.82	515.18	431.09	84.08	6.127	
9,700.00	7,390.00	9,672.11	7,390.00	49.42	45.62	90.00	1,854.53	-1,458.36	513.76	427.37	86.39	5.947	
9,800.00	7,390.00	9,772.10	7,390.00	50.33	46.76	90.00	1,954.52	-1,458.90	512.35	423.59	88.76	5.773	
9,900.00	7,390.00	9,872.09	7,390.00	51.29	47.94	90.00	2,054.51	-1,459.45	510.93	419.77	91.17	5.604	
10,000.00	7,390.00	9,972.08	7,390.00	52.28	49.14	90.00	2,154.50	-1,459.99	509.52	415.90	93.62	5.442	
10,100.00	7,390.00	10,072.07	7,390.00	53.31	50.36	90.00	2,254.49	-1,460.53	508.11	411.99	96.12	5.286	
10,200.00	7,390.00	10,172.06	7,390.00	54.37	51.60	90.00	2,354.48	-1,461.07	506.69	408.04	98.66	5.136	
10,300.00	7,390.00	10,272.05	7,390.00	55.46	52.86	90.00	2,454.47	-1,461.61	505.28	404.05	101.23	4.992	
10,400.00	7,390.00	10,372.04	7,390.00	56.58	54.13	90.00	2,554.45	-1,462.15	503.87	400.04	103.83	4.853	
10,500.00	7,390.00	10,472.03	7,390.00	57.73	55.43	90.00	2,654.44	-1,462.69	502.45	395.99	106.46	4.719	
10,600.00	7,390.00	10,572.02	7,390.00	58.90	56.73	90.00	2,754.43	-1,463.23	501.04	391.91	109.13	4.591	
10,700.00	7,390.00	10,672.01	7,390.00	60.09	58.06	90.00	2,854.42	-1,463.77	499.63	387.81	111.81	4.468	
10,800.00	7,390.00	10,772.00	7,390.00	61.30	59.39	90.00	2,954.41	-1,464.31	498.21	383.68	114.53	4.350	
10,900.00	7,390.00	10,871.99	7,390.00	62.54	60.74	90.00	3,054.40	-1,464.86	496.80	379.54	117.26	4.237	
11,000.00	7,390.00	10,971.98	7,390.00	63.78	62.10	90.00	3,154.39	-1,465.40	495.38	375.37	120.02	4.128	
11,100.00	7,390.00	11,071.97	7,390.00	65.05	63.47	90.00	3,254.37	-1,465.94	493.97	371.18	122.80	4.023	
11,200.00	7,390.00	11,171.96	7,390.00	66.33	64.84	90.00	3,354.36	-1,466.48	492.56	366.97	125.59	3.922	
11,300.00	7,390.00	11,271.95	7,390.00	67.62	66.23	90.00	3,454.35	-1,467.02	491.14	362.74	128.40	3.825	
11,400.00	7,390.00	11,371.94	7,390.00	68.93	67.63	90.00	3,554.34	-1,467.56	489.73	358.50	131.23	3.732	
11,500.00	7,390.00	11,471.93	7,390.00	70.25	69.03	90.00	3,654.33	-1,468.10	488.32	354.24	134.07	3.642	
11,600.00	7,390.00	11,571.92	7,390.00	71.58	70.45	90.00	3,754.32	-1,468.64	486.90	349.97	136.93	3.556	
11,700.00	7,390.00	11,671.91	7,390.00	72.92	71.87	90.00	3,854.31	-1,469.18	485.49	345.69	139.80	3.473	
11,800.00	7,390.00	11,771.90	7,390.00	74.27	73.29	90.00	3,954.29	-1,469.72	484.07	341.39	142.68	3.393	
11,900.00	7,390.00	11,871.89	7,390.00	75.63	74.73	90.00	4,054.28	-1,470.26	482.66	337.09	145.57	3.316	
12,000.00	7,390.00	11,971.88	7,390.00	77.00	76.17	90.00	4,154.27	-1,470.81	481.25	332.77	148.48	3.241	
12,100.00	7,390.00	12,071.87	7,390.00	78.38	77.61	90.00	4,254.26	-1,471.35	479.83	328.44	151.40	3.169	
12,200.00	7,390.00	12,171.86	7,390.00	79.76	79.06	90.00	4,354.25	-1,471.89	478.42	324.10	154.32	3.100	
12,300.00	7,390.00	12,271.85	7,390.00	81.15	80.52	90.00	4,454.24	-1,472.43	477.01	319.75	157.25	3.033	
12,400.00	7,390.00	12,371.84	7,390.00	82.55	81.98	90.00	4,554.23	-1,472.97	475.59	315.39	160.20	2.969	
12,500.00	7,390.00	12,471.83	7,390.00	83.96	83.44	90.00	4,654.21	-1,473.51	474.18	311.03	163.15	2.906	
12,600.00	7,390.00	12,571.82	7,390.00	85.37	84.91	90.00	4,754.20	-1,474.05	472.77	306.66	166.11	2.846	
12,700.00	7,390.00	12,671.81	7,390.00	86.79	86.38	90.00	4,854.19	-1,474.59	471.35	302.28	169.08	2.788	
12,800.00	7,390.00	12,771.80	7,390.00	88.21	87.86	90.00	4,954.18	-1,475.13	469.94	297.89	172.05	2.731	
12,900.00	7,390.00	12,871.79	7,390.00	89.64	89.34	90.00	5,054.17	-1,475.67	468.52	293.49	175.03	2.677	
13,000.00	7,390.00	12,971.78	7,390.00	91.08	90.82	90.00	5,154.16	-1,476.22	467.11	289.09	178.02	2.624	
13,100.00	7,390.00	13,071.77	7,390.00	92.52	92.31	90.00	5,254.14	-1,476.76	465.70	284.69	181.01	2.573	
13,200.00	7,390.00	13,171.76	7,390.00	93.96	93.80	90.00	5,354.13	-1,477.30	464.28	280.27	184.01	2.523	
13,300.00	7,390.00	13,271.75	7,390.00	95.41	95.30	90.00	5,454.12	-1,477.84	462.87	275.86	187.01	2.475	
13,400.00	7,390.00	13,371.74	7,390.00	96.86	96.79	90.00	5,554.11	-1,478.38	461.46	271.43	190.02	2.428	
13,500.00	7,390.00	13,471.73	7,390.00	98.31	98.29	90.00	5,654.10	-1,478.92	460.04	267.01	193.04	2.383	
13,600.00	7,390.00	13,571.72	7,390.00	99.77	99.79	90.00	5,754.09	-1,479.46	458.63	262.57	196.05	2.339	
13,700.00	7,390.00	13,671.71	7,390.00	101.24	101.30	90.00	5,854.08	-1,480.00	457.22	258.14	199.08	2.297	
13,800.00	7,390.00	13,771.70	7,390.00	102.70	102.81	90.00	5,954.06	-1,480.54	455.80	253.70	202.11	2.255	
13,900.00	7,390.00	13,871.69	7,390.00	104.17	104.32	90.00	6,054.05	-1,481.08	454.39	249.25	205.14	2.215	
13,953.41	7,390.00	13,925.09	7,390.00	104.96	105.12	90.00	6,107.45	-1,481.37	453.63	246.87	206.76	2.194	
13,977.04	7,390.00	13,948.72	7,390.00	105.31	105.48	90.00	6,131.08	-1,481.50	453.47	245.99	207.48	2.186	
14,000.00	7,390.00	13,971.68	7,390.00	105.65	105.83	90.00	6,154.04	-1,481.63	453.62	245.45	208.18	2.179	
14,064.18	7,390.00	14,035.83	7,390.00	106.63	106.80	90.00	6,218.19	-1,481.97	455.74	245.59	210.15	2.169	

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 4B-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 4B-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 #4	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	7,390.00	14,071.60	7,390.00	107.18	107.34	90.00	6,253.96	-1,482.17	457.60	246.35	211.25	2.166					
14,200.00	7,390.00	14,171.46	7,390.00	108.73	108.86	90.00	6,353.82	-1,482.71	462.82	248.48	214.33	2.159					
14,300.00	7,390.00	14,271.32	7,390.00	110.28	110.37	90.00	6,453.68	-1,483.25	468.03	250.61	217.42	2.153					
14,400.00	7,390.00	14,371.19	7,390.00	111.83	111.89	90.00	6,553.54	-1,483.79	473.24	252.73	220.51	2.146					
14,500.00	7,390.00	14,471.05	7,390.00	113.38	113.41	90.00	6,653.41	-1,484.33	478.45	254.84	223.61	2.140					
14,600.00	7,390.00	14,570.92	7,390.00	114.94	114.93	90.00	6,753.27	-1,484.87	483.66	256.96	226.71	2.133					
14,700.00	7,390.00	14,670.78	7,390.00	116.49	116.45	90.00	6,853.13	-1,485.41	488.87	259.07	229.81	2.127					
14,779.56	7,390.00	14,749.80	7,390.00	117.73	117.66	90.00	6,932.15	-1,485.84	493.02	260.78	232.24	2.123 SF					

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - SULLIVAN 4E-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.75	0.13	29.93	29.93				
100.00	100.00	100.00	100.00	0.14	0.14	89.75	0.13	29.93	29.93	29.65	0.28	108.436	
200.00	200.00	200.00	200.00	0.50	0.50	89.75	0.13	29.93	29.93	28.94	0.99	30.143	
300.00	300.00	300.00	300.00	0.85	0.85	89.75	0.13	29.93	29.93	28.22	1.71	17.504 CC, ES	
400.00	399.98	399.98	399.98	1.20	1.21	-167.47	0.13	29.93	31.63	29.21	2.42	13.081	
500.00	499.84	499.84	499.84	1.56	1.57	-169.22	0.13	29.93	36.76	33.63	3.13	11.754	
600.00	599.45	599.45	599.45	1.92	1.93	-171.25	0.13	29.93	45.35	41.51	3.84	11.802	
700.00	698.70	700.62	700.59	2.29	2.28	-172.65	-0.50	28.28	55.75	51.18	4.56	12.217	
800.00	797.47	802.16	801.99	2.69	2.63	-173.21	-2.41	23.27	66.20	60.90	5.30	12.496	
900.00	895.62	904.07	903.50	3.11	2.99	-173.27	-5.62	14.87	76.68	70.63	6.05	12.673	
1,000.00	993.06	1,006.36	1,005.00	3.57	3.36	-173.00	-10.14	3.05	87.17	80.35	6.82	12.788	
1,100.00	1,089.64	1,109.01	1,106.33	4.06	3.75	-172.50	-15.97	-12.20	97.66	90.07	7.59	12.861	
1,155.17	1,142.53	1,164.85	1,161.22	4.35	3.98	-172.18	-19.64	-21.81	103.57	95.56	8.01	12.925	
1,200.00	1,185.37	1,209.39	1,204.97	4.59	4.16	-171.97	-22.61	-29.58	108.68	100.33	8.35	13.019	
1,300.00	1,280.95	1,308.73	1,302.56	5.14	4.57	-171.58	-29.24	-46.93	120.09	110.99	9.10	13.201	
1,400.00	1,376.53	1,408.07	1,400.16	5.71	4.99	-171.25	-35.87	-64.27	131.50	121.65	9.86	13.343	
1,500.00	1,472.11	1,507.42	1,497.75	6.28	5.42	-170.98	-42.49	-81.62	142.92	132.29	10.62	13.454	
1,600.00	1,567.68	1,606.76	1,595.34	6.86	5.85	-170.75	-49.12	-98.96	154.34	142.94	11.40	13.543	
1,700.00	1,663.26	1,706.11	1,692.94	7.45	6.28	-170.54	-55.75	-116.31	165.76	153.58	12.18	13.614	
1,800.00	1,758.84	1,805.45	1,790.53	8.03	6.72	-170.37	-62.38	-133.65	177.18	164.22	12.96	13.672	
1,900.00	1,854.42	1,904.79	1,888.13	8.63	7.16	-170.21	-69.00	-151.00	188.60	174.85	13.75	13.720	
2,000.00	1,949.99	2,004.14	1,985.72	9.22	7.60	-170.08	-75.63	-168.34	200.03	185.49	14.54	13.760	
2,100.00	2,045.57	2,103.48	2,083.31	9.82	8.05	-169.96	-82.26	-185.69	211.45	196.12	15.33	13.794	
2,200.00	2,141.15	2,202.83	2,180.91	10.41	8.49	-169.85	-88.89	-203.03	222.88	206.75	16.13	13.822	
2,300.00	2,236.73	2,302.17	2,278.50	11.01	8.94	-169.75	-95.52	-220.38	234.30	217.38	16.92	13.846	
2,400.00	2,332.30	2,401.52	2,376.09	11.61	9.39	-169.66	-102.14	-237.72	245.73	228.01	17.72	13.866	
2,500.00	2,427.88	2,500.86	2,473.69	12.21	9.84	-169.58	-108.77	-255.07	257.16	238.64	18.52	13.884	
2,600.00	2,523.46	2,600.20	2,571.28	12.82	10.29	-169.50	-115.40	-272.41	268.59	249.27	19.32	13.899	
2,700.00	2,619.04	2,699.55	2,668.87	13.42	10.74	-169.44	-122.03	-289.76	280.02	259.89	20.13	13.912	
2,800.00	2,714.61	2,798.89	2,766.47	14.02	11.19	-169.37	-128.65	-307.10	291.45	270.52	20.93	13.924	
2,900.00	2,810.19	2,898.24	2,864.06	14.63	11.64	-169.31	-135.28	-324.45	302.88	281.14	21.74	13.934	
3,000.00	2,905.77	2,997.58	2,961.65	15.23	12.10	-169.26	-141.91	-341.79	314.31	291.77	22.54	13.943	
3,100.00	3,001.35	3,096.93	3,059.25	15.84	12.55	-169.21	-148.54	-359.14	325.74	302.39	23.35	13.951	
3,200.00	3,096.92	3,196.27	3,156.84	16.44	13.00	-169.16	-155.16	-376.48	337.17	313.01	24.16	13.958	
3,300.00	3,192.50	3,295.61	3,254.43	17.05	13.46	-169.12	-161.79	-393.83	348.60	323.64	24.96	13.964	
3,400.00	3,288.08	3,394.96	3,352.03	17.65	13.91	-169.08	-168.42	-411.17	360.03	334.26	25.77	13.970	
3,500.00	3,383.66	3,494.30	3,449.62	18.26	14.37	-169.04	-175.05	-428.52	371.46	344.88	26.58	13.975	
3,600.00	3,479.23	3,593.65	3,547.22	18.87	14.82	-169.00	-181.68	-445.86	382.89	355.50	27.39	13.979	
3,700.00	3,574.81	3,692.99	3,644.81	19.47	15.28	-168.97	-188.30	-463.21	394.33	366.12	28.20	13.983	
3,800.00	3,670.39	3,792.33	3,742.40	20.08	15.73	-168.94	-194.93	-480.55	405.76	376.75	29.01	13.987	
3,900.00	3,765.97	3,891.68	3,840.00	20.69	16.19	-168.91	-201.56	-497.90	417.19	387.37	29.82	13.990	
4,000.00	3,861.54	3,991.02	3,937.59	21.30	16.64	-168.88	-208.19	-515.24	428.62	397.99	30.63	13.993	
4,100.00	3,957.12	4,090.37	4,035.18	21.90	17.10	-168.85	-214.81	-532.59	440.05	408.61	31.44	13.995	
4,200.00	4,052.70	4,189.71	4,132.78	22.51	17.55	-168.82	-221.44	-549.93	451.48	419.23	32.25	13.998	
4,300.00	4,148.28	4,289.06	4,230.37	23.12	18.01	-168.80	-228.07	-567.28	462.92	429.85	33.07	14.000	
4,400.00	4,243.85	4,388.40	4,327.96	23.73	18.47	-168.78	-234.70	-584.62	474.35	440.47	33.88	14.002	
4,500.00	4,339.43	4,487.74	4,425.56	24.34	18.92	-168.75	-241.33	-601.97	485.78	451.09	34.69	14.004	
4,600.00	4,435.01	4,587.09	4,523.15	24.95	19.38	-168.73	-247.95	-619.31	497.21	461.71	35.50	14.005	
4,700.00	4,530.59	4,686.43	4,620.74	25.55	19.83	-168.71	-254.58	-636.65	508.65	472.33	36.31	14.007	
4,800.00	4,626.16	4,785.78	4,718.34	26.16	20.29	-168.69	-261.21	-654.00	520.08	482.95	37.13	14.008	
4,900.00	4,721.74	4,885.12	4,815.93	26.77	20.75	-168.67	-267.84	-671.34	531.51	493.57	37.94	14.009	
5,000.00	4,817.32	4,984.46	4,913.52	27.38	21.20	-168.66	-274.46	-688.69	542.94	504.19	38.75	14.010	

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4E-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.00	4,912.90	5,083.81	5,011.12	27.99	21.66	-168.64	-281.09	-706.03	554.38	514.81	39.57	14.011	
5,200.00	5,008.47	5,183.15	5,108.71	28.60	22.12	-168.62	-287.72	-723.38	565.81	525.43	40.38	14.012	
5,300.00	5,104.05	5,282.50	5,206.31	29.21	22.58	-168.61	-294.35	-740.72	577.24	536.05	41.19	14.013	
5,400.00	5,199.63	5,381.84	5,303.90	29.82	23.03	-168.59	-300.98	-758.07	588.67	546.67	42.01	14.014	
5,500.00	5,295.21	5,481.19	5,401.49	30.43	23.49	-168.58	-307.60	-775.41	600.11	557.29	42.82	14.014	
5,600.00	5,390.78	5,580.53	5,499.09	31.03	23.95	-168.56	-314.23	-792.76	611.54	567.91	43.63	14.015	
5,700.00	5,486.36	5,679.87	5,596.68	31.64	24.40	-168.55	-320.86	-810.10	622.97	578.53	44.45	14.016	
5,800.00	5,581.94	5,779.22	5,694.27	32.25	24.86	-168.54	-327.49	-827.45	634.41	589.14	45.26	14.016	
5,900.00	5,677.52	5,878.56	5,791.87	32.86	25.32	-168.52	-334.11	-844.79	645.84	599.76	46.08	14.017	
6,000.00	5,773.09	5,977.91	5,889.46	33.47	25.78	-168.51	-340.74	-862.14	657.27	610.38	46.89	14.017	
6,100.00	5,868.67	6,077.25	5,987.05	34.08	26.23	-168.50	-347.37	-879.48	668.71	621.00	47.71	14.018	
6,200.00	5,964.25	6,176.59	6,084.65	34.69	26.69	-168.49	-354.00	-896.83	680.14	631.62	48.52	14.018	
6,300.00	6,059.83	6,275.94	6,182.24	35.30	27.15	-168.48	-360.62	-914.17	691.57	642.24	49.33	14.018	
6,400.00	6,155.40	6,375.28	6,279.83	35.91	27.61	-168.47	-367.25	-931.52	703.00	652.86	50.15	14.018	
6,500.00	6,250.98	6,474.63	6,377.43	36.52	28.06	-168.46	-373.88	-948.86	714.44	663.47	50.96	14.019	
6,600.00	6,346.56	6,573.97	6,475.02	37.13	28.52	-168.45	-380.51	-966.21	725.87	674.09	51.78	14.019	
6,700.00	6,442.14	6,673.32	6,572.61	37.74	28.98	-168.44	-387.14	-983.55	737.30	684.71	52.59	14.019	
6,800.00	6,537.71	6,772.66	6,670.21	38.35	29.44	-168.43	-393.76	-1,000.90	748.74	695.33	53.41	14.019	
6,900.00	6,633.29	6,870.90	6,766.77	38.96	29.89	-168.50	-399.26	-1,018.06	760.20	706.00	54.20	14.027	
7,008.07	6,736.58	6,973.52	6,867.53	39.62	30.30	-169.45	-393.20	-1,036.04	773.04	718.19	54.85	14.095	
7,050.00	6,776.72	7,012.32	6,905.24	39.87	30.45	177.16	-387.10	-1,042.79	778.21	723.16	55.05	14.137	
7,100.00	6,824.59	7,058.19	6,949.33	40.15	30.60	161.23	-377.23	-1,050.70	784.39	729.11	55.28	14.190	
7,150.00	6,872.19	7,103.69	6,992.34	40.42	30.74	147.07	-364.62	-1,058.43	790.51	735.02	55.49	14.245	
7,200.00	6,919.22	7,150.00	7,035.23	40.67	30.87	135.52	-348.97	-1,066.15	796.53	740.82	55.70	14.299	
7,250.00	6,965.38	7,193.74	7,074.74	40.90	30.98	126.49	-331.63	-1,073.28	802.37	746.47	55.90	14.354	
7,300.00	7,010.41	7,238.38	7,113.91	41.10	31.09	119.48	-311.43	-1,080.36	808.00	751.91	56.09	14.406	
7,350.00	7,054.01	7,282.82	7,151.59	41.29	31.18	114.01	-288.91	-1,087.20	813.36	757.08	56.27	14.454	
7,400.00	7,095.93	7,327.10	7,187.70	41.46	31.26	109.68	-264.15	-1,093.76	818.40	761.95	56.45	14.497	
7,450.00	7,135.90	7,371.25	7,222.14	41.60	31.33	106.23	-237.25	-1,100.04	823.09	766.45	56.63	14.533	
7,500.00	7,173.67	7,415.31	7,254.80	41.73	31.40	103.45	-208.30	-1,106.01	827.39	770.57	56.82	14.562	
7,550.00	7,209.02	7,459.32	7,285.62	41.84	31.45	101.22	-177.41	-1,111.67	831.27	774.26	57.01	14.582	
7,600.00	7,241.72	7,503.30	7,314.49	41.94	31.50	99.42	-144.67	-1,116.99	834.70	777.50	57.21	14.591	
7,650.00	7,271.57	7,550.00	7,342.92	42.02	31.54	97.99	-108.00	-1,122.25	837.67	780.24	57.43	14.586	
7,700.00	7,298.40	7,591.32	7,366.06	42.08	31.56	96.87	-74.05	-1,126.55	840.15	782.51	57.64	14.575	
7,750.00	7,322.02	7,635.42	7,388.59	42.13	31.59	96.03	-36.38	-1,130.77	842.13	784.25	57.88	14.548	
7,800.00	7,342.31	7,679.62	7,408.84	42.17	31.61	95.44	2.71	-1,134.59	843.61	785.47	58.15	14.508	
7,850.00	7,359.13	7,723.95	7,426.72	42.21	31.63	95.08	43.13	-1,137.99	844.59	786.16	58.43	14.455	
7,900.00	7,372.37	7,768.45	7,442.16	42.23	31.65	94.93	84.75	-1,140.97	845.06	786.32	58.74	14.387	
7,950.00	7,381.97	7,813.15	7,455.07	42.25	31.67	94.98	127.46	-1,143.50	845.04	785.97	59.07	14.306	
8,000.00	7,387.85	7,858.08	7,465.38	42.26	31.69	95.22	171.13	-1,145.57	844.53	785.11	59.42	14.213	
8,053.41	7,390.00	7,906.36	7,473.44	42.28	31.72	95.68	218.70	-1,147.26	843.47	783.65	59.82	14.100	
8,100.00	7,390.00	7,950.00	7,477.98	42.29	31.76	96.00	262.08	-1,148.31	842.44	782.25	60.19	13.996	
8,200.00	7,390.00	8,044.31	7,480.00	42.35	31.88	96.14	356.34	-1,149.18	840.87	779.89	60.98	13.789	
8,300.00	7,390.00	8,144.30	7,480.00	42.44	32.09	96.16	456.33	-1,149.72	839.47	777.54	61.92	13.557	
8,400.00	7,390.00	8,244.29	7,480.00	42.59	32.41	96.17	556.31	-1,150.26	838.06	775.05	63.01	13.301	
8,500.00	7,390.00	8,344.28	7,480.00	42.77	32.85	96.18	656.30	-1,150.80	836.66	772.43	64.23	13.026	
8,600.00	7,390.00	8,444.27	7,480.00	43.01	33.40	96.19	756.29	-1,151.34	835.25	769.67	65.58	12.736	
8,700.00	7,390.00	8,544.26	7,480.00	43.30	34.04	96.20	856.28	-1,151.88	833.85	766.79	67.05	12.435	
8,800.00	7,390.00	8,644.25	7,480.00	43.65	34.77	96.21	956.27	-1,152.42	832.44	763.80	68.64	12.128	
8,900.00	7,390.00	8,744.24	7,480.00	44.05	35.57	96.22	1,056.26	-1,152.96	831.03	760.70	70.33	11.816	
9,000.00	7,390.00	8,844.23	7,480.00	44.52	36.43	96.23	1,156.25	-1,153.51	829.63	757.51	72.12	11.504	
9,100.00	7,390.00	8,944.22	7,480.00	45.04	37.35	96.24	1,256.23	-1,154.05	828.22	754.22	74.00	11.192	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - SULLIVAN 4E-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: O-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
9,200.00	7,390.00	9,044.21	7,480.00	45.63	38.31	96.25	1,356.22	-1,154.59	826.82	750.85	75.96	10.885		
9,300.00	7,390.00	9,144.20	7,480.00	46.28	39.32	96.26	1,456.21	-1,155.13	825.41	747.41	78.00	10.582		
9,400.00	7,390.00	9,244.19	7,480.00	46.98	40.37	96.27	1,556.20	-1,155.67	824.01	743.89	80.12	10.285		
9,500.00	7,390.00	9,344.18	7,480.00	47.74	41.45	96.28	1,656.19	-1,156.21	822.60	740.30	82.30	9.995		
9,600.00	7,390.00	9,444.17	7,480.00	48.56	42.56	96.29	1,756.18	-1,156.75	821.20	736.66	84.54	9.714		
9,700.00	7,390.00	9,544.16	7,480.00	49.42	43.71	96.30	1,856.17	-1,157.29	819.79	732.95	86.84	9.441		
9,800.00	7,390.00	9,644.15	7,480.00	50.33	44.88	96.31	1,956.15	-1,157.84	818.38	729.20	89.19	9.176		
9,900.00	7,390.00	9,744.14	7,480.00	51.29	46.07	96.33	2,056.14	-1,158.38	816.98	725.40	91.58	8.921		
10,000.00	7,390.00	9,844.13	7,480.00	52.28	47.29	96.34	2,156.13	-1,158.92	815.57	721.55	94.03	8.674		
10,100.00	7,390.00	9,944.12	7,480.00	53.31	48.53	96.35	2,256.12	-1,159.46	814.17	717.66	96.51	8.436		
10,200.00	7,390.00	10,044.11	7,480.00	54.37	49.79	96.36	2,356.11	-1,160.00	812.76	713.73	99.03	8.207		
10,300.00	7,390.00	10,144.10	7,480.00	55.46	51.07	96.37	2,456.10	-1,160.54	811.36	709.77	101.58	7.987		
10,400.00	7,390.00	10,244.09	7,480.00	56.58	52.37	96.38	2,556.09	-1,161.08	809.95	705.78	104.17	7.775		
10,500.00	7,390.00	10,344.08	7,480.00	57.73	53.68	96.39	2,656.07	-1,161.62	808.55	701.76	106.79	7.571		
10,600.00	7,390.00	10,444.07	7,480.00	58.90	55.00	96.40	2,756.06	-1,162.17	807.14	697.71	109.44	7.375		
10,700.00	7,390.00	10,544.06	7,480.00	60.09	56.34	96.41	2,856.05	-1,162.71	805.74	693.63	112.11	7.187		
10,800.00	7,390.00	10,644.05	7,480.00	61.30	57.69	96.43	2,956.04	-1,163.25	804.33	689.53	114.81	7.006		
10,900.00	7,390.00	10,744.04	7,480.00	62.54	59.05	96.44	3,056.03	-1,163.79	802.93	685.40	117.52	6.832		
11,000.00	7,390.00	10,844.03	7,480.00	63.78	60.43	96.45	3,156.02	-1,164.33	801.52	681.26	120.26	6.665		
11,100.00	7,390.00	10,944.02	7,480.00	65.05	61.81	96.46	3,256.00	-1,164.87	800.12	677.09	123.02	6.504		
11,200.00	7,390.00	11,044.01	7,480.00	66.33	63.20	96.47	3,355.99	-1,165.41	798.71	672.91	125.80	6.349		
11,300.00	7,390.00	11,144.00	7,480.00	67.62	64.60	96.48	3,455.98	-1,165.95	797.31	668.71	128.60	6.200		
11,400.00	7,390.00	11,243.99	7,480.00	68.93	66.01	96.49	3,555.97	-1,166.50	795.90	664.50	131.41	6.057		
11,500.00	7,390.00	11,343.98	7,480.00	70.25	67.43	96.51	3,655.96	-1,167.04	794.50	660.27	134.23	5.919		
11,600.00	7,390.00	11,443.97	7,480.00	71.58	68.86	96.52	3,755.95	-1,167.58	793.09	656.02	137.07	5.786		
11,700.00	7,390.00	11,543.96	7,480.00	72.92	70.29	96.53	3,855.94	-1,168.12	791.69	651.77	139.92	5.658		
11,800.00	7,390.00	11,643.95	7,480.00	74.27	71.73	96.54	3,955.92	-1,168.66	790.28	647.50	142.79	5.535		
11,900.00	7,390.00	11,743.94	7,480.00	75.63	73.17	96.55	4,055.91	-1,169.20	788.88	643.21	145.66	5.416		
12,000.00	7,390.00	11,843.93	7,480.00	77.00	74.62	96.56	4,155.90	-1,169.74	787.47	638.92	148.55	5.301		
12,100.00	7,390.00	11,943.92	7,480.00	78.38	76.30	96.58	4,270.78	-1,170.89	785.69	633.48	152.22	5.162		
12,200.00	7,390.00	12,095.86	7,480.00	79.76	78.36	96.65	4,407.65	-1,177.52	780.02	623.14	156.88	4.972		
12,300.00	7,390.00	12,206.97	7,480.00	81.15	80.07	96.74	4,518.37	-1,186.88	770.73	610.39	160.34	4.807		
12,400.00	7,390.00	12,306.51	7,480.00	82.55	81.61	96.82	4,617.53	-1,195.56	761.21	597.89	163.32	4.661		
12,500.00	7,390.00	12,406.05	7,480.00	83.96	83.16	96.91	4,716.69	-1,204.23	751.70	585.38	166.31	4.520		
12,600.00	7,390.00	12,505.59	7,480.00	85.37	84.71	97.00	4,815.85	-1,212.91	742.18	572.87	169.31	4.384		
12,700.00	7,390.00	12,605.13	7,480.00	86.79	86.26	97.09	4,915.01	-1,221.59	732.67	560.35	172.32	4.252		
12,800.00	7,390.00	12,704.67	7,480.00	88.21	87.82	97.18	5,014.17	-1,230.26	723.16	547.83	175.33	4.125		
12,900.00	7,390.00	12,804.21	7,480.00	89.64	89.38	97.28	5,113.33	-1,238.94	713.65	535.31	178.34	4.002		
13,000.00	7,390.00	12,903.75	7,480.00	91.08	90.94	97.38	5,212.50	-1,247.61	704.14	522.78	181.36	3.883		
13,100.00	7,390.00	13,003.29	7,480.00	92.52	92.51	97.48	5,311.66	-1,256.29	694.64	510.25	184.39	3.767		
13,200.00	7,390.00	13,102.83	7,480.00	93.96	94.08	97.58	5,410.82	-1,264.96	685.13	497.72	187.42	3.656		
13,300.00	7,390.00	13,202.37	7,480.00	95.41	95.66	97.69	5,509.98	-1,273.64	675.63	485.19	190.45	3.548		
13,400.00	7,390.00	13,290.06	7,480.00	96.86	97.04	97.78	5,597.37	-1,280.82	666.70	473.77	192.93	3.456		
13,500.00	7,390.00	13,371.23	7,480.00	98.31	98.30	97.84	5,678.42	-1,285.30	660.37	465.39	194.98	3.387		
13,600.00	7,390.00	13,452.63	7,480.00	99.77	99.54	97.88	5,759.79	-1,287.48	656.86	459.97	196.88	3.336		
13,674.87	7,390.00	13,513.65	7,480.00	100.87	100.46	97.88	5,820.80	-1,287.59	656.07	457.86	198.21	3.310		
13,700.00	7,390.00	13,534.13	7,480.00	101.24	100.77	97.88	5,841.28	-1,287.34	656.15	457.52	198.63	3.303		
13,800.00	7,390.00	13,615.60	7,480.00	102.70	101.97	97.86	5,922.71	-1,284.89	658.27	458.04	200.23	3.288		
13,900.00	7,390.00	13,700.00	7,480.00	104.17	103.19	97.81	6,006.96	-1,279.91	663.21	461.28	201.93	3.284 SF		
13,953.41	7,390.00	13,740.21	7,480.00	104.96	103.75	97.78	6,047.04	-1,276.66	666.98	464.61	202.37	3.296		
14,000.00	7,390.00	13,781.38	7,480.00	105.65	104.33	97.75	6,088.03	-1,272.76	671.58	468.32	203.27	3.304		
14,064.18	7,390.00	13,840.59	7,480.00	106.63	105.16	97.70	6,146.92	-1,266.72	680.48	475.73	204.75	3.323		

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design													S26-T2N-R68W - SULLIVAN 4E-26H-P268 - OH - PLAN #2		Offset Site Error:		0.00 usft
Survey Program:													0-MWD+HDGM		Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							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					
14,100.00	7,390.00	13,875.95	7,480.00	107.18	105.65	97.63	6,182.10	-1,263.11	686.13	480.32	205.81	3.334					
14,200.00	7,390.00	13,974.67	7,480.00	108.73	107.04	97.46	6,280.31	-1,253.04	701.90	493.15	208.75	3.362					
14,300.00	7,390.00	14,073.40	7,480.00	110.28	108.42	97.30	6,378.52	-1,242.97	717.68	505.98	211.69	3.390					
14,400.00	7,390.00	14,172.13	7,480.00	111.83	109.81	97.14	6,476.73	-1,232.90	733.46	518.81	214.64	3.417					
14,500.00	7,390.00	14,270.85	7,480.00	113.38	111.20	96.99	6,574.94	-1,222.83	749.25	531.65	217.60	3.443					
14,600.00	7,390.00	14,369.58	7,480.00	114.94	112.60	96.84	6,673.16	-1,212.76	765.04	544.48	220.56	3.469					
14,700.00	7,390.00	14,468.31	7,480.00	116.49	114.00	96.70	6,771.37	-1,202.69	780.84	557.31	223.53	3.493					
14,779.56	7,390.00	14,546.86	7,480.00	117.73	115.11	96.60	6,849.51	-1,194.68	793.41	567.52	225.89	3.512					

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - SULLIVAN 4F-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
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	300.43	300.41	0.85	0.84	92.58	-1.77	39.40	39.44	37.74	1.70	23.188		
338.63	338.63	339.18	339.13	0.99	0.98	-161.77	-3.29	38.85	39.24	37.27	1.97	19.923 CC		
400.00	399.98	401.16	401.00	1.20	1.20	-157.66	-6.48	37.31	39.49	37.08	2.41	16.387 ES		
500.00	499.84	502.23	501.75	1.56	1.56	-150.72	-12.65	32.13	40.49	37.35	3.15	12.874		
600.00	599.45	603.23	602.11	1.92	1.94	-143.77	-20.01	23.61	42.25	38.35	3.90	10.845		
700.00	698.70	703.44	701.37	2.29	2.33	-137.88	-28.21	12.59	45.32	40.68	4.64	9.762		
800.00	797.47	803.24	800.21	2.69	2.73	-135.46	-36.44	1.44	51.12	45.71	5.41	9.442		
900.00	895.62	902.89	898.89	3.11	3.13	-135.92	-44.66	-9.69	59.44	53.23	6.21	9.574		
1,000.00	993.06	1,002.26	997.30	3.57	3.54	-138.18	-52.85	-20.78	70.32	63.31	7.02	10.023		
1,100.00	1,089.64	1,101.22	1,095.30	4.06	3.94	-141.31	-61.01	-31.84	83.97	76.14	7.83	10.727		
1,155.17	1,142.53	1,155.60	1,149.16	4.35	4.17	-143.16	-65.50	-37.91	92.77	84.50	8.28	11.208		
1,200.00	1,185.37	1,199.71	1,192.84	4.59	4.35	-144.64	-69.13	-42.84	100.34	91.70	8.64	11.612		
1,300.00	1,280.95	1,298.13	1,290.30	5.14	4.75	-147.26	-77.25	-53.83	117.40	107.95	9.45	12.428		
1,400.00	1,376.53	1,396.54	1,387.76	5.71	5.16	-149.21	-85.37	-64.82	134.64	124.39	10.25	13.131		
1,500.00	1,472.11	1,494.95	1,485.22	6.28	5.57	-150.72	-93.48	-75.81	152.00	140.94	11.06	13.742		
1,600.00	1,567.68	1,593.36	1,582.68	6.86	5.97	-151.92	-101.60	-86.80	169.44	157.57	11.87	14.274		
1,700.00	1,663.26	1,691.78	1,680.14	7.45	6.38	-152.90	-109.71	-97.79	186.94	174.26	12.68	14.743		
1,800.00	1,758.84	1,790.19	1,777.60	8.03	6.79	-153.70	-117.83	-108.79	204.48	190.99	13.49	15.157		
1,900.00	1,854.42	1,888.60	1,875.06	8.63	7.20	-154.38	-125.95	-119.78	222.05	207.75	14.30	15.525		
2,000.00	1,949.99	1,987.01	1,972.52	9.22	7.60	-154.97	-134.06	-130.77	239.65	224.54	15.11	15.855		
2,100.00	2,045.57	2,085.42	2,069.98	9.82	8.01	-155.47	-142.18	-141.76	257.27	241.34	15.93	16.152		
2,200.00	2,141.15	2,183.84	2,167.43	10.41	8.42	-155.90	-150.29	-152.75	274.91	258.17	16.74	16.421		
2,300.00	2,236.73	2,282.25	2,264.89	11.01	8.83	-156.29	-158.41	-163.74	292.56	275.00	17.56	16.664		
2,400.00	2,332.30	2,380.66	2,362.35	11.61	9.24	-156.63	-166.53	-174.74	310.22	291.85	18.37	16.887		
2,500.00	2,427.88	2,479.07	2,459.81	12.21	9.65	-156.93	-174.64	-185.73	327.89	308.71	19.19	17.090		
2,600.00	2,523.46	2,577.48	2,557.27	12.82	10.06	-157.20	-182.76	-196.72	345.57	325.57	20.00	17.277		
2,700.00	2,619.04	2,675.90	2,654.73	13.42	10.47	-157.45	-190.87	-207.71	363.26	342.44	20.82	17.450		
2,800.00	2,714.61	2,774.31	2,752.19	14.02	10.88	-157.67	-198.99	-218.70	380.95	359.32	21.63	17.609		
2,900.00	2,810.19	2,872.72	2,849.65	14.63	11.28	-157.88	-207.11	-229.69	398.65	376.20	22.45	17.757		
3,000.00	2,905.77	2,971.13	2,947.11	15.23	11.69	-158.06	-215.22	-240.68	416.35	393.08	23.27	17.895		
3,100.00	3,001.35	3,069.55	3,044.57	15.84	12.10	-158.23	-223.34	-251.68	434.06	409.97	24.08	18.023		
3,200.00	3,096.92	3,167.96	3,142.02	16.44	12.51	-158.39	-231.45	-262.67	451.77	426.86	24.90	18.142		
3,300.00	3,192.50	3,266.37	3,239.48	17.05	12.92	-158.54	-239.57	-273.66	469.48	443.76	25.72	18.254		
3,400.00	3,288.08	3,364.78	3,336.94	17.65	13.33	-158.67	-247.69	-284.65	487.19	460.66	26.54	18.360		
3,500.00	3,383.66	3,463.19	3,434.40	18.26	13.74	-158.80	-255.80	-295.64	504.91	477.56	27.35	18.458		
3,600.00	3,479.23	3,561.61	3,531.86	18.87	14.15	-158.92	-263.92	-306.63	522.63	494.46	28.17	18.551		
3,700.00	3,574.81	3,660.02	3,629.32	19.47	14.56	-159.03	-272.03	-317.63	540.35	511.36	28.99	18.639		
3,800.00	3,670.39	3,758.43	3,726.78	20.08	14.97	-159.13	-280.15	-328.62	558.08	528.27	29.81	18.722		
3,900.00	3,765.97	3,856.84	3,824.24	20.69	15.38	-159.22	-288.27	-339.61	575.80	545.17	30.63	18.801		
4,000.00	3,861.54	3,955.25	3,921.70	21.30	15.79	-159.31	-296.38	-350.60	593.53	562.08	31.44	18.875		
4,100.00	3,957.12	4,053.67	4,019.16	21.90	16.20	-159.40	-304.50	-361.59	611.25	578.99	32.26	18.946		
4,200.00	4,052.70	4,152.08	4,116.61	22.51	16.61	-159.48	-312.61	-372.58	628.98	595.90	33.08	19.013		
4,300.00	4,148.28	4,250.49	4,214.07	23.12	17.02	-159.56	-320.73	-383.57	646.71	612.81	33.90	19.077		
4,400.00	4,243.85	4,348.90	4,311.53	23.73	17.43	-159.63	-328.85	-394.57	664.45	629.73	34.72	19.138		
4,500.00	4,339.43	4,447.31	4,408.99	24.34	17.84	-159.70	-336.96	-405.56	682.18	646.64	35.54	19.196		
4,600.00	4,435.01	4,545.73	4,506.45	24.95	18.25	-159.76	-345.08	-416.55	699.91	663.55	36.36	19.251		
4,700.00	4,530.59	4,644.14	4,603.91	25.55	18.66	-159.82	-353.20	-427.54	717.65	680.47	37.18	19.304		
4,800.00	4,626.16	4,742.55	4,701.37	26.16	19.07	-159.88	-361.31	-438.53	735.38	697.38	38.00	19.354		
4,900.00	4,721.74	4,840.96	4,798.83	26.77	19.48	-159.94	-369.43	-449.52	753.12	714.30	38.81	19.403		

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,000.00	4,817.32	4,939.38	4,896.29	27.38	19.89	-159.99	-377.54	-460.51	770.85	731.22	39.63	19.449	
5,100.00	4,912.90	5,037.79	4,993.75	27.99	20.30	-160.04	-385.66	-471.51	788.59	748.14	40.45	19.494	
5,200.00	5,008.47	5,136.20	5,091.20	28.60	20.71	-160.09	-393.78	-482.50	806.33	765.05	41.27	19.537	
5,300.00	5,104.05	5,234.61	5,188.66	29.21	21.12	-160.14	-401.89	-493.49	824.06	781.97	42.09	19.578	
5,400.00	5,199.63	5,333.02	5,286.12	29.82	21.53	-160.18	-410.01	-504.48	841.80	798.89	42.91	19.617	
5,500.00	5,295.21	5,431.44	5,383.58	30.43	21.94	-160.22	-418.12	-515.47	859.54	815.81	43.73	19.655	
5,600.00	5,390.78	5,529.85	5,481.04	31.03	22.35	-160.26	-426.24	-526.46	877.28	832.73	44.55	19.692	
5,700.00	5,486.36	5,628.26	5,578.50	31.64	22.76	-160.30	-434.36	-537.46	895.02	849.65	45.37	19.727	
5,800.00	5,581.94	5,726.67	5,675.96	32.25	23.17	-160.34	-442.47	-548.45	912.76	866.57	46.19	19.761	
5,900.00	5,677.52	5,825.08	5,773.42	32.86	23.58	-160.38	-450.59	-559.44	930.50	883.49	47.01	19.794	
6,000.00	5,773.09	5,923.50	5,870.88	33.47	23.99	-160.41	-458.70	-570.43	948.24	900.41	47.83	19.826	
6,100.00	5,868.67	6,021.91	5,968.34	34.08	24.40	-160.45	-466.82	-581.42	965.98	917.33	48.65	19.856	
6,200.00	5,964.25	6,120.32	6,065.80	34.69	24.81	-160.48	-474.94	-592.41	983.72	934.26	49.47	19.886	
6,300.00	6,059.83	6,218.73	6,163.25	35.30	25.22	-160.51	-483.05	-603.40	1,001.47	951.18	50.29	19.915	
6,400.00	6,155.40	6,317.14	6,260.71	35.91	25.63	-160.54	-491.17	-614.40	1,019.21	968.10	51.11	19.942	
6,500.00	6,250.98	6,415.56	6,358.17	36.52	26.04	-160.57	-499.28	-625.39	1,036.95	985.02	51.93	19.969	
6,600.00	6,346.56	6,513.97	6,455.63	37.13	26.45	-160.60	-507.40	-636.38	1,054.69	1,001.94	52.75	19.995	
6,700.00	6,442.14	6,612.38	6,553.09	37.74	26.86	-160.63	-515.52	-647.37	1,072.44	1,018.87	53.57	20.020	
6,800.00	6,537.71	6,710.79	6,650.55	38.35	27.27	-160.65	-523.63	-658.36	1,090.18	1,035.79	54.39	20.044	
6,900.00	6,633.29	6,809.21	6,748.01	38.96	27.68	-160.68	-531.75	-669.35	1,107.92	1,052.71	55.21	20.068	
7,008.07	6,736.58	6,917.76	6,855.53	39.62	28.13	-160.72	-540.49	-681.48	1,127.08	1,070.98	56.11	20.089	
7,050.00	6,776.72	6,964.90	6,902.36	39.87	28.31	-173.84	-541.67	-686.71	1,134.47	1,078.01	56.46	20.094	
7,100.00	6,824.59	7,021.06	6,958.09	40.15	28.50	170.49	-539.03	-692.87	1,143.31	1,086.49	56.82	20.120	
7,150.00	6,872.19	7,077.16	7,013.42	40.42	28.67	156.52	-532.02	-698.91	1,152.15	1,095.01	57.14	20.164	
7,200.00	6,919.22	7,133.23	7,068.00	40.67	28.82	145.11	-520.69	-704.78	1,160.92	1,103.51	57.41	20.222	
7,250.00	6,965.38	7,189.29	7,121.53	40.90	28.95	136.15	-505.10	-710.47	1,169.57	1,111.93	57.64	20.291	
7,300.00	7,010.41	7,245.35	7,173.69	41.10	29.07	129.15	-485.35	-715.93	1,178.05	1,120.21	57.83	20.369	
7,350.00	7,054.01	7,301.42	7,224.18	41.29	29.17	123.63	-461.55	-721.14	1,186.30	1,128.30	58.00	20.454	
7,400.00	7,095.93	7,357.53	7,272.70	41.46	29.25	119.21	-433.84	-726.06	1,194.27	1,136.13	58.14	20.542	
7,450.00	7,135.90	7,413.67	7,318.95	41.60	29.31	115.61	-402.37	-730.66	1,201.91	1,143.65	58.26	20.630	
7,500.00	7,173.67	7,469.86	7,362.66	41.73	29.36	112.64	-367.34	-734.91	1,209.17	1,150.80	58.37	20.715	
7,550.00	7,209.02	7,526.11	7,403.54	41.84	29.40	110.16	-328.92	-738.79	1,216.02	1,157.54	58.48	20.794	
7,600.00	7,241.72	7,582.41	7,441.35	41.94	29.42	108.07	-287.37	-742.28	1,222.39	1,163.80	58.59	20.864	
7,650.00	7,271.57	7,638.78	7,475.84	42.02	29.42	106.32	-242.91	-745.34	1,228.26	1,169.55	58.71	20.921	
7,700.00	7,298.40	7,695.19	7,506.78	42.08	29.42	104.83	-195.83	-747.96	1,233.59	1,174.74	58.84	20.964	
7,750.00	7,322.02	7,751.66	7,533.96	42.13	29.41	103.59	-146.40	-750.13	1,238.33	1,179.33	59.00	20.988	
7,800.00	7,342.31	7,808.16	7,557.21	42.17	29.38	102.56	-94.95	-751.82	1,242.47	1,183.29	59.19	20.993	
7,850.00	7,359.13	7,864.69	7,576.37	42.21	29.35	101.73	-41.79	-753.02	1,245.98	1,186.58	59.40	20.976	
7,900.00	7,372.37	7,921.24	7,591.31	42.23	29.32	101.08	12.73	-753.73	1,248.83	1,189.18	59.65	20.937	
7,950.00	7,381.97	7,977.79	7,601.93	42.25	29.28	100.59	68.25	-753.95	1,251.00	1,191.08	59.92	20.876	
8,000.00	7,387.85	8,034.31	7,608.17	42.26	29.24	100.27	124.42	-753.66	1,252.49	1,192.25	60.24	20.793	
8,053.41	7,390.00	8,093.63	7,610.00	42.28	29.23	100.11	183.69	-752.83	1,253.31	1,192.71	60.60	20.683	
8,100.00	7,390.00	8,140.22	7,610.00	42.29	29.26	100.11	230.27	-752.02	1,253.71	1,192.77	60.93	20.575	
8,200.00	7,390.00	8,240.22	7,610.00	42.35	29.63	100.10	330.26	-750.27	1,254.57	1,192.82	61.75	20.317	
8,300.00	7,390.00	8,340.22	7,610.00	42.44	30.18	100.09	430.24	-748.53	1,255.42	1,192.72	62.71	20.021	
8,400.00	7,390.00	8,440.21	7,610.00	42.59	30.80	100.09	530.22	-746.78	1,256.28	1,192.48	63.80	19.691	
8,500.00	7,390.00	8,540.21	7,610.00	42.77	31.49	100.08	630.20	-745.03	1,257.14	1,192.12	65.03	19.333	
8,600.00	7,390.00	8,640.20	7,610.00	43.01	32.23	100.07	730.18	-743.29	1,258.00	1,191.63	66.37	18.953	
8,700.00	7,390.00	8,740.20	7,610.00	43.30	33.03	100.07	830.16	-741.54	1,258.86	1,191.02	67.84	18.557	
8,800.00	7,390.00	8,840.20	7,610.00	43.65	33.88	100.06	930.14	-739.80	1,259.72	1,190.31	69.41	18.149	
8,900.00	7,390.00	8,940.19	7,610.00	44.05	34.77	100.05	1,030.12	-738.05	1,260.58	1,189.49	71.09	17.733	
9,000.00	7,390.00	9,040.19	7,610.00	44.52	35.71	100.04	1,130.10	-736.31	1,261.44	1,188.59	72.85	17.315	

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4F-26H-P268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
9,100.00	7,390.00	9,140.18	7,610.00	45.04	36.69	100.04	1,230.08	-734.56	1,262.30	1,187.59	74.71	16.896		
9,200.00	7,390.00	9,240.18	7,610.00	45.63	37.71	100.03	1,330.07	-732.82	1,263.16	1,186.51	76.65	16.480		
9,300.00	7,390.00	9,340.18	7,610.00	46.28	38.76	100.02	1,430.05	-731.07	1,264.02	1,185.36	78.66	16.069		
9,400.00	7,390.00	9,440.17	7,610.00	46.98	39.85	100.02	1,530.03	-729.33	1,264.88	1,184.13	80.74	15.665		
9,500.00	7,390.00	9,540.17	7,610.00	47.74	40.97	100.01	1,630.01	-727.58	1,265.74	1,182.85	82.89	15.270		
9,600.00	7,390.00	9,640.17	7,610.00	48.56	42.11	100.00	1,729.99	-725.84	1,266.59	1,181.50	85.10	14.884		
9,700.00	7,390.00	9,740.16	7,610.00	49.42	43.28	100.00	1,829.97	-724.09	1,267.45	1,180.10	87.36	14.509		
9,800.00	7,390.00	9,840.16	7,610.00	50.33	44.48	99.99	1,929.95	-722.35	1,268.31	1,178.64	89.67	14.144		
9,900.00	7,390.00	9,940.15	7,610.00	51.29	45.69	99.98	2,029.93	-720.60	1,269.17	1,177.14	92.03	13.791		
10,000.00	7,390.00	10,040.15	7,610.00	52.28	46.93	99.98	2,129.91	-718.86	1,270.03	1,175.60	94.43	13.449		
10,100.00	7,390.00	10,140.15	7,610.00	53.31	48.18	99.97	2,229.89	-717.11	1,270.89	1,174.01	96.88	13.119		
10,200.00	7,390.00	10,240.14	7,610.00	54.37	49.46	99.96	2,329.88	-715.37	1,271.75	1,172.39	99.36	12.800		
10,300.00	7,390.00	10,340.14	7,610.00	55.46	50.75	99.96	2,429.86	-713.62	1,272.61	1,170.74	101.87	12.492		
10,400.00	7,390.00	10,440.14	7,610.00	56.58	52.05	99.95	2,529.84	-711.88	1,273.47	1,169.05	104.42	12.195		
10,500.00	7,390.00	10,540.13	7,610.00	57.73	53.37	99.94	2,629.82	-710.13	1,274.33	1,167.33	107.00	11.910		
10,600.00	7,390.00	10,640.13	7,610.00	58.90	54.70	99.93	2,729.80	-708.39	1,275.19	1,165.58	109.61	11.634		
10,700.00	7,390.00	10,740.12	7,610.00	60.09	56.05	99.93	2,829.78	-706.64	1,276.05	1,163.81	112.24	11.369		
10,800.00	7,390.00	10,840.12	7,610.00	61.30	57.40	99.92	2,929.76	-704.90	1,276.91	1,162.02	114.89	11.114		
10,900.00	7,390.00	10,940.12	7,610.00	62.54	58.77	99.91	3,029.74	-703.15	1,277.77	1,160.20	117.57	10.868		
11,000.00	7,390.00	11,040.11	7,610.00	63.78	60.14	99.91	3,129.72	-701.41	1,278.63	1,158.36	120.27	10.631		
11,100.00	7,390.00	11,140.11	7,610.00	65.05	61.53	99.90	3,229.70	-699.66	1,279.49	1,156.50	122.99	10.403		
11,200.00	7,390.00	11,240.10	7,610.00	66.33	62.92	99.89	3,329.68	-697.92	1,280.35	1,154.62	125.73	10.184		
11,300.00	7,390.00	11,340.10	7,610.00	67.62	64.32	99.89	3,429.67	-696.17	1,281.21	1,152.73	128.48	9.972		
11,400.00	7,390.00	11,440.10	7,610.00	68.93	65.73	99.88	3,529.65	-694.42	1,282.07	1,150.82	131.25	9.768		
11,500.00	7,390.00	11,540.09	7,610.00	70.25	67.15	99.87	3,629.63	-692.68	1,282.93	1,148.89	134.03	9.572		
11,600.00	7,390.00	11,640.09	7,610.00	71.58	68.57	99.87	3,729.61	-690.93	1,283.79	1,146.95	136.83	9.382		
11,700.00	7,390.00	11,740.09	7,610.00	72.92	70.00	99.86	3,829.59	-689.19	1,284.65	1,145.00	139.65	9.199		
11,800.00	7,390.00	11,840.08	7,610.00	74.27	71.43	99.85	3,929.57	-687.44	1,285.51	1,143.03	142.47	9.023		
11,900.00	7,390.00	11,940.08	7,610.00	75.63	72.87	99.85	4,029.55	-685.70	1,286.37	1,141.06	145.31	8.853		
12,000.00	7,390.00	12,040.07	7,610.00	77.00	74.32	99.84	4,129.53	-683.95	1,287.23	1,139.07	148.16	8.688		
12,100.00	7,390.00	12,140.07	7,610.00	78.38	75.77	99.83	4,229.51	-682.21	1,288.09	1,137.07	151.02	8.529		
12,200.00	7,390.00	12,240.07	7,610.00	79.76	77.23	99.83	4,329.49	-680.46	1,288.94	1,135.06	153.89	8.376		
12,300.00	7,390.00	12,340.06	7,610.00	81.15	78.69	99.82	4,429.48	-678.72	1,289.80	1,133.04	156.76	8.228		
12,400.00	7,390.00	12,440.06	7,610.00	82.55	80.15	99.81	4,529.46	-676.97	1,290.66	1,131.01	159.65	8.084		
12,500.00	7,390.00	12,540.06	7,610.00	83.96	81.62	99.81	4,629.44	-675.23	1,291.52	1,128.98	162.55	7.945		
12,600.00	7,390.00	12,640.05	7,610.00	85.37	83.09	99.80	4,729.42	-673.48	1,292.38	1,126.93	165.45	7.811		
12,700.00	7,390.00	12,740.05	7,610.00	86.79	84.56	99.79	4,829.40	-671.74	1,293.24	1,124.88	168.36	7.681		
12,800.00	7,390.00	12,840.04	7,610.00	88.21	86.04	99.79	4,929.38	-669.99	1,294.10	1,122.82	171.28	7.555		
12,900.00	7,390.00	12,940.04	7,610.00	89.64	87.52	99.78	5,029.36	-668.25	1,294.96	1,120.76	174.21	7.433		
13,000.00	7,390.00	13,040.04	7,610.00	91.08	89.01	99.78	5,129.34	-666.50	1,295.82	1,118.69	177.14	7.315		
13,100.00	7,390.00	13,140.03	7,610.00	92.52	90.49	99.77	5,229.32	-664.76	1,296.68	1,116.61	180.08	7.201		
13,200.00	7,390.00	13,240.03	7,610.00	93.96	91.98	99.76	5,329.30	-663.01	1,297.54	1,114.52	183.02	7.090		
13,300.00	7,390.00	13,340.02	7,610.00	95.41	93.48	99.76	5,429.28	-661.27	1,298.40	1,112.43	185.97	6.982		
13,400.00	7,390.00	13,440.02	7,610.00	96.86	94.97	99.75	5,529.27	-659.52	1,299.26	1,110.34	188.93	6.877		
13,500.00	7,390.00	13,540.02	7,610.00	98.31	96.47	99.74	5,629.25	-657.78	1,300.12	1,108.24	191.89	6.776		
13,600.00	7,390.00	13,640.01	7,610.00	99.77	97.97	99.74	5,729.23	-656.03	1,300.98	1,106.13	194.85	6.677		
13,700.00	7,390.00	13,740.01	7,610.00	101.24	99.47	99.73	5,829.21	-654.29	1,301.84	1,104.02	197.82	6.581		
13,800.00	7,390.00	13,840.01	7,610.00	102.70	100.98	99.72	5,929.19	-652.54	1,302.70	1,101.91	200.79	6.488		
13,900.00	7,390.00	13,940.00	7,610.00	104.17	102.48	99.72	6,029.17	-650.80	1,303.56	1,099.79	203.77	6.397		
13,953.41	7,390.00	14,000.50	7,610.00	104.96	103.39	99.71	6,089.66	-649.78	1,304.00	1,098.38	205.62	6.342		
14,000.00	7,390.00	14,090.10	7,610.00	105.65	104.76	99.71	6,179.26	-650.21	1,304.02	1,095.55	208.47	6.255		
14,064.18	7,390.00	14,213.51	7,610.00	106.63	106.68	99.72	6,302.53	-655.71	1,303.63	1,091.52	212.11	6.146		

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design												S26-T2N-R68W - SULLIVAN 4F-26H-P268 - OH - PLAN #2		Offset Site Error:		0.00 usft	
Survey Program:												0-MWD+HDGM		Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor					
14,100.00	7,390.00	14,282.33	7,610.00	107.18	107.76	99.73	6,371.13	-661.24	1,302.82	1,088.83	213.99	6.088					
14,200.00	7,390.00	14,473.52	7,610.00	108.73	110.83	99.83	6,560.69	-685.83	1,295.78	1,077.17	218.60	5.928					
14,300.00	7,390.00	14,661.83	7,610.00	110.28	113.92	100.04	6,745.21	-723.21	1,281.80	1,059.53	222.26	5.767					
14,400.00	7,390.00	14,830.95	7,610.00	111.83	116.74	100.32	6,908.35	-767.71	1,261.18	1,036.08	225.10	5.603					
14,500.00	7,390.00	14,859.12	7,610.00	113.38	117.21	100.38	6,935.32	-775.81	1,240.25	1,011.72	228.53	5.427					
14,600.00	7,390.00	14,859.12	7,610.00	114.94	117.21	100.38	6,935.32	-775.81	1,226.81	995.77	231.04	5.310					
14,700.00	7,390.00	14,859.12	7,610.00	116.49	117.21	100.38	6,935.32	-775.81	1,221.44	989.25	232.18	5.261					
14,715.76	7,390.00	14,859.12	7,610.00	116.74	117.21	100.38	6,935.32	-775.81	1,221.33	989.10	232.24	5.259 SF					
14,779.56	7,390.00	14,859.12	7,610.00	117.73	117.21	100.38	6,935.32	-775.81	1,223.00	990.91	232.09	5.270					

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
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	CC, ES	
400.00	399.98	399.98	399.98	1.20	1.21	-166.86	-0.07	50.07	51.77	49.35	2.42	21.410		
500.00	499.84	499.84	499.84	1.56	1.57	-168.04	-0.07	50.07	56.88	53.75	3.13	18.188		
600.00	599.45	599.45	599.45	1.92	1.93	-169.59	-0.07	50.07	65.43	61.59	3.84	17.028		
700.00	698.70	698.70	698.70	2.29	2.28	-171.18	-0.07	50.07	77.45	72.89	4.56	16.981		
800.00	797.47	797.47	797.47	2.69	2.64	-172.62	-0.07	50.07	92.94	87.66	5.28	17.598		
900.00	895.62	898.73	898.71	3.11	2.99	-173.35	-1.23	48.83	110.56	104.55	6.00	18.414		
1,000.00	993.06	1,000.49	1,000.32	3.57	3.33	-173.10	-4.85	44.94	128.77	122.04	6.73	19.129		
1,100.00	1,089.64	1,102.64	1,102.08	4.06	3.68	-172.22	-10.95	38.38	147.58	140.10	7.48	19.735		
1,155.17	1,142.53	1,159.15	1,158.21	4.35	3.88	-171.55	-15.39	33.61	158.23	150.33	7.90	20.027		
1,200.00	1,185.37	1,205.16	1,203.81	4.59	4.04	-170.93	-19.56	29.13	166.69	158.44	8.24	20.222		
1,300.00	1,280.95	1,303.39	1,301.06	5.14	4.40	-169.67	-28.97	19.02	185.03	176.05	8.98	20.599		
1,400.00	1,376.53	1,401.61	1,398.31	5.71	4.77	-168.64	-38.37	8.92	203.45	193.71	9.74	20.895		
1,500.00	1,472.11	1,499.84	1,495.57	6.28	5.15	-167.78	-47.78	-1.19	221.92	211.42	10.50	21.132		
1,600.00	1,567.68	1,598.07	1,592.82	6.86	5.53	-167.05	-57.19	-11.30	240.43	229.16	11.28	21.322		
1,700.00	1,663.26	1,696.30	1,690.07	7.45	5.91	-166.42	-66.59	-21.41	258.98	246.92	12.06	21.477		
1,800.00	1,758.84	1,794.53	1,787.33	8.03	6.30	-165.88	-76.00	-31.52	277.55	264.70	12.85	21.604		
1,900.00	1,854.42	1,892.76	1,884.58	8.63	6.69	-165.40	-85.41	-41.63	296.14	282.50	13.64	21.710		
2,000.00	1,949.99	1,990.99	1,981.84	9.22	7.08	-164.99	-94.82	-51.74	314.75	300.31	14.44	21.798		
2,100.00	2,045.57	2,089.22	2,079.09	9.82	7.48	-164.61	-104.22	-61.85	333.37	318.13	15.24	21.872		
2,200.00	2,141.15	2,187.45	2,176.34	10.41	7.87	-164.28	-113.63	-71.96	352.00	335.96	16.05	21.935		
2,300.00	2,236.73	2,285.68	2,273.60	11.01	8.27	-163.98	-123.04	-82.07	370.65	353.79	16.86	21.989		
2,400.00	2,332.30	2,383.90	2,370.85	11.61	8.67	-163.71	-132.45	-92.18	389.30	371.63	17.67	22.035		
2,500.00	2,427.88	2,482.13	2,468.10	12.21	9.07	-163.47	-141.85	-102.29	407.96	389.48	18.48	22.075		
2,600.00	2,523.46	2,580.36	2,565.36	12.82	9.47	-163.24	-151.26	-112.40	426.63	407.34	19.30	22.109		
2,700.00	2,619.04	2,678.59	2,662.61	13.42	9.87	-163.04	-160.67	-122.51	445.31	425.19	20.11	22.139		
2,800.00	2,714.61	2,776.82	2,759.86	14.02	10.28	-162.85	-170.07	-132.62	463.98	443.05	20.93	22.166		
2,900.00	2,810.19	2,875.05	2,857.12	14.63	10.68	-162.68	-179.48	-142.72	482.67	460.92	21.75	22.189		
3,000.00	2,905.77	2,973.28	2,954.37	15.23	11.08	-162.51	-188.89	-152.83	501.36	478.78	22.57	22.209		
3,100.00	3,001.35	3,071.51	3,051.62	15.84	11.49	-162.36	-198.30	-162.94	520.05	496.65	23.40	22.227		
3,200.00	3,096.92	3,169.74	3,148.88	16.44	11.89	-162.23	-207.70	-173.05	538.74	514.52	24.22	22.244		
3,300.00	3,192.50	3,267.97	3,246.13	17.05	12.30	-162.10	-217.11	-183.16	557.44	532.39	25.04	22.258		
3,400.00	3,288.08	3,366.19	3,343.38	17.65	12.70	-161.97	-226.52	-193.27	576.14	550.27	25.87	22.271		
3,500.00	3,383.66	3,464.42	3,440.64	18.26	13.11	-161.86	-235.93	-203.38	594.84	568.14	26.70	22.282		
3,600.00	3,479.23	3,562.65	3,537.89	18.87	13.51	-161.75	-245.33	-213.49	613.54	586.02	27.52	22.293		
3,700.00	3,574.81	3,660.88	3,635.14	19.47	13.92	-161.65	-254.74	-223.60	632.25	603.90	28.35	22.302		
3,800.00	3,670.39	3,759.11	3,732.40	20.08	14.33	-161.56	-264.15	-233.71	650.96	621.78	29.18	22.310		
3,900.00	3,765.97	3,857.34	3,829.65	20.69	14.73	-161.47	-273.55	-243.82	669.66	639.66	30.01	22.318		
4,000.00	3,861.54	3,955.57	3,926.91	21.30	15.14	-161.38	-282.96	-253.93	688.38	657.54	30.83	22.325		
4,100.00	3,957.12	4,053.80	4,024.16	21.90	15.55	-161.30	-292.37	-264.04	707.09	675.42	31.66	22.331		
4,200.00	4,052.70	4,152.03	4,121.41	22.51	15.95	-161.23	-301.78	-274.15	725.80	693.31	32.49	22.337		
4,300.00	4,148.28	4,250.26	4,218.67	23.12	16.36	-161.16	-311.18	-284.25	744.52	711.19	33.32	22.342		
4,400.00	4,243.85	4,348.48	4,315.92	23.73	16.77	-161.09	-320.59	-294.36	763.23	729.08	34.15	22.347		
4,500.00	4,339.43	4,446.71	4,413.17	24.34	17.18	-161.02	-330.00	-304.47	781.95	746.96	34.98	22.351		
4,600.00	4,435.01	4,544.94	4,510.43	24.95	17.58	-160.96	-339.40	-314.58	800.67	764.85	35.82	22.355		
4,700.00	4,530.59	4,643.17	4,607.68	25.55	17.99	-160.90	-348.81	-324.69	819.38	782.74	36.65	22.358		
4,800.00	4,626.16	4,741.40	4,704.93	26.16	18.40	-160.84	-358.22	-334.80	838.10	800.62	37.48	22.362		
4,900.00	4,721.74	4,839.63	4,802.19	26.77	18.81	-160.79	-367.63	-344.91	856.82	818.51	38.31	22.365		
5,000.00	4,817.32	4,937.86	4,899.44	27.38	19.22	-160.74	-377.03	-355.02	875.54	836.40	39.14	22.368		

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4G-26H-P268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference				Offset			Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.00	4,912.90	5,036.09	4,996.69	27.99	19.63	-160.69	-386.44	-365.13	894.27	854.29	39.98	22.370		
5,200.00	5,008.47	5,134.32	5,093.95	28.60	20.03	-160.64	-395.85	-375.24	912.99	872.18	40.81	22.372		
5,300.00	5,104.05	5,232.55	5,191.20	29.21	20.44	-160.59	-405.26	-385.35	931.71	890.07	41.64	22.375		
5,400.00	5,199.63	5,330.77	5,288.45	29.82	20.85	-160.55	-414.66	-395.46	950.43	907.96	42.47	22.377		
5,500.00	5,295.21	5,429.00	5,385.71	30.43	21.26	-160.51	-424.07	-405.57	969.16	925.85	43.31	22.378		
5,600.00	5,390.78	5,527.23	5,482.96	31.03	21.67	-160.47	-433.48	-415.68	987.88	943.74	44.14	22.380		
5,700.00	5,486.36	5,625.46	5,580.21	31.64	22.08	-160.43	-442.88	-425.79	1,006.61	961.63	44.97	22.382		
5,800.00	5,581.94	5,723.69	5,677.47	32.25	22.49	-160.39	-452.29	-435.89	1,025.33	979.52	45.81	22.383		
5,900.00	5,677.52	5,821.92	5,774.72	32.86	22.90	-160.35	-461.70	-446.00	1,044.06	997.41	46.64	22.384		
6,000.00	5,773.09	5,920.15	5,871.98	33.47	23.31	-160.32	-471.11	-456.11	1,062.78	1,015.31	47.48	22.385		
6,100.00	5,868.67	6,018.38	5,969.23	34.08	23.72	-160.28	-480.51	-466.22	1,081.51	1,033.20	48.31	22.387		
6,200.00	5,964.25	6,116.61	6,066.48	34.69	24.12	-160.25	-489.92	-476.33	1,100.23	1,051.09	49.15	22.387		
6,300.00	6,059.83	6,214.84	6,163.74	35.30	24.53	-160.22	-499.33	-486.44	1,118.96	1,068.98	49.98	22.388		
6,400.00	6,155.40	6,313.06	6,260.99	35.91	24.94	-160.19	-508.74	-496.55	1,137.69	1,086.87	50.81	22.389		
6,500.00	6,250.98	6,411.29	6,358.24	36.52	25.35	-160.16	-518.14	-506.66	1,156.42	1,104.77	51.65	22.390		
6,600.00	6,346.56	6,509.52	6,455.50	37.13	25.76	-160.13	-527.55	-516.77	1,175.14	1,122.66	52.48	22.391		
6,700.00	6,442.14	6,607.75	6,552.75	37.74	26.17	-160.10	-536.96	-526.88	1,193.87	1,140.55	53.32	22.391		
6,800.00	6,537.71	6,715.43	6,659.48	38.35	26.61	-160.16	-545.53	-537.98	1,212.44	1,158.25	54.20	22.371		
6,900.00	6,633.29	6,834.40	6,777.48	38.96	27.01	-160.97	-538.77	-550.35	1,229.58	1,174.67	54.91	22.392		
7,008.07	6,736.58	6,954.11	6,893.43	39.62	27.31	-162.67	-512.25	-562.60	1,246.89	1,191.50	55.39	22.512		
7,050.00	6,776.72	6,997.60	6,934.23	39.87	27.41	-176.42	-497.86	-566.94	1,253.63	1,198.12	55.52	22.581		
7,100.00	6,824.59	7,048.31	6,980.60	40.15	27.50	167.18	-477.96	-571.89	1,261.89	1,206.24	55.65	22.676		
7,150.00	6,872.19	7,097.90	7,024.48	40.42	27.58	152.52	-455.36	-576.60	1,270.30	1,214.54	55.76	22.780		
7,200.00	6,919.22	7,146.50	7,065.87	40.67	27.65	140.44	-430.30	-581.06	1,278.80	1,222.94	55.86	22.892		
7,250.00	6,965.38	7,194.21	7,104.76	40.90	27.71	130.84	-403.01	-585.27	1,287.31	1,231.35	55.95	23.007		
7,300.00	7,010.41	7,241.12	7,141.16	41.10	27.75	123.25	-373.69	-589.23	1,295.74	1,239.70	56.04	23.123		
7,350.00	7,054.01	7,287.33	7,175.07	41.29	27.78	117.17	-342.54	-592.94	1,304.02	1,247.90	56.12	23.238		
7,400.00	7,095.93	7,332.91	7,206.49	41.46	27.81	112.22	-309.71	-596.40	1,312.06	1,255.87	56.20	23.348		
7,450.00	7,135.90	7,377.92	7,235.42	41.60	27.83	108.13	-275.39	-599.61	1,319.81	1,263.53	56.28	23.451		
7,500.00	7,173.67	7,422.44	7,261.87	41.73	27.84	104.72	-239.71	-602.56	1,327.18	1,270.81	56.37	23.546		
7,550.00	7,209.02	7,466.50	7,285.82	41.84	27.84	101.83	-202.83	-605.26	1,334.11	1,277.65	56.46	23.629		
7,600.00	7,241.72	7,510.17	7,307.29	41.94	27.85	99.38	-164.89	-607.71	1,340.54	1,283.98	56.57	23.699		
7,650.00	7,271.57	7,553.49	7,326.28	42.02	27.84	97.29	-126.03	-609.91	1,346.41	1,289.73	56.68	23.754		
7,700.00	7,298.40	7,596.49	7,342.78	42.08	27.84	95.53	-86.38	-611.84	1,351.67	1,294.86	56.81	23.792		
7,750.00	7,322.02	7,639.21	7,356.80	42.13	27.84	94.04	-46.06	-613.53	1,356.28	1,299.32	56.96	23.811		
7,800.00	7,342.31	7,681.69	7,368.35	42.17	27.84	92.82	-5.21	-614.95	1,360.19	1,303.06	57.12	23.811		
7,850.00	7,359.13	7,723.95	7,377.43	42.21	27.85	91.82	36.04	-616.12	1,363.36	1,306.06	57.31	23.790		
7,900.00	7,372.37	7,766.03	7,384.04	42.23	27.88	91.05	77.58	-617.04	1,365.78	1,308.27	57.51	23.748		
7,950.00	7,381.97	7,807.95	7,388.21	42.25	27.93	90.49	119.28	-617.70	1,367.41	1,309.68	57.73	23.685		
8,000.00	7,387.85	7,850.00	7,389.95	42.26	28.02	90.13	161.29	-618.11	1,368.24	1,310.26	57.98	23.599		
8,053.41	7,390.00	7,901.32	7,390.00	42.28	28.17	90.00	212.60	-618.39	1,368.12	1,309.81	58.30	23.466		
8,100.00	7,390.00	7,947.91	7,390.00	42.29	28.37	90.00	259.19	-618.64	1,367.46	1,308.81	58.65	23.315		
8,200.00	7,390.00	8,047.90	7,390.00	42.35	28.87	90.00	359.18	-619.18	1,366.05	1,306.55	59.50	22.961		
8,300.00	7,390.00	8,147.89	7,390.00	42.44	29.46	90.00	459.17	-619.72	1,364.64	1,304.14	60.49	22.559		
8,400.00	7,390.00	8,247.88	7,390.00	42.59	30.13	90.00	559.16	-620.26	1,363.22	1,301.59	61.64	22.117		
8,500.00	7,390.00	8,347.87	7,390.00	42.77	30.87	90.00	659.15	-620.80	1,361.81	1,298.89	62.92	21.644		
8,600.00	7,390.00	8,447.86	7,390.00	43.01	31.67	90.00	759.13	-621.34	1,360.40	1,296.07	64.33	21.147		
8,700.00	7,390.00	8,547.85	7,390.00	43.30	32.52	90.00	859.12	-621.88	1,358.99	1,293.12	65.86	20.634		
8,800.00	7,390.00	8,647.84	7,390.00	43.65	33.43	90.00	959.11	-622.41	1,357.58	1,290.07	67.51	20.109		
8,900.00	7,390.00	8,747.83	7,390.00	44.05	34.38	90.00	1,059.10	-622.95	1,356.16	1,286.90	69.26	19.580		
9,000.00	7,390.00	8,847.82	7,390.00	44.52	35.38	90.00	1,159.09	-623.49	1,354.75	1,283.64	71.11	19.051		
9,100.00	7,390.00	8,947.81	7,390.00	45.04	36.41	90.00	1,259.08	-624.03	1,353.34	1,280.29	73.05	18.526		

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 4B-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 4B-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 #4	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
9,200.00	7,390.00	9,047.80	7,390.00	45.63	37.49	90.00	1,359.07	-624.57	1,351.93	1,276.86	75.07	18.008	
9,300.00	7,390.00	9,147.79	7,390.00	46.28	38.59	90.00	1,459.05	-625.11	1,350.52	1,273.35	77.17	17.500	
9,400.00	7,390.00	9,247.78	7,390.00	46.98	39.73	90.00	1,559.04	-625.65	1,349.10	1,269.76	79.34	17.004	
9,500.00	7,390.00	9,347.77	7,390.00	47.74	40.90	90.00	1,659.03	-626.19	1,347.69	1,266.12	81.57	16.521	
9,600.00	7,390.00	9,447.76	7,390.00	48.56	42.10	90.00	1,759.02	-626.73	1,346.28	1,262.41	83.87	16.052	
9,700.00	7,390.00	9,547.75	7,390.00	49.42	43.32	90.00	1,859.01	-627.27	1,344.87	1,258.65	86.22	15.599	
9,800.00	7,390.00	9,647.74	7,390.00	50.33	44.56	90.00	1,959.00	-627.81	1,343.46	1,254.84	88.62	15.160	
9,900.00	7,390.00	9,747.73	7,390.00	51.29	45.83	90.00	2,058.99	-628.35	1,342.04	1,250.98	91.06	14.737	
10,000.00	7,390.00	9,847.72	7,390.00	52.28	47.11	90.00	2,158.97	-628.89	1,340.63	1,247.08	93.55	14.330	
10,100.00	7,390.00	9,947.71	7,390.00	53.31	48.41	90.00	2,258.96	-629.43	1,339.22	1,243.14	96.08	13.938	
10,200.00	7,390.00	10,047.70	7,390.00	54.37	49.73	90.00	2,358.95	-629.97	1,337.81	1,239.16	98.65	13.561	
10,300.00	7,390.00	10,147.69	7,390.00	55.46	51.06	90.00	2,458.94	-630.50	1,336.40	1,235.15	101.25	13.199	
10,400.00	7,390.00	10,247.68	7,390.00	56.58	52.41	90.00	2,558.93	-631.04	1,334.98	1,231.11	103.88	12.851	
10,500.00	7,390.00	10,347.67	7,390.00	57.73	53.76	90.00	2,658.92	-631.58	1,333.57	1,227.03	106.54	12.517	
10,600.00	7,390.00	10,447.66	7,390.00	58.90	55.14	90.00	2,758.91	-632.12	1,332.16	1,222.94	109.22	12.196	
10,700.00	7,390.00	10,547.65	7,390.00	60.09	56.52	90.00	2,858.89	-632.66	1,330.75	1,218.81	111.94	11.888	
10,800.00	7,390.00	10,647.64	7,390.00	61.30	57.91	90.00	2,958.88	-633.20	1,329.34	1,214.67	114.67	11.593	
10,900.00	7,390.00	10,747.63	7,390.00	62.54	59.31	90.00	3,058.87	-633.74	1,327.92	1,210.50	117.43	11.308	
11,000.00	7,390.00	10,847.62	7,390.00	63.78	60.72	90.00	3,158.86	-634.28	1,326.51	1,206.31	120.20	11.036	
11,100.00	7,390.00	10,947.61	7,390.00	65.05	62.14	90.00	3,258.85	-634.82	1,325.10	1,202.10	123.00	10.773	
11,200.00	7,390.00	11,047.60	7,390.00	66.33	63.57	90.00	3,358.84	-635.36	1,323.69	1,197.88	125.81	10.521	
11,300.00	7,390.00	11,147.59	7,390.00	67.62	65.00	90.00	3,458.83	-635.90	1,322.28	1,193.64	128.64	10.279	
11,400.00	7,390.00	11,247.58	7,390.00	68.93	66.45	90.00	3,558.81	-636.44	1,320.86	1,189.38	131.49	10.046	
11,500.00	7,390.00	11,347.57	7,390.00	70.25	67.89	90.00	3,658.80	-636.98	1,319.45	1,185.11	134.34	9.821	
11,600.00	7,390.00	11,447.56	7,390.00	71.58	69.35	90.00	3,758.79	-637.52	1,318.04	1,180.83	137.22	9.606	
11,700.00	7,390.00	11,547.55	7,390.00	72.92	70.81	90.00	3,858.78	-638.06	1,316.63	1,176.53	140.10	9.398	
11,800.00	7,390.00	11,647.54	7,390.00	74.27	72.27	90.00	3,958.77	-638.59	1,315.22	1,172.22	143.00	9.198	
11,900.00	7,390.00	11,747.53	7,390.00	75.63	73.74	90.00	4,058.76	-639.13	1,313.80	1,167.90	145.90	9.005	
12,000.00	7,390.00	11,847.52	7,390.00	77.00	75.22	90.00	4,158.75	-639.67	1,312.39	1,163.57	148.82	8.819	
12,100.00	7,390.00	11,947.51	7,390.00	78.38	76.70	90.00	4,258.73	-640.21	1,310.98	1,159.23	151.75	8.639	
12,200.00	7,390.00	12,047.50	7,390.00	79.76	78.18	90.00	4,358.72	-640.75	1,309.57	1,154.88	154.69	8.466	
12,300.00	7,390.00	12,147.49	7,390.00	81.15	79.67	90.00	4,458.71	-641.29	1,308.16	1,150.52	157.63	8.299	
12,400.00	7,390.00	12,247.48	7,390.00	82.55	81.16	90.00	4,558.70	-641.83	1,306.74	1,146.16	160.59	8.137	
12,500.00	7,390.00	12,347.47	7,390.00	83.96	82.65	90.00	4,658.69	-642.37	1,305.33	1,141.78	163.55	7.981	
12,600.00	7,390.00	12,447.46	7,390.00	85.37	84.15	90.00	4,758.68	-642.91	1,303.92	1,137.40	166.52	7.830	
12,700.00	7,390.00	12,547.45	7,390.00	86.79	85.65	90.00	4,858.67	-643.45	1,302.51	1,133.01	169.49	7.685	
12,800.00	7,390.00	12,647.44	7,390.00	88.21	87.16	90.00	4,958.65	-643.99	1,301.10	1,128.62	172.48	7.544	
12,900.00	7,390.00	12,747.43	7,390.00	89.64	88.66	90.00	5,058.64	-644.53	1,299.68	1,124.22	175.47	7.407	
13,000.00	7,390.00	12,847.42	7,390.00	91.08	90.17	90.00	5,158.63	-645.07	1,298.27	1,119.81	178.46	7.275	
13,100.00	7,390.00	12,947.41	7,390.00	92.52	91.69	90.00	5,258.62	-645.61	1,296.86	1,115.40	181.46	7.147	
13,200.00	7,390.00	13,047.40	7,390.00	93.96	93.20	90.00	5,358.61	-646.14	1,295.45	1,110.98	184.47	7.022	
13,300.00	7,390.00	13,147.39	7,390.00	95.41	94.72	90.00	5,458.60	-646.68	1,294.04	1,106.55	187.48	6.902	
13,400.00	7,390.00	13,247.38	7,390.00	96.86	96.24	90.00	5,558.59	-647.22	1,292.62	1,102.12	190.50	6.785	
13,500.00	7,390.00	13,347.37	7,390.00	98.31	97.76	90.00	5,658.57	-647.76	1,291.21	1,097.69	193.52	6.672	
13,600.00	7,390.00	13,447.36	7,390.00	99.77	99.28	90.00	5,758.56	-648.30	1,289.80	1,093.25	196.55	6.562	
13,700.00	7,390.00	13,547.35	7,390.00	101.24	100.81	90.00	5,858.55	-648.84	1,288.39	1,088.81	199.58	6.456	
13,800.00	7,390.00	13,647.34	7,390.00	102.70	102.34	90.00	5,958.54	-649.38	1,286.98	1,084.36	202.61	6.352	
13,900.00	7,390.00	13,747.33	7,390.00	104.17	103.86	90.00	6,058.53	-649.92	1,285.56	1,079.91	205.65	6.251	
13,953.41	7,390.00	13,833.34	7,390.00	104.96	105.19	90.00	6,144.52	-651.61	1,284.00	1,075.63	208.37	6.162	
14,000.00	7,390.00	13,879.92	7,390.00	105.65	105.91	90.00	6,191.08	-653.04	1,282.81	1,073.01	209.80	6.115	
14,019.45	7,390.00	13,899.37	7,390.00	105.95	106.22	90.00	6,210.52	-653.64	1,282.70	1,072.30	210.40	6.096	
14,064.18	7,390.00	13,944.10	7,390.00	106.63	106.91	90.00	6,255.23	-655.02	1,283.29	1,071.51	211.78	6.059	

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 4B-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 4B-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 #4	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		Total		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis		
14,100.00	7,390.00	13,979.90	7,390.00	107.18	107.47	90.00	6,291.01	-656.12	1,284.25	1,071.35	212.90	6.032	
14,200.00	7,390.00	14,079.87	7,390.00	108.73	109.02	90.00	6,390.93	-659.20	1,286.93	1,070.92	216.01	5.958	
14,300.00	7,390.00	14,179.83	7,390.00	110.28	110.58	90.00	6,490.85	-662.27	1,289.60	1,070.47	219.13	5.885	
14,400.00	7,390.00	14,279.79	7,390.00	111.83	112.14	90.00	6,590.76	-665.35	1,292.28	1,070.03	222.25	5.815	
14,500.00	7,390.00	14,379.76	7,390.00	113.38	113.70	90.00	6,690.68	-668.43	1,294.96	1,069.58	225.38	5.746	
14,600.00	7,390.00	14,479.72	7,390.00	114.94	115.26	90.00	6,790.60	-671.51	1,297.63	1,069.13	228.50	5.679	
14,700.00	7,390.00	14,579.69	7,390.00	116.49	116.82	90.00	6,890.51	-674.58	1,300.31	1,068.67	231.63	5.614	
14,779.56	7,390.00	14,625.12	7,390.00	117.73	117.53	90.00	6,935.93	-675.98	1,302.88	1,069.92	232.96	5.593 SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	1.00	1.00	0.00	0.00	90.03	-0.04	59.86	59.86					
100.00	100.00	101.00	101.00	0.14	0.14	90.03	-0.04	59.86	59.86	59.58	0.28	214.096		
116.33	116.33	117.33	117.33	0.20	0.20	90.03	-0.04	59.86	59.86	59.47	0.40	150.906	CC	
200.00	200.00	201.00	201.00	0.50	0.50	90.03	-0.04	59.86	59.86	58.87	1.00	60.079		
200.01	200.01	201.01	201.01	0.50	0.50	90.03	-0.04	59.86	59.86	58.87	1.00	60.077		
300.00	300.00	300.96	300.94	0.85	0.84	91.74	-1.81	59.86	59.89	58.19	1.70	35.265	ES	
400.00	399.98	400.69	400.53	1.20	1.19	-160.31	-7.06	59.86	61.92	59.53	2.39	25.859		
500.00	499.84	502.15	501.65	1.56	1.56	-154.80	-15.07	58.30	66.46	63.35	3.11	21.359		
600.00	599.45	603.51	602.43	1.92	1.94	-149.33	-24.88	53.65	72.13	68.28	3.86	18.711		
700.00	698.70	704.69	702.63	2.29	2.33	-144.10	-36.48	45.95	79.03	74.40	4.62	17.102		
800.00	797.47	804.12	800.90	2.69	2.73	-140.34	-48.69	37.00	88.22	82.82	5.40	16.346		
900.00	895.62	903.35	898.98	3.11	3.13	-138.58	-60.87	28.07	100.28	94.08	6.20	16.180	SF	
1,000.00	993.06	1,002.26	996.73	3.57	3.54	-138.32	-73.01	19.17	114.97	107.95	7.02	16.381		
1,100.00	1,089.64	1,100.72	1,094.06	4.06	3.95	-139.06	-85.10	10.31	132.26	124.40	7.86	16.834		
1,155.17	1,142.53	1,154.82	1,147.52	4.35	4.18	-139.74	-91.74	5.44	142.92	134.60	8.33	17.166		
1,200.00	1,185.37	1,198.70	1,190.89	4.59	4.36	-140.44	-97.13	1.49	151.94	143.23	8.71	17.450		
1,300.00	1,280.95	1,296.58	1,287.63	5.14	4.77	-141.72	-109.15	-7.31	172.11	162.55	9.56	18.008		
1,400.00	1,376.53	1,394.46	1,384.37	5.71	5.19	-142.73	-121.16	-16.12	192.34	181.93	10.41	18.473		
1,500.00	1,472.11	1,492.34	1,481.10	6.28	5.60	-143.56	-133.18	-24.93	212.63	201.36	11.27	18.866		
1,600.00	1,567.68	1,590.22	1,577.84	6.86	6.01	-144.23	-145.19	-33.74	232.94	220.81	12.13	19.203		
1,700.00	1,663.26	1,688.10	1,674.58	7.45	6.43	-144.80	-157.21	-42.55	253.29	240.29	12.99	19.493		
1,800.00	1,758.84	1,785.98	1,771.32	8.03	6.84	-145.29	-169.23	-51.36	273.65	259.79	13.86	19.747		
1,900.00	1,854.42	1,883.86	1,868.06	8.63	7.26	-145.71	-181.24	-60.17	294.03	279.31	14.72	19.971		
2,000.00	1,949.99	1,981.74	1,964.80	9.22	7.67	-146.07	-193.26	-68.98	314.43	298.84	15.59	20.169		
2,100.00	2,045.57	2,079.62	2,061.54	9.82	8.09	-146.39	-205.28	-77.78	334.83	318.37	16.46	20.346		
2,200.00	2,141.15	2,177.50	2,158.28	10.41	8.50	-146.67	-217.29	-86.59	355.24	337.92	17.33	20.504		
2,300.00	2,236.73	2,275.38	2,255.02	11.01	8.92	-146.92	-229.31	-95.40	375.66	357.47	18.19	20.648		
2,400.00	2,332.30	2,373.26	2,351.76	11.61	9.34	-147.15	-241.33	-104.21	396.09	377.03	19.06	20.778		
2,500.00	2,427.88	2,471.14	2,448.50	12.21	9.75	-147.35	-253.34	-113.02	416.52	396.59	19.93	20.896		
2,600.00	2,523.46	2,569.02	2,545.24	12.82	10.17	-147.54	-265.36	-121.83	436.96	416.15	20.80	21.004		
2,700.00	2,619.04	2,666.90	2,641.98	13.42	10.59	-147.71	-277.38	-130.64	457.40	435.72	21.67	21.104		
2,800.00	2,714.61	2,764.78	2,738.72	14.02	11.00	-147.86	-289.39	-139.44	477.84	455.30	22.54	21.195		
2,900.00	2,810.19	2,862.66	2,835.46	14.63	11.42	-148.00	-301.41	-148.25	498.29	474.87	23.42	21.280		
3,000.00	2,905.77	2,960.54	2,932.20	15.23	11.84	-148.13	-313.43	-157.06	518.74	494.45	24.29	21.359		
3,100.00	3,001.35	3,058.42	3,028.94	15.84	12.25	-148.25	-325.44	-165.87	539.19	514.03	25.16	21.432		
3,200.00	3,096.92	3,156.30	3,125.68	16.44	12.67	-148.36	-337.46	-174.68	559.64	533.61	26.03	21.500		
3,300.00	3,192.50	3,254.18	3,222.42	17.05	13.09	-148.47	-349.48	-183.49	580.10	553.20	26.90	21.563		
3,400.00	3,288.08	3,352.06	3,319.16	17.65	13.50	-148.56	-361.49	-192.30	600.55	572.78	27.77	21.622		
3,500.00	3,383.66	3,449.94	3,415.90	18.26	13.92	-148.65	-373.51	-201.11	621.01	592.37	28.65	21.678		
3,600.00	3,479.23	3,547.82	3,512.64	18.87	14.34	-148.74	-385.52	-209.91	641.47	611.95	29.52	21.731		
3,700.00	3,574.81	3,645.70	3,609.38	19.47	14.76	-148.82	-397.54	-218.72	661.94	631.54	30.39	21.780		
3,800.00	3,670.39	3,743.58	3,706.12	20.08	15.17	-148.89	-409.56	-227.53	682.40	651.13	31.26	21.827		
3,900.00	3,765.97	3,841.46	3,802.86	20.69	15.59	-148.96	-421.57	-236.34	702.86	670.72	32.14	21.871		
4,000.00	3,861.54	3,939.34	3,899.60	21.30	16.01	-149.03	-433.59	-245.15	723.33	690.32	33.01	21.912		
4,100.00	3,957.12	4,037.22	3,996.34	21.90	16.43	-149.09	-445.61	-253.96	743.79	709.91	33.88	21.952		
4,200.00	4,052.70	4,135.10	4,093.07	22.51	16.84	-149.15	-457.62	-262.77	764.26	729.50	34.76	21.989		
4,300.00	4,148.28	4,232.99	4,189.81	23.12	17.26	-149.20	-469.64	-271.58	784.73	749.10	35.63	22.025		
4,400.00	4,243.85	4,330.87	4,286.55	23.73	17.68	-149.26	-481.66	-280.38	805.19	768.69	36.50	22.058		
4,500.00	4,339.43	4,428.75	4,383.29	24.34	18.10	-149.31	-493.67	-289.19	825.66	788.29	37.38	22.091		
4,600.00	4,435.01	4,526.63	4,480.03	24.95	18.52	-149.36	-505.69	-298.00	846.13	807.88	38.25	22.121		
4,700.00	4,530.59	4,623.29	4,575.57	25.55	18.93	-149.40	-517.54	-306.69	866.61	827.50	39.11	22.158		
4,800.00	4,626.16	4,711.69	4,663.19	26.16	19.29	-149.55	-527.01	-313.63	887.74	847.86	39.88	22.263		

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 4B-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 4B-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 #4	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		
4,900.00	4,721.74	4,800.00	4,751.03	26.77	19.63	-149.86	-534.29	-318.97	909.92	869.33	40.59	22.415		
5,000.00	4,817.32	4,886.51	4,837.31	27.38	19.95	-150.30	-539.31	-322.64	933.19	891.94	41.25	22.624		
5,100.00	4,912.90	4,972.61	4,923.34	27.99	20.24	-150.87	-542.21	-324.77	957.60	915.74	41.85	22.879		
5,200.00	5,008.47	5,058.76	5,009.47	28.60	20.51	-151.55	-543.04	-325.38	983.19	940.78	42.41	23.184		
5,300.00	5,104.05	5,154.34	5,105.05	29.21	20.78	-152.34	-543.04	-325.38	1,009.40	966.40	43.00	23.472		
5,400.00	5,199.63	5,249.91	5,200.63	29.82	21.05	-153.09	-543.04	-325.38	1,035.78	992.17	43.60	23.754		
5,500.00	5,295.21	5,345.49	5,296.21	30.43	21.32	-153.80	-543.04	-325.38	1,062.32	1,018.11	44.21	24.029		
5,600.00	5,390.78	5,441.07	5,391.78	31.03	21.60	-154.48	-543.04	-325.38	1,089.00	1,044.18	44.82	24.297		
5,700.00	5,486.36	5,536.65	5,487.36	31.64	21.87	-155.13	-543.04	-325.38	1,115.83	1,070.39	45.43	24.559		
5,800.00	5,581.94	5,632.22	5,582.94	32.25	22.15	-155.74	-543.04	-325.38	1,142.78	1,096.72	46.05	24.815		
5,900.00	5,677.52	5,727.80	5,678.52	32.86	22.43	-156.33	-543.04	-325.38	1,169.85	1,123.17	46.67	25.064		
6,000.00	5,773.09	5,823.38	5,774.09	33.47	22.72	-156.89	-543.04	-325.38	1,197.02	1,149.72	47.30	25.306		
6,100.00	5,868.67	5,918.96	5,869.67	34.08	23.00	-157.43	-543.04	-325.38	1,224.31	1,176.37	47.93	25.542		
6,200.00	5,964.25	6,014.53	5,965.25	34.69	23.28	-157.94	-543.04	-325.38	1,251.69	1,203.12	48.57	25.773		
6,300.00	6,059.83	6,110.11	6,060.83	35.30	23.57	-158.43	-543.04	-325.38	1,279.15	1,229.95	49.20	25.997		
6,400.00	6,155.40	6,205.69	6,156.40	35.91	23.86	-158.90	-543.04	-325.38	1,306.71	1,256.86	49.85	26.215		
6,500.00	6,250.98	6,301.27	6,251.98	36.52	24.15	-159.36	-543.04	-325.38	1,334.34	1,283.85	50.49	26.427		
6,600.00	6,346.56	6,396.84	6,347.56	37.13	24.44	-159.79	-543.04	-325.38	1,362.05	1,310.91	51.14	26.634		
6,700.00	6,442.14	6,492.42	6,443.14	37.74	24.73	-160.21	-543.04	-325.38	1,389.82	1,338.03	51.79	26.836		
6,800.00	6,537.71	6,588.00	6,538.71	38.35	25.03	-160.61	-543.04	-325.38	1,417.67	1,365.22	52.44	27.032		
6,900.00	6,633.29	6,683.58	6,634.29	38.96	25.32	-160.99	-543.04	-325.38	1,445.57	1,392.47	53.10	27.223		
7,008.07	6,736.58	6,786.87	6,737.58	39.62	25.64	-161.39	-543.04	-325.38	1,475.79	1,421.98	53.81	27.424		
7,050.00	6,776.72	6,829.55	6,780.27	39.87	25.77	-174.99	-542.85	-325.38	1,487.64	1,433.52	54.11	27.492		

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - SULLIVAN 4I-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.99	0.01	69.93	69.93				
100.00	100.00	100.00	100.00	0.14	0.14	89.99	0.01	69.93	69.93	69.66	0.28	253.359	
200.00	200.00	200.00	200.00	0.50	0.50	89.99	0.01	69.93	69.93	68.94	0.99	70.428	
300.00	300.00	300.00	300.00	0.85	0.85	89.99	0.01	69.93	69.93	68.22	1.71	40.899 CC, ES	
400.00	399.98	399.91	399.89	1.20	1.20	-165.43	-1.73	69.96	71.67	69.27	2.40	29.843	
500.00	499.84	499.53	499.37	1.56	1.54	-162.50	-6.93	70.06	77.03	73.94	3.09	24.909	
600.00	599.45	598.59	598.05	1.92	1.89	-158.45	-15.53	70.21	86.30	82.50	3.81	22.671	
700.00	698.70	697.14	695.91	2.29	2.25	-154.23	-27.16	70.42	99.73	95.19	4.54	21.953 SF	
800.00	797.47	795.57	793.58	2.69	2.63	-151.50	-39.32	70.64	116.73	111.44	5.29	22.059	
900.00	895.62	893.48	890.75	3.11	3.01	-150.13	-51.42	70.86	136.86	130.81	6.05	22.619	
1,000.00	993.06	990.77	987.28	3.57	3.39	-149.68	-63.44	71.07	159.98	153.15	6.82	23.453	
1,100.00	1,089.64	1,087.30	1,083.08	4.06	3.77	-149.81	-75.37	71.29	186.01	178.41	7.60	24.469	
1,155.17	1,142.53	1,140.21	1,135.58	4.35	3.98	-150.05	-81.91	71.41	201.63	193.59	8.04	25.080	
1,200.00	1,185.37	1,183.07	1,178.12	4.59	4.15	-150.39	-87.20	71.50	214.69	206.29	8.39	25.580	
1,300.00	1,280.95	1,278.70	1,273.01	5.14	4.53	-151.01	-99.02	71.71	243.83	234.65	9.18	26.559	
1,400.00	1,376.53	1,374.33	1,367.91	5.71	4.91	-151.51	-110.84	71.93	272.99	263.01	9.98	27.367	
1,500.00	1,472.11	1,469.96	1,462.81	6.28	5.30	-151.90	-122.65	72.14	302.17	291.39	10.77	28.044	
1,600.00	1,567.68	1,565.59	1,557.70	6.86	5.68	-152.23	-134.47	72.35	331.36	319.78	11.58	28.618	
1,700.00	1,663.26	1,661.22	1,652.60	7.45	6.06	-152.51	-146.29	72.56	360.55	348.17	12.39	29.112	
1,800.00	1,758.84	1,756.85	1,747.50	8.03	6.45	-152.74	-158.10	72.78	389.75	376.56	13.19	29.540	
1,900.00	1,854.42	1,852.48	1,842.39	8.63	6.83	-152.94	-169.92	72.99	418.96	404.96	14.01	29.914	
2,000.00	1,949.99	1,948.11	1,937.29	9.22	7.22	-153.12	-181.74	73.20	448.18	433.36	14.82	30.245	
2,100.00	2,045.57	2,043.74	2,032.19	9.82	7.60	-153.27	-193.55	73.41	477.39	461.76	15.63	30.538	
2,200.00	2,141.15	2,139.37	2,127.08	10.41	7.99	-153.41	-205.37	73.63	506.61	490.16	16.45	30.800	
2,300.00	2,236.73	2,235.00	2,221.98	11.01	8.37	-153.53	-217.19	73.84	535.83	518.57	17.26	31.036	
2,400.00	2,332.30	2,330.63	2,316.88	11.61	8.76	-153.64	-229.01	74.05	565.05	546.97	18.08	31.249	
2,500.00	2,427.88	2,426.26	2,411.77	12.21	9.15	-153.73	-240.82	74.26	594.28	575.38	18.90	31.442	
2,600.00	2,523.46	2,521.89	2,506.67	12.82	9.53	-153.82	-252.64	74.48	623.50	603.78	19.72	31.619	
2,700.00	2,619.04	2,617.52	2,601.56	13.42	9.92	-153.90	-264.46	74.69	652.73	632.19	20.54	31.780	
2,800.00	2,714.61	2,713.15	2,696.46	14.02	10.31	-153.98	-276.27	74.90	681.96	660.60	21.36	31.928	
2,900.00	2,810.19	2,808.78	2,791.36	14.63	10.69	-154.05	-288.09	75.11	711.19	689.01	22.18	32.065	
3,000.00	2,905.77	2,904.41	2,886.25	15.23	11.08	-154.11	-299.91	75.33	740.42	717.42	23.00	32.192	
3,100.00	3,001.35	3,000.04	2,981.15	15.84	11.47	-154.17	-311.72	75.54	769.65	745.83	23.82	32.309	
3,200.00	3,096.92	3,095.67	3,076.05	16.44	11.85	-154.22	-323.54	75.75	798.88	774.24	24.64	32.418	
3,300.00	3,192.50	3,191.30	3,170.94	17.05	12.24	-154.27	-335.36	75.96	828.11	802.65	25.47	32.520	
3,400.00	3,288.08	3,286.93	3,265.84	17.65	12.63	-154.31	-347.17	76.18	857.34	831.06	26.29	32.614	
3,500.00	3,383.66	3,382.56	3,360.74	18.26	13.01	-154.36	-358.99	76.39	886.58	859.47	27.11	32.703	
3,600.00	3,479.23	3,478.19	3,455.63	18.87	13.40	-154.40	-370.81	76.60	915.81	887.88	27.93	32.787	
3,700.00	3,574.81	3,573.82	3,550.53	19.47	13.79	-154.44	-382.62	76.81	945.04	916.29	28.76	32.865	
3,800.00	3,670.39	3,669.44	3,645.43	20.08	14.17	-154.47	-394.44	77.03	974.28	944.70	29.58	32.939	
3,900.00	3,765.97	3,765.07	3,740.32	20.69	14.56	-154.51	-406.26	77.24	1,003.51	973.11	30.40	33.009	
4,000.00	3,861.54	3,860.70	3,835.22	21.30	14.95	-154.54	-418.07	77.45	1,032.75	1,001.52	31.22	33.075	
4,100.00	3,957.12	3,956.33	3,930.12	21.90	15.34	-154.57	-429.89	77.66	1,061.98	1,029.93	32.05	33.137	
4,200.00	4,052.70	4,051.96	4,025.01	22.51	15.72	-154.60	-441.71	77.88	1,091.22	1,058.35	32.87	33.196	
4,300.00	4,148.28	4,147.59	4,119.91	23.12	16.11	-154.62	-453.52	78.09	1,120.45	1,086.76	33.70	33.252	
4,400.00	4,243.85	4,243.22	4,214.81	23.73	16.50	-154.65	-465.34	78.30	1,149.69	1,115.17	34.52	33.305	
4,500.00	4,339.43	4,338.85	4,309.70	24.34	16.88	-154.67	-477.16	78.51	1,178.93	1,143.58	35.34	33.356	
4,600.00	4,435.01	4,434.48	4,404.60	24.95	17.27	-154.70	-488.97	78.73	1,208.16	1,171.99	36.17	33.404	
4,700.00	4,530.59	4,530.11	4,499.50	25.55	17.66	-154.72	-500.79	78.94	1,237.40	1,200.41	36.99	33.450	
4,800.00	4,626.16	4,625.74	4,594.39	26.16	18.05	-154.74	-512.61	79.15	1,266.63	1,228.82	37.82	33.494	
4,900.00	4,721.74	4,725.77	4,693.71	26.77	18.45	-154.78	-524.57	79.37	1,295.80	1,257.13	38.67	33.508	
5,000.00	4,817.32	4,831.24	4,798.75	27.38	18.85	-154.96	-533.91	79.54	1,324.36	1,284.82	39.54	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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design													S26-T2N-R68W - SULLIVAN 4I-26H-P268 - OH - PLAN #2		Offset Site Error:		0.00 usft	
Survey Program:													0-MWD+HDGM		Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor						
5,100.00	4,912.90	4,936.73	4,904.09	27.99	19.23	-155.31	-539.38	79.63	1,352.24	1,311.88	40.36	33.508						
5,200.00	5,008.47	5,041.13	5,008.47	28.60	19.57	-155.79	-540.99	79.66	1,379.49	1,338.38	41.12	33.550						
5,300.00	5,104.05	5,136.71	5,104.05	29.21	19.85	-156.28	-540.99	79.66	1,406.56	1,364.78	41.78	33.668						
5,400.00	5,199.63	5,232.28	5,199.63	29.82	20.13	-156.75	-540.99	79.66	1,433.72	1,391.28	42.44	33.783						
5,500.00	5,295.21	5,327.86	5,295.21	30.43	20.41	-157.20	-540.99	79.66	1,460.97	1,417.87	43.10	33.895						
5,600.00	5,390.78	5,423.44	5,390.78	31.03	20.69	-157.64	-540.99	79.66	1,488.30	1,444.53	43.77	34.005						

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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	89.96	0.06	80.00	80.00					
100.00	100.00	100.00	100.00	0.14	0.14	89.96	0.06	80.00	80.00	79.73	0.28	289.842		
200.00	200.00	200.00	200.00	0.50	0.50	89.96	0.06	80.00	80.00	79.01	0.99	80.570		
300.00	300.00	300.00	300.00	0.85	0.85	89.96	0.06	80.00	80.00	78.29	1.71	46.788 CC, ES		
400.00	399.98	399.43	399.43	1.20	1.20	-166.54	-0.33	80.17	81.87	79.46	2.41	33.980		
500.00	499.84	498.03	497.96	1.56	1.54	-165.25	-3.46	81.50	88.32	85.22	3.10	28.493		
600.00	599.45	595.93	595.63	1.92	1.88	-162.90	-9.65	84.13	99.64	95.83	3.81	26.137		
700.00	698.70	692.75	691.93	2.29	2.23	-160.07	-18.79	88.02	115.98	111.43	4.54	25.535 SF		
800.00	797.47	789.25	787.58	2.69	2.59	-157.35	-30.52	93.00	137.20	131.93	5.28	26.000		
900.00	895.62	886.06	883.48	3.11	2.97	-155.65	-42.69	98.18	161.96	155.95	6.01	26.927		
1,000.00	993.06	982.07	978.60	3.57	3.34	-154.77	-54.75	103.31	189.84	183.08	6.76	28.080		
1,100.00	1,089.64	1,077.16	1,072.80	4.06	3.72	-154.42	-66.70	108.39	220.75	213.24	7.52	29.368		
1,155.17	1,142.53	1,129.20	1,124.35	4.35	3.93	-154.39	-73.24	111.17	239.09	231.15	7.94	30.110		
1,200.00	1,185.37	1,171.34	1,166.10	4.59	4.10	-154.53	-78.54	113.42	254.35	246.07	8.28	30.712		
1,300.00	1,280.95	1,265.36	1,259.24	5.14	4.48	-154.79	-90.35	118.44	288.40	279.36	9.04	31.893		
1,400.00	1,376.53	1,359.38	1,352.37	5.71	4.86	-154.99	-102.17	123.47	322.45	312.64	9.81	32.864		
1,500.00	1,472.11	1,453.40	1,445.51	6.28	5.25	-155.16	-113.98	128.49	356.51	345.92	10.59	33.674		
1,600.00	1,567.68	1,547.41	1,538.65	6.86	5.63	-155.29	-125.80	133.51	390.57	379.20	11.37	34.359		
1,700.00	1,663.26	1,641.43	1,631.78	7.45	6.01	-155.41	-137.61	138.53	424.63	412.48	12.15	34.945		
1,800.00	1,758.84	1,735.45	1,724.92	8.03	6.40	-155.50	-149.42	143.56	458.69	445.75	12.94	35.450		
1,900.00	1,854.42	1,829.47	1,818.06	8.63	6.79	-155.59	-161.24	148.58	492.76	479.03	13.73	35.891		
2,000.00	1,949.99	1,923.48	1,911.19	9.22	7.17	-155.66	-173.05	153.60	526.82	512.30	14.52	36.279		
2,100.00	2,045.57	2,017.50	2,004.33	9.82	7.56	-155.73	-184.87	158.63	560.89	545.57	15.32	36.621		
2,200.00	2,141.15	2,111.52	2,097.47	10.41	7.95	-155.78	-196.68	163.65	594.95	578.84	16.11	36.927		
2,300.00	2,236.73	2,205.53	2,190.60	11.01	8.33	-155.83	-208.50	168.67	629.02	612.11	16.91	37.201		
2,400.00	2,332.30	2,299.55	2,283.74	11.61	8.72	-155.88	-220.31	173.70	663.08	645.38	17.71	37.447		
2,500.00	2,427.88	2,393.57	2,376.88	12.21	9.11	-155.92	-232.13	178.72	697.15	678.64	18.51	37.671		
2,600.00	2,523.46	2,487.59	2,470.01	12.82	9.50	-155.96	-243.94	183.74	731.22	711.91	19.31	37.874		
2,700.00	2,619.04	2,581.60	2,563.15	13.42	9.88	-155.99	-255.75	188.77	765.29	745.18	20.11	38.059		
2,800.00	2,714.61	2,675.62	2,656.29	14.02	10.27	-156.02	-267.57	193.79	799.35	778.44	20.91	38.229		
2,900.00	2,810.19	2,769.64	2,749.42	14.63	10.66	-156.05	-279.38	198.81	833.42	811.71	21.71	38.386		
3,000.00	2,905.77	2,863.66	2,842.56	15.23	11.05	-156.08	-291.20	203.84	867.49	844.97	22.51	38.530		
3,100.00	3,001.35	2,957.67	2,935.70	15.84	11.44	-156.10	-303.01	208.86	901.56	878.24	23.32	38.664		
3,200.00	3,096.92	3,051.69	3,028.83	16.44	11.83	-156.12	-314.83	213.88	935.62	911.50	24.12	38.788		
3,300.00	3,192.50	3,145.71	3,121.97	17.05	12.21	-156.14	-326.64	218.90	969.69	944.77	24.93	38.903		
3,400.00	3,288.08	3,239.72	3,215.11	17.65	12.60	-156.16	-338.46	223.93	1,003.76	978.03	25.73	39.011		
3,500.00	3,383.66	3,333.74	3,308.24	18.26	12.99	-156.18	-350.27	228.95	1,037.83	1,011.30	26.54	39.112		
3,600.00	3,479.23	3,427.76	3,401.38	18.87	13.38	-156.20	-362.08	233.97	1,071.90	1,044.56	27.34	39.206		
3,700.00	3,574.81	3,521.78	3,494.52	19.47	13.77	-156.21	-373.90	239.00	1,105.97	1,077.82	28.15	39.294		
3,800.00	3,670.39	3,615.79	3,587.65	20.08	14.16	-156.23	-385.71	244.02	1,140.04	1,111.08	28.95	39.378		
3,900.00	3,765.97	3,709.81	3,680.79	20.69	14.55	-156.24	-397.53	249.04	1,174.10	1,144.35	29.76	39.456		
4,000.00	3,861.54	3,803.83	3,773.93	21.30	14.94	-156.26	-409.34	254.07	1,208.17	1,177.61	30.56	39.530		
4,100.00	3,957.12	3,897.84	3,867.06	21.90	15.33	-156.27	-421.16	259.09	1,242.24	1,210.87	31.37	39.600		
4,200.00	4,052.70	3,991.86	3,960.20	22.51	15.72	-156.28	-432.97	264.11	1,276.31	1,244.14	32.18	39.666		
4,300.00	4,148.28	4,085.88	4,053.34	23.12	16.11	-156.29	-444.79	269.14	1,310.38	1,277.40	32.98	39.729		
4,400.00	4,243.85	4,179.90	4,146.47	23.73	16.50	-156.30	-456.60	274.16	1,344.45	1,310.66	33.79	39.789		
4,500.00	4,339.43	4,273.91	4,239.61	24.34	16.89	-156.31	-468.41	279.18	1,378.52	1,343.92	34.60	39.845		
4,600.00	4,435.01	4,367.93	4,332.75	24.95	17.27	-156.32	-480.23	284.20	1,412.59	1,377.18	35.40	39.899		
4,700.00	4,530.59	4,461.95	4,425.88	25.55	17.66	-156.33	-492.04	289.23	1,446.66	1,410.45	36.21	39.950		
4,800.00	4,626.16	4,555.97	4,519.02	26.16	18.05	-156.34	-503.86	294.25	1,480.73	1,443.71	37.02	39.999		

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 4B-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 4B-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 #4	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W - SULLIVAN 4K-26H-P268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.94	0.10	90.07	90.07				
100.00	100.00	100.00	100.00	0.14	0.14	89.94	0.10	90.07	90.07	89.80	0.28	326.325	
200.00	200.00	200.00	200.00	0.50	0.50	89.94	0.10	90.07	90.07	89.08	0.99	90.711	
300.00	300.00	300.00	300.00	0.85	0.85	89.94	0.10	90.07	90.07	88.36	1.71	52.677 CC, ES	
400.00	399.98	399.98	399.98	1.20	1.21	-166.81	0.10	90.07	91.77	89.35	2.42	37.952	
500.00	499.84	499.84	499.84	1.56	1.57	-167.49	0.10	90.07	96.87	93.75	3.13	30.977	
600.00	599.45	599.45	599.45	1.92	1.93	-168.48	0.10	90.07	105.40	101.56	3.84	27.430	
700.00	698.70	696.96	696.94	2.29	2.26	-168.88	-1.34	90.86	118.10	113.55	4.54	25.995	
800.00	797.47	793.49	793.34	2.69	2.59	-168.17	-5.63	93.20	135.66	130.43	5.24	25.902 SF	
900.00	895.62	888.63	888.14	3.11	2.91	-166.80	-12.65	97.04	158.10	152.16	5.94	26.613	
1,000.00	993.06	982.01	980.88	3.57	3.24	-165.11	-22.22	102.27	185.43	178.78	6.65	27.880	
1,100.00	1,089.64	1,076.62	1,074.63	4.06	3.59	-163.60	-33.42	108.38	216.94	209.57	7.37	29.419	
1,155.17	1,142.53	1,128.47	1,126.00	4.35	3.79	-163.01	-39.55	111.74	235.72	227.94	7.78	30.300	
1,200.00	1,185.37	1,170.46	1,167.61	4.59	3.95	-162.71	-44.52	114.45	251.37	243.27	8.11	31.008	
1,300.00	1,280.95	1,264.13	1,260.42	5.14	4.31	-162.15	-55.61	120.51	286.31	277.47	8.84	32.397	
1,400.00	1,376.53	1,357.80	1,353.23	5.71	4.67	-161.72	-66.70	126.57	321.26	311.68	9.58	33.539	
1,500.00	1,472.11	1,451.46	1,446.04	6.28	5.04	-161.37	-77.79	132.62	356.23	345.90	10.33	34.490	
1,600.00	1,567.68	1,545.13	1,538.85	6.86	5.41	-161.09	-88.87	138.68	391.21	380.12	11.09	35.291	
1,700.00	1,663.26	1,638.80	1,631.67	7.45	5.78	-160.85	-99.96	144.74	426.19	414.34	11.85	35.973	
1,800.00	1,758.84	1,732.47	1,724.48	8.03	6.15	-160.64	-111.05	150.80	461.18	448.56	12.61	36.560	
1,900.00	1,854.42	1,826.13	1,817.29	8.63	6.53	-160.47	-122.14	156.85	496.17	482.79	13.38	37.070	
2,000.00	1,949.99	1,919.80	1,910.10	9.22	6.91	-160.32	-133.22	162.91	531.17	517.01	14.16	37.515	
2,100.00	2,045.57	2,013.47	2,002.91	9.82	7.28	-160.19	-144.31	168.97	566.17	551.23	14.94	37.908	
2,200.00	2,141.15	2,107.14	2,095.72	10.41	7.66	-160.07	-155.40	175.03	601.17	585.46	15.71	38.257	
2,300.00	2,236.73	2,200.80	2,188.53	11.01	8.04	-159.96	-166.49	181.08	636.18	619.68	16.49	38.568	
2,400.00	2,332.30	2,294.47	2,281.35	11.61	8.42	-159.87	-177.58	187.14	671.18	653.90	17.28	38.847	
2,500.00	2,427.88	2,388.14	2,374.16	12.21	8.80	-159.79	-188.66	193.20	706.19	688.13	18.06	39.099	
2,600.00	2,523.46	2,481.81	2,466.97	12.82	9.19	-159.71	-199.75	199.26	741.20	722.35	18.85	39.328	
2,700.00	2,619.04	2,575.47	2,559.78	13.42	9.57	-159.64	-210.84	205.31	776.21	756.57	19.63	39.536	
2,800.00	2,714.61	2,669.14	2,652.59	14.02	9.95	-159.58	-221.93	211.37	811.22	790.80	20.42	39.725	
2,900.00	2,810.19	2,762.81	2,745.40	14.63	10.33	-159.52	-233.01	217.43	846.23	825.02	21.21	39.899	
3,000.00	2,905.77	2,856.48	2,838.21	15.23	10.72	-159.47	-244.10	223.49	881.24	859.24	22.00	40.060	
3,100.00	3,001.35	2,950.14	2,931.03	15.84	11.10	-159.42	-255.19	229.54	916.25	893.47	22.79	40.208	
3,200.00	3,096.92	3,043.81	3,023.84	16.44	11.48	-159.37	-266.28	235.60	951.27	927.69	23.58	40.344	
3,300.00	3,192.50	3,137.48	3,116.65	17.05	11.87	-159.33	-277.36	241.66	986.28	961.91	24.37	40.471	
3,400.00	3,288.08	3,231.15	3,209.46	17.65	12.25	-159.29	-288.45	247.72	1,021.29	996.13	25.16	40.590	
3,500.00	3,383.66	3,324.81	3,302.27	18.26	12.64	-159.25	-299.54	253.77	1,056.31	1,030.35	25.95	40.700	
3,600.00	3,479.23	3,418.48	3,395.08	18.87	13.02	-159.22	-310.63	259.83	1,091.32	1,064.58	26.75	40.803	
3,700.00	3,574.81	3,512.15	3,487.90	19.47	13.41	-159.19	-321.72	265.89	1,126.34	1,098.80	27.54	40.899	
3,800.00	3,670.39	3,605.82	3,580.71	20.08	13.79	-159.15	-332.80	271.95	1,161.35	1,133.02	28.33	40.990	
3,900.00	3,765.97	3,699.48	3,673.52	20.69	14.18	-159.13	-343.89	278.00	1,196.37	1,167.24	29.13	41.075	
4,000.00	3,861.54	3,793.15	3,766.33	21.30	14.56	-159.10	-354.98	284.06	1,231.39	1,201.46	29.92	41.155	
4,100.00	3,957.12	3,886.82	3,859.14	21.90	14.95	-159.07	-366.07	290.12	1,266.40	1,235.69	30.72	41.230	
4,200.00	4,052.70	3,980.49	3,951.95	22.51	15.33	-159.05	-377.15	296.18	1,301.42	1,269.91	31.51	41.302	
4,300.00	4,148.28	4,074.15	4,044.76	23.12	15.72	-159.03	-388.24	302.23	1,336.43	1,304.13	32.30	41.369	
4,400.00	4,243.85	4,167.82	4,137.58	23.73	16.10	-159.00	-399.33	308.29	1,371.45	1,338.35	33.10	41.433	
4,500.00	4,339.43	4,261.49	4,230.39	24.34	16.49	-158.98	-410.42	314.35	1,406.47	1,372.57	33.90	41.494	
4,600.00	4,435.01	4,355.16	4,323.20	24.95	16.88	-158.96	-421.50	320.41	1,441.49	1,406.79	34.69	41.552	
4,700.00	4,530.59	4,448.82	4,416.01	25.55	17.26	-158.95	-432.59	326.46	1,476.50	1,441.02	35.49	41.607	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SULLIVAN 4B-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 4B-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 #4	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	90.07	-0.12	99.87	99.87				
100.00	100.00	100.00	100.00	0.14	0.14	90.07	-0.12	99.87	99.87	99.59	0.28	361.800	
200.00	200.00	200.00	200.00	0.50	0.50	90.07	-0.12	99.87	99.87	98.87	0.99	100.573 CC, ES	
300.00	300.00	297.51	297.49	0.85	0.84	90.72	-1.27	101.06	101.10	99.39	1.71	59.071	
400.00	399.98	394.71	394.56	1.20	1.18	-164.15	-4.70	104.64	106.56	104.12	2.44	43.633	
500.00	499.84	491.09	490.59	1.56	1.52	-162.11	-10.35	110.52	118.00	114.81	3.19	36.995	
600.00	599.45	586.17	585.00	1.92	1.88	-160.02	-18.12	118.61	135.42	131.48	3.95	34.323	
700.00	698.70	680.64	678.40	2.29	2.26	-158.11	-27.89	128.79	158.66	153.98	4.68	33.874 SF	
800.00	797.47	776.84	773.41	2.69	2.66	-156.86	-38.38	139.72	185.78	180.39	5.39	34.472	
900.00	895.62	872.15	867.53	3.11	3.05	-156.23	-48.77	150.55	216.00	209.90	6.10	35.411	
1,000.00	993.06	966.45	960.65	3.57	3.45	-156.00	-59.06	161.26	249.25	242.43	6.82	36.538	
1,100.00	1,089.64	1,059.63	1,052.67	4.06	3.84	-156.03	-69.22	171.85	285.49	277.94	7.55	37.809	
1,155.17	1,142.53	1,110.52	1,102.93	4.35	4.06	-156.12	-74.77	177.63	306.76	298.81	7.96	38.540	
1,200.00	1,185.37	1,151.71	1,143.60	4.59	4.23	-156.35	-79.27	182.31	324.42	316.13	8.29	39.143	
1,300.00	1,280.95	1,243.60	1,234.34	5.14	4.63	-156.78	-89.29	192.75	363.80	354.78	9.02	40.339	
1,400.00	1,376.53	1,335.48	1,325.08	5.71	5.02	-157.13	-99.31	203.19	403.21	393.45	9.76	41.324	
1,500.00	1,472.11	1,427.37	1,415.82	6.28	5.41	-157.42	-109.33	213.63	442.62	432.12	10.50	42.145	
1,600.00	1,567.68	1,519.25	1,506.56	6.86	5.81	-157.66	-119.35	224.07	482.04	470.79	11.25	42.840	
1,700.00	1,663.26	1,611.14	1,597.29	7.45	6.20	-157.87	-129.37	234.50	521.47	509.46	12.01	43.434	
1,800.00	1,758.84	1,703.02	1,688.03	8.03	6.59	-158.04	-139.40	244.94	560.90	548.14	12.76	43.946	
1,900.00	1,854.42	1,794.91	1,778.77	8.63	6.99	-158.20	-149.42	255.38	600.34	586.81	13.52	44.393	
2,000.00	1,949.99	1,886.79	1,869.51	9.22	7.38	-158.33	-159.44	265.82	639.77	625.49	14.29	44.785	
2,100.00	2,045.57	1,978.67	1,960.24	9.82	7.78	-158.45	-169.46	276.26	679.22	664.17	15.05	45.133	
2,200.00	2,141.15	2,070.56	2,050.98	10.41	8.18	-158.55	-179.48	286.70	718.66	702.85	15.81	45.442	
2,300.00	2,236.73	2,162.44	2,141.72	11.01	8.57	-158.65	-189.50	297.14	758.11	741.52	16.58	45.719	
2,400.00	2,332.30	2,254.33	2,232.46	11.61	8.97	-158.73	-199.53	307.58	797.55	780.20	17.35	45.969	
2,500.00	2,427.88	2,346.21	2,323.20	12.21	9.36	-158.81	-209.55	318.02	837.00	818.88	18.12	46.194	
2,600.00	2,523.46	2,438.10	2,413.93	12.82	9.76	-158.88	-219.57	328.46	876.45	857.56	18.89	46.400	
2,700.00	2,619.04	2,529.98	2,504.67	13.42	10.16	-158.94	-229.59	338.90	915.90	896.24	19.66	46.587	
2,800.00	2,714.61	2,621.87	2,595.41	14.02	10.55	-159.00	-239.61	349.34	955.35	934.92	20.43	46.759	
2,900.00	2,810.19	2,713.75	2,686.15	14.63	10.95	-159.06	-249.63	359.78	994.81	973.60	21.20	46.917	
3,000.00	2,905.77	2,805.64	2,776.89	15.23	11.35	-159.11	-259.66	370.22	1,034.26	1,012.28	21.98	47.062	
3,100.00	3,001.35	2,897.52	2,867.62	15.84	11.74	-159.15	-269.68	380.65	1,073.71	1,050.96	22.75	47.197	
3,200.00	3,096.92	2,989.41	2,958.36	16.44	12.14	-159.20	-279.70	391.09	1,113.17	1,089.64	23.52	47.322	
3,300.00	3,192.50	3,081.29	3,049.10	17.05	12.54	-159.24	-289.72	401.53	1,152.62	1,128.33	24.30	47.439	
3,400.00	3,288.08	3,173.17	3,139.84	17.65	12.93	-159.27	-299.74	411.97	1,192.08	1,167.01	25.07	47.547	
3,500.00	3,383.66	3,265.06	3,230.58	18.26	13.33	-159.31	-309.76	422.41	1,231.53	1,205.69	25.85	47.648	
3,600.00	3,479.23	3,356.94	3,321.31	18.87	13.73	-159.34	-319.79	432.85	1,270.99	1,244.37	26.62	47.743	
3,700.00	3,574.81	3,448.83	3,412.05	19.47	14.12	-159.37	-329.81	443.29	1,310.45	1,283.05	27.40	47.832	
3,800.00	3,670.39	3,540.71	3,502.79	20.08	14.52	-159.40	-339.83	453.73	1,349.90	1,321.73	28.17	47.916	
3,900.00	3,765.97	3,632.60	3,593.53	20.69	14.92	-159.43	-349.85	464.17	1,389.36	1,360.41	28.95	47.995	
4,000.00	3,861.54	3,724.48	3,684.27	21.30	15.31	-159.46	-359.87	474.61	1,428.82	1,399.09	29.72	48.069	
4,100.00	3,957.12	3,816.37	3,775.00	21.90	15.71	-159.48	-369.89	485.05	1,468.27	1,437.77	30.50	48.139	

Cathedral Energy Services

Anticollision Report

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

Offset Design S26-T2N-R68W - Sullivan 6-8-26 - CPR - SURVEYS													Offset Site Error: 0.00 usft	
Survey Program: 165-Geolink MWD													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
1,100.00	1,089.64	1,454.81	1,423.75	4.06	5.39	10.77	-123.37	-1,544.24	1,484.87	1,477.52	7.35	202.105		
1,155.17	1,142.53	1,497.16	1,464.39	4.35	5.61	10.72	-128.80	-1,533.65	1,456.97	1,449.31	7.66	190.121		
1,200.00	1,185.37	1,531.07	1,496.99	4.59	5.78	10.59	-132.96	-1,525.29	1,434.08	1,426.18	7.91	181.392		
1,300.00	1,280.95	1,605.13	1,568.43	5.14	6.14	10.35	-140.79	-1,507.46	1,383.49	1,375.05	8.44	164.013		
1,400.00	1,376.53	1,671.16	1,632.36	5.71	6.45	10.13	-147.64	-1,492.36	1,333.99	1,325.02	8.97	148.676		
1,500.00	1,472.11	1,739.93	1,699.03	6.28	6.77	9.85	-155.75	-1,477.59	1,285.81	1,276.26	9.56	134.562		
1,600.00	1,567.68	1,844.40	1,800.04	6.86	7.30	9.25	-170.62	-1,455.52	1,238.21	1,227.94	10.26	120.627		
1,700.00	1,663.26	1,941.40	1,893.27	7.45	7.80	8.57	-185.64	-1,433.35	1,189.12	1,178.15	10.97	108.411		
1,800.00	1,758.84	2,028.17	1,976.74	8.03	8.24	7.95	-198.24	-1,413.26	1,139.84	1,128.20	11.64	97.919		
1,900.00	1,854.42	2,126.56	2,071.61	8.63	8.74	7.32	-210.13	-1,390.06	1,090.09	1,077.80	12.29	88.672		
2,000.00	1,949.99	2,206.00	2,148.15	9.22	9.15	6.74	-220.04	-1,371.29	1,040.41	1,027.44	12.97	80.192		
2,100.00	2,045.57	2,299.00	2,237.59	9.82	9.63	5.94	-232.65	-1,349.15	990.81	977.13	13.67	72.456		
2,200.00	2,141.15	2,380.00	2,315.58	10.41	10.04	5.21	-242.92	-1,329.82	941.19	926.82	14.37	65.497		
2,300.00	2,236.73	2,468.40	2,400.92	11.01	10.47	4.42	-252.90	-1,309.00	891.84	876.79	15.05	59.259		
2,400.00	2,332.30	2,554.99	2,484.54	11.61	10.91	3.60	-262.07	-1,288.47	842.39	826.64	15.75	53.486		
2,500.00	2,427.88	2,639.04	2,565.71	12.21	11.32	2.70	-271.03	-1,268.64	793.21	776.74	16.47	48.169		
2,600.00	2,523.46	2,714.70	2,638.83	12.82	11.69	1.75	-279.91	-1,251.34	745.01	727.75	17.26	43.154		
2,700.00	2,619.04	2,805.42	2,726.31	13.42	12.16	0.28	-292.44	-1,230.86	697.66	679.56	18.10	38.550		
2,800.00	2,714.61	2,893.65	2,811.27	14.02	12.60	-1.35	-304.54	-1,210.38	650.12	631.15	18.96	34.284		
2,900.00	2,810.19	2,978.62	2,893.18	14.63	13.04	-3.12	-315.77	-1,190.74	603.03	583.14	19.89	30.323		
3,000.00	2,905.77	3,065.62	2,977.15	15.23	13.46	-5.17	-326.87	-1,170.87	556.62	535.78	20.84	26.713		
3,100.00	3,001.35	3,155.16	3,063.63	15.84	13.92	-7.56	-337.60	-1,150.30	510.57	488.70	21.86	23.353		
3,200.00	3,096.92	3,244.00	3,149.30	16.44	14.35	-10.44	-348.36	-1,129.36	464.89	441.92	22.97	20.235		
3,300.00	3,192.50	3,323.04	3,225.67	17.05	14.74	-13.41	-357.58	-1,111.22	420.70	396.41	24.29	17.323		
3,400.00	3,288.08	3,418.53	3,317.95	17.65	15.21	-17.80	-369.02	-1,089.53	378.28	352.64	25.65	14.750		
3,500.00	3,383.66	3,510.57	3,406.79	18.26	15.68	-22.87	-377.87	-1,067.18	335.60	308.38	27.22	12.330		
3,600.00	3,479.23	3,596.95	3,489.84	18.87	16.14	-29.04	-386.45	-1,045.04	294.84	265.65	29.19	10.102		
3,700.00	3,574.81	3,683.87	3,573.23	19.47	16.60	-36.98	-395.23	-1,022.12	257.95	226.44	31.51	8.186		
3,800.00	3,670.39	3,759.99	3,646.52	20.08	16.97	-45.32	-403.31	-1,003.25	228.58	194.57	34.01	6.721		
3,900.00	3,765.97	3,840.94	3,724.88	20.69	17.36	-55.28	-413.73	-985.84	210.86	174.78	36.08	5.845		
4,000.00	3,861.54	3,931.64	3,812.97	21.30	17.74	-67.09	-425.99	-968.05	204.39	167.13	37.25	5.487		
4,031.69	3,891.84	3,961.98	3,842.63	21.49	17.86	-70.94	-429.47	-962.70	204.03	166.63	37.40	5.455	CC, ES, SF	
4,100.00	3,957.12	4,028.34	3,907.77	21.90	18.09	-79.09	-435.92	-951.87	205.53	168.17	37.36	5.502		
4,200.00	4,052.70	4,122.53	4,000.69	22.51	18.38	-89.85	-443.19	-938.31	213.15	176.61	36.54	5.833		
4,300.00	4,148.28	4,218.48	4,095.72	23.12	18.64	-99.50	-449.47	-926.55	226.57	191.30	35.27	6.424		
4,400.00	4,243.85	4,314.83	4,191.43	23.73	18.87	-107.66	-454.98	-917.02	244.03	210.06	33.97	7.184		
4,500.00	4,339.43	4,412.73	4,288.94	24.34	19.06	-114.45	-460.10	-909.93	263.83	230.90	32.93	8.012		
4,600.00	4,435.01	4,509.74	4,385.65	24.95	19.24	-120.17	-464.55	-903.84	285.61	253.46	32.16	8.882		
4,700.00	4,530.59	4,611.06	4,486.79	25.55	19.39	-125.34	-467.66	-898.82	307.88	276.17	31.71	9.709		
4,800.00	4,626.16	4,710.01	4,585.67	26.16	19.51	-129.74	-469.31	-895.37	330.13	298.63	31.50	10.479		
4,900.00	4,721.74	4,807.15	4,682.77	26.77	19.63	-133.52	-470.40	-892.65	353.13	321.62	31.51	11.208		
5,000.00	4,817.32	4,903.98	4,779.56	27.38	19.73	-136.89	-470.85	-890.24	376.85	345.17	31.68	11.896		
5,100.00	4,912.90	4,998.28	4,873.83	27.99	19.84	-139.89	-470.56	-887.76	401.49	369.54	31.95	12.566		
5,200.00	5,008.47	5,092.58	4,968.08	28.60	19.94	-142.64	-469.75	-884.83	427.29	394.98	32.31	13.226		
5,300.00	5,104.05	5,195.83	5,071.31	29.21	20.02	-145.25	-468.95	-882.72	453.03	420.21	32.83	13.801		
5,400.00	5,199.63	5,297.21	5,172.69	29.82	20.09	-147.38	-468.68	-882.78	477.71	444.32	33.38	14.311		
5,500.00	5,295.21	5,393.34	5,268.81	30.43	20.15	-149.22	-468.18	-883.23	502.44	468.53	33.91	14.815		
5,600.00	5,390.78	5,489.47	5,364.93	31.03	20.22	-150.92	-467.27	-883.65	527.55	493.09	34.46	15.308		
5,700.00	5,486.36	5,585.66	5,461.12	31.64	20.28	-152.50	-466.17	-884.12	552.98	517.95	35.02	15.790		
5,800.00	5,581.94	5,675.92	5,551.37	32.25	20.37	-153.85	-465.23	-884.33	579.03	543.49	35.54	16.291		
5,900.00	5,677.52	5,763.75	5,639.19	32.86	20.47	-155.00	-465.05	-883.58	606.56	570.51	36.05	16.826		
6,000.00	5,773.09	5,865.96	5,741.40	33.47	20.54	-156.20	-465.14	-882.40	634.67	597.99	36.68	17.304		

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 4B-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 4B-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 #4	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		
6,100.00	5,868.67	5,972.62	5,848.05	34.08	20.61	-157.42	-464.13	-882.88	661.31	623.98	37.33	17.715		
6,200.00	5,964.25	6,073.01	5,948.42	34.69	20.65	-158.52	-462.52	-884.36	687.11	649.18	37.93	18.116		
6,300.00	6,059.83	6,172.40	6,047.77	35.30	20.70	-159.55	-460.55	-886.42	712.51	674.00	38.51	18.501		
6,400.00	6,155.40	6,269.91	6,145.23	35.91	20.74	-160.51	-458.25	-888.69	737.82	698.74	39.08	18.880		
6,500.00	6,250.98	6,367.25	6,242.50	36.52	20.78	-161.44	-455.65	-891.11	763.13	723.49	39.64	19.251		
6,600.00	6,346.56	6,464.54	6,339.72	37.13	20.82	-162.30	-453.04	-893.68	788.46	748.26	40.20	19.612		
6,700.00	6,442.14	6,559.27	6,434.38	37.74	20.86	-163.09	-450.47	-896.21	813.92	773.18	40.74	19.977		
6,800.00	6,537.71	6,653.25	6,528.30	38.35	20.91	-163.84	-447.83	-898.49	839.76	798.48	41.28	20.345		
6,900.00	6,633.29	6,746.48	6,621.47	38.96	20.96	-164.54	-445.17	-900.49	865.99	824.19	41.80	20.717		
7,008.07	6,736.58	6,846.77	6,721.70	39.62	21.02	-165.25	-442.31	-902.30	894.83	852.47	42.36	21.123		
7,050.00	6,776.72	6,885.18	6,760.09	39.87	21.05	-178.86	-441.24	-902.88	906.19	863.62	42.57	21.287		
7,100.00	6,824.59	6,931.03	6,805.92	40.15	21.08	165.10	-440.00	-903.47	919.86	877.06	42.80	21.494		
7,150.00	6,872.19	6,976.64	6,851.51	40.42	21.12	150.99	-438.81	-903.95	933.58	890.58	43.00	21.712		
7,200.00	6,919.22	7,022.40	6,897.26	40.67	21.15	139.65	-437.65	-904.32	947.31	904.12	43.18	21.937		
7,250.00	6,965.38	7,068.75	6,943.59	40.90	21.19	130.97	-436.51	-904.66	960.99	917.63	43.36	22.162		
7,300.00	7,010.41	7,114.02	6,988.85	41.10	21.22	124.43	-435.41	-904.98	974.65	931.12	43.52	22.394		
7,350.00	7,054.01	7,157.95	7,032.77	41.29	21.26	119.48	-434.36	-905.29	988.37	944.69	43.67	22.632		
7,400.00	7,095.93	7,200.29	7,075.09	41.46	21.29	115.71	-433.36	-905.57	1,002.26	958.45	43.81	22.875		
7,450.00	7,135.90	7,240.75	7,115.54	41.60	21.33	112.79	-432.44	-905.84	1,016.45	972.50	43.95	23.126		
7,500.00	7,173.67	7,279.06	7,153.84	41.73	21.36	110.47	-431.60	-906.09	1,031.07	986.98	44.09	23.385		
7,550.00	7,209.02	7,314.96	7,189.73	41.84	21.39	108.57	-430.84	-906.31	1,046.28	1,002.04	44.24	23.653		
7,600.00	7,241.72	7,348.23	7,223.00	41.94	21.42	106.93	-430.16	-906.52	1,062.20	1,017.81	44.39	23.930		
7,650.00	7,271.57	7,376.71	7,251.47	42.02	21.45	105.37	-429.61	-906.68	1,078.98	1,034.44	44.54	24.225		
7,700.00	7,298.40	7,401.64	7,276.39	42.08	21.47	103.82	-429.18	-906.77	1,096.76	1,052.06	44.70	24.534		
7,750.00	7,322.02	7,423.52	7,298.28	42.13	21.50	102.26	-428.85	-906.81	1,115.61	1,070.73	44.89	24.854		
7,800.00	7,342.31	7,442.27	7,317.02	42.17	21.52	100.61	-428.60	-906.82	1,135.55	1,090.47	45.09	25.186		
7,850.00	7,359.13	7,457.79	7,332.54	42.21	21.54	98.85	-428.42	-906.80	1,156.58	1,111.27	45.31	25.527		
7,900.00	7,372.37	7,470.03	7,344.78	42.23	21.55	96.93	-428.29	-906.78	1,178.64	1,133.09	45.55	25.877		
7,950.00	7,381.97	7,478.96	7,353.70	42.25	21.56	94.86	-428.21	-906.75	1,201.66	1,155.86	45.80	26.235		
8,000.00	7,387.85	7,484.54	7,359.29	42.26	21.57	92.62	-428.16	-906.73	1,225.54	1,179.46	46.07	26.599		
8,053.41	7,390.00	7,486.84	7,361.59	42.28	21.57	90.06	-428.14	-906.72	1,251.82	1,205.44	46.38	26.993		
8,100.00	7,390.00	7,487.19	7,361.94	42.29	21.57	90.08	-428.13	-906.72	1,275.68	1,229.03	46.65	27.346		
8,200.00	7,390.00	7,487.93	7,362.68	42.35	21.57	90.12	-428.13	-906.72	1,330.96	1,283.70	47.26	28.163		
8,300.00	7,390.00	7,488.67	7,363.42	42.44	21.57	90.16	-428.12	-906.71	1,391.24	1,343.37	47.87	29.060		
8,400.00	7,390.00	7,489.39	7,364.14	42.59	21.57	90.20	-428.11	-906.71	1,455.90	1,407.43	48.47	30.035		

Cathedral Energy Services

Anticollision Report

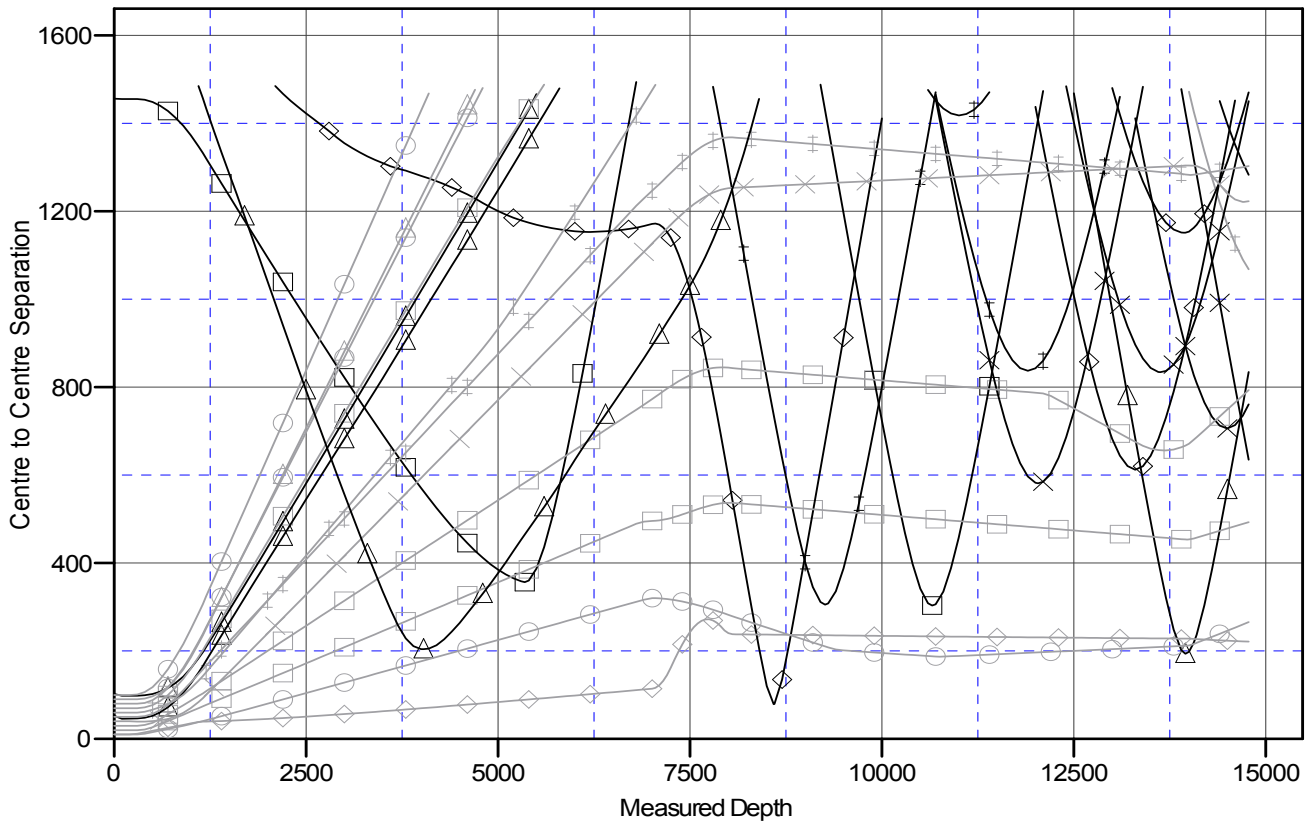
Company: Crestone Peak Resources
Project: DJ BASIN
Reference Site: S26-T2N-R68W
Site Error: 0.00usft
Reference Well: SULLIVAN 4B-26H-P268
Well Error: 0.00usft
Reference Wellbore: OH
Reference Design: PLAN #4

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

Ladder Plot



LEGEND

Wellbore #1, PLAN#1 V0	✕ Grant Brothers 33-23C, EXTRACTION, NO SURVEYS V0	▣ SULLIVAN 4E-26H-P268, OH, PLAN#2 V0
4-4-23, CPR WELL, SURVEYS V0	◆ Grant Brothers 34-23C, EXTRACTION, GYRO V0	✕ SULLIVAN 4F-26H-P268, OH, PLAN#2 V0
Gulch 21-26, CPR WELL, SURVEYS V0	▣ Johnson 1, KPK, NO SURVEYS V0	✕ SULLIVAN 4G-26H-P268, OH, PLAN#2 V0
23-2AE, EXTRACTION, SURVEYS V0	▲ Meredith 1, KPK WELL, NO SURVEYS V0	✕ SULLIVAN 4H-26H-P268, OH, PLAN#2 V0
23-4AE, EXTRACTION, SURVEYS V0	✕ Sullivan 33-26, CPR WELL, SURVEYS V0	▣ SULLIVAN 4I-26H-P268, OH, PLAN#2 V0
23-54, EXTRACTION, SURVEYS V0	▲ Sullivan 44-26, CPR WELL, GYRO V0	○ SULLIVAN 4J-26H-P268, OH, PLAN#2 V0
31-26, CPR WELL, GYRO V0	◆ Sullivan 4-6-26, CPR WELL, SURVEYS V0	▲ SULLIVAN 4K-26H-P268, OH, PLAN#2 V0
32-26, CPR, GYRO V0	◆ SULLIVAN 4A-26H-P268, OH, PLAN#4 V0	○ SULLIVAN 4L-26H-P268, OH, PLAN#2 V0
3-23, CPR WELL, SURVEYS V0	○ SULLIVAN 4C-26H-P268, OH, PLAN#3 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