



CRESTONE PEAK
RESOURCES

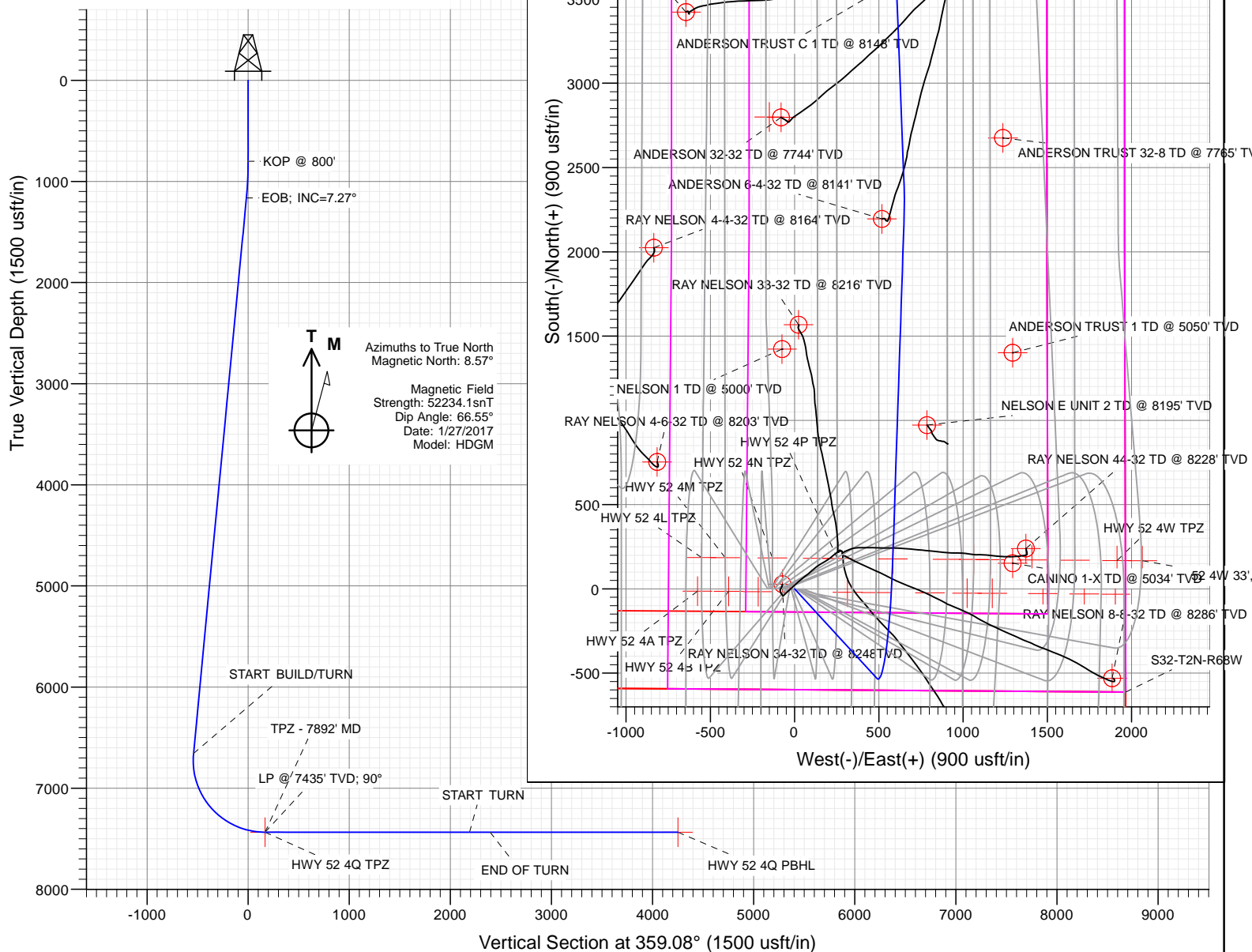
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	1163.41	7.27	137.39	1162.43	-16.94	15.58	2.00	137.39	-17.19	
4	6702.76	7.27	137.39	6657.28	-532.75	489.99	0.00	0.00	-540.55	
5	7892.48	90.00	1.90	7435.00	177.83	583.07	8.00	-135.27	168.45	HWY 52 4Q TPZ
6	9915.75	90.00	1.90	7435.00	2200.00	650.00	0.00	0.00	2189.28	
7	10120.42	90.00	357.80	7435.00	2404.62	649.46	2.00	-90.00	2393.89	
8	11978.18	90.00	357.80	7435.00	4261.02	578.22	0.00	0.00	4251.19	HWY 52 4Q PBHL

PLAN #2
HWY52 4Q-32H-O268
17000' LR
23 KB @ 5015.00usft
Ground Level @ 4992.00
North American Datum 1983
Well HWY52 4Q-32H-O268, True North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
User	No Target (Freehand)		Slot	0.00	0.00	0.00
Name		TVD				
HWY 52 4Q PBHL		7435.00		+N/-S	+E/-W	Latitude
HWY 52 4Q TPZ		7435.00		4261.02	578.22	40.101051
				177.83	583.07	-105.022630

Project: DJ BASIN
Site: S32-T2N-R68W
Well: HWY52 4Q-32H-O268
Wellbore: OH
Design: PLAN #2



WELL DETAILS: HWY52 4Q-32H-O268

+N/-S	+E/-W	Northing	Ground Level:	4992.00	Latitude	Longitude
0.00	0.00	1275752.63	Easting	3132977.98	40.089354	-105.024714

CATHEDRAL



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 5015.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 5015.00usft
Site:	S32-T2N-R68W	North Reference:	True
Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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

Site		S32-T2N-R68W			
Site Position:		Northing:	1,275,752.56 usft	Latitude:	40.089356
From:	Lat/Long	Easting:	3,132,818.22 usft	Longitude:	-105.025285
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.31 °

Well	HWY52 4Q-32H-O268					
Well Position	+N/-S	0.00 usft	Northing:	1,275,752.63 usft	Latitude:	40.089354
	+E/-W	0.00 usft	Easting:	3,132,977.98 usft	Longitude:	-105.024714
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,992.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	1/27/2017	8.57	66.55	52,234

Design	PLAN #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	359.08

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,163.41	7.27	137.39	1,162.43	-16.94	15.58	2.00	2.00	0.00	137.39	
6,702.76	7.27	137.39	6,657.28	-532.75	489.99	0.00	0.00	0.00	0.00	
7,892.48	90.00	1.90	7,435.00	177.83	583.07	8.00	6.95	-11.39	-135.27	HWY 52 4Q TPZ
9,915.75	90.00	1.90	7,435.00	2,200.00	650.00	0.00	0.00	0.00	0.00	
10,120.42	90.00	357.80	7,435.00	2,404.62	649.46	2.00	0.00	-2.00	-90.00	
11,978.18	90.00	357.80	7,435.00	4,261.02	578.22	0.00	0.00	0.00	0.00	HWY 52 4Q PBHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 5015.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 5015.00usft
Site:	S32-T2N-R68W	North Reference:	True
Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	KOP @ 800'
900.00	2.00	137.39	899.98	-1.28	1.18	-1.30	2.00	2.00	
1,000.00	4.00	137.39	999.84	-5.14	4.72	-5.21	2.00	2.00	
1,100.00	6.00	137.39	1,099.45	-11.55	10.62	-11.72	2.00	2.00	
1,163.41	7.27	137.39	1,162.43	-16.94	15.58	-17.19	2.00	2.00	EOB; INC=7.27°
1,200.00	7.27	137.39	1,198.73	-20.35	18.72	-20.65	0.00	0.00	
1,300.00	7.27	137.39	1,297.93	-29.66	27.28	-30.10	0.00	0.00	
1,400.00	7.27	137.39	1,397.13	-38.97	35.85	-39.54	0.00	0.00	
1,500.00	7.27	137.39	1,496.32	-48.29	44.41	-48.99	0.00	0.00	
1,600.00	7.27	137.39	1,595.52	-57.60	52.97	-58.44	0.00	0.00	
1,700.00	7.27	137.39	1,694.71	-66.91	61.54	-67.89	0.00	0.00	
1,800.00	7.27	137.39	1,793.91	-76.22	70.10	-77.34	0.00	0.00	
1,900.00	7.27	137.39	1,893.11	-85.53	78.67	-86.78	0.00	0.00	
2,000.00	7.27	137.39	1,992.30	-94.84	87.23	-96.23	0.00	0.00	
2,100.00	7.27	137.39	2,091.50	-104.16	95.80	-105.68	0.00	0.00	
2,200.00	7.27	137.39	2,190.70	-113.47	104.36	-115.13	0.00	0.00	
2,300.00	7.27	137.39	2,289.89	-122.78	112.92	-124.58	0.00	0.00	
2,400.00	7.27	137.39	2,389.09	-132.09	121.49	-134.02	0.00	0.00	
2,500.00	7.27	137.39	2,488.29	-141.40	130.05	-143.47	0.00	0.00	
2,600.00	7.27	137.39	2,587.48	-150.71	138.62	-152.92	0.00	0.00	
2,700.00	7.27	137.39	2,686.68	-160.03	147.18	-162.37	0.00	0.00	
2,800.00	7.27	137.39	2,785.88	-169.34	155.75	-171.82	0.00	0.00	
2,900.00	7.27	137.39	2,885.07	-178.65	164.31	-181.26	0.00	0.00	
3,000.00	7.27	137.39	2,984.27	-187.96	172.87	-190.71	0.00	0.00	
3,100.00	7.27	137.39	3,083.47	-197.27	181.44	-200.16	0.00	0.00	
3,200.00	7.27	137.39	3,182.66	-206.58	190.00	-209.61	0.00	0.00	
3,300.00	7.27	137.39	3,281.86	-215.90	198.57	-219.06	0.00	0.00	
3,400.00	7.27	137.39	3,381.05	-225.21	207.13	-228.50	0.00	0.00	
3,500.00	7.27	137.39	3,480.25	-234.52	215.70	-237.95	0.00	0.00	
3,600.00	7.27	137.39	3,579.45	-243.83	224.26	-247.40	0.00	0.00	
3,700.00	7.27	137.39	3,678.64	-253.14	232.82	-256.85	0.00	0.00	
3,800.00	7.27	137.39	3,777.84	-262.45	241.39	-266.30	0.00	0.00	
3,900.00	7.27	137.39	3,877.04	-271.77	249.95	-275.75	0.00	0.00	
4,000.00	7.27	137.39	3,976.23	-281.08	258.52	-285.19	0.00	0.00	
4,100.00	7.27	137.39	4,075.43	-290.39	267.08	-294.64	0.00	0.00	
4,200.00	7.27	137.39	4,174.63	-299.70	275.65	-304.09	0.00	0.00	
4,300.00	7.27	137.39	4,273.82	-309.01	284.21	-313.54	0.00	0.00	
4,400.00	7.27	137.39	4,373.02	-318.33	292.77	-322.99	0.00	0.00	
4,500.00	7.27	137.39	4,472.22	-327.64	301.34	-332.43	0.00	0.00	
4,600.00	7.27	137.39	4,571.41	-336.95	309.90	-341.88	0.00	0.00	
4,700.00	7.27	137.39	4,670.61	-346.26	318.47	-351.33	0.00	0.00	
4,800.00	7.27	137.39	4,769.81	-355.57	327.03	-360.78	0.00	0.00	
4,900.00	7.27	137.39	4,869.00	-364.88	335.60	-370.23	0.00	0.00	
5,000.00	7.27	137.39	4,968.20	-374.20	344.16	-379.67	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 5015.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 5015.00usft
Site:	S32-T2N-R68W	North Reference:	True
Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
5,100.00	7.27	137.39	5,067.40	-383.51	352.72	-389.12	0.00	0.00	
5,200.00	7.27	137.39	5,166.59	-392.82	361.29	-398.57	0.00	0.00	
5,300.00	7.27	137.39	5,265.79	-402.13	369.85	-408.02	0.00	0.00	
5,400.00	7.27	137.39	5,364.98	-411.44	378.42	-417.47	0.00	0.00	
5,500.00	7.27	137.39	5,464.18	-420.75	386.98	-426.91	0.00	0.00	
5,600.00	7.27	137.39	5,563.38	-430.07	395.55	-436.36	0.00	0.00	
5,700.00	7.27	137.39	5,662.57	-439.38	404.11	-445.81	0.00	0.00	
5,800.00	7.27	137.39	5,761.77	-448.69	412.67	-455.26	0.00	0.00	
5,900.00	7.27	137.39	5,860.97	-458.00	421.24	-464.71	0.00	0.00	
6,000.00	7.27	137.39	5,960.16	-467.31	429.80	-474.15	0.00	0.00	
6,100.00	7.27	137.39	6,059.36	-476.62	438.37	-483.60	0.00	0.00	
6,200.00	7.27	137.39	6,158.56	-485.94	446.93	-493.05	0.00	0.00	
6,300.00	7.27	137.39	6,257.75	-495.25	455.50	-502.50	0.00	0.00	
6,400.00	7.27	137.39	6,356.95	-504.56	464.06	-511.95	0.00	0.00	
6,500.00	7.27	137.39	6,456.15	-513.87	472.62	-521.39	0.00	0.00	
6,600.00	7.27	137.39	6,555.34	-523.18	481.19	-530.84	0.00	0.00	
6,700.00	7.27	137.39	6,654.54	-532.50	489.75	-540.29	0.00	0.00	
6,702.76	7.27	137.39	6,657.28	-532.75	489.99	-540.55	0.00	0.00	START BUILD/TURN
6,800.00	5.73	64.86	6,754.03	-535.22	498.56	-543.16	8.00	-1.58	
6,900.00	11.76	27.34	6,852.89	-524.03	507.78	-532.12	8.00	6.02	
7,000.00	19.27	16.71	6,949.20	-499.14	517.21	-507.38	8.00	7.51	
7,100.00	27.05	11.98	7,041.08	-461.03	526.69	-469.43	8.00	7.79	
7,200.00	34.93	9.25	7,126.74	-410.45	536.03	-419.00	8.00	7.88	
7,300.00	42.85	7.43	7,204.52	-348.37	545.04	-357.08	8.00	7.92	
7,400.00	50.79	6.08	7,272.89	-276.01	553.55	-284.86	8.00	7.94	
7,500.00	58.74	5.01	7,330.54	-194.78	561.40	-203.77	8.00	7.95	
7,600.00	66.70	4.10	7,376.34	-106.25	568.42	-115.36	8.00	7.96	
7,700.00	74.66	3.30	7,409.39	-12.15	574.49	-21.38	8.00	7.96	
7,800.00	82.63	2.56	7,429.06	85.68	579.49	76.37	8.00	7.97	
7,892.48	90.00	1.90	7,435.00	177.84	583.07	168.45	8.00	7.97	LP @ 7435' TVD; 90° - TPZ - 7892' MD
7,900.00	90.00	1.90	7,435.00	185.35	583.32	175.96	0.00	0.00	
8,000.00	90.00	1.90	7,435.00	285.30	586.63	275.84	0.00	0.00	
8,100.00	90.00	1.90	7,435.00	385.24	589.94	375.72	0.00	0.00	
8,200.00	90.00	1.90	7,435.00	485.19	593.24	475.60	0.00	0.00	
8,300.00	90.00	1.90	7,435.00	585.13	596.55	575.48	0.00	0.00	
8,400.00	90.00	1.90	7,435.00	685.08	599.86	675.36	0.00	0.00	
8,500.00	90.00	1.90	7,435.00	785.03	603.17	775.24	0.00	0.00	
8,600.00	90.00	1.90	7,435.00	884.97	606.48	875.12	0.00	0.00	
8,700.00	90.00	1.90	7,435.00	984.92	609.78	975.00	0.00	0.00	
8,800.00	90.00	1.90	7,435.00	1,084.86	613.09	1,074.88	0.00	0.00	
8,900.00	90.00	1.90	7,435.00	1,184.81	616.40	1,174.76	0.00	0.00	
9,000.00	90.00	1.90	7,435.00	1,284.75	619.71	1,274.64	0.00	0.00	
9,100.00	90.00	1.90	7,435.00	1,384.70	623.02	1,374.52	0.00	0.00	
9,200.00	90.00	1.90	7,435.00	1,484.64	626.32	1,474.39	0.00	0.00	
9,300.00	90.00	1.90	7,435.00	1,584.59	629.63	1,574.27	0.00	0.00	
9,400.00	90.00	1.90	7,435.00	1,684.53	632.94	1,674.15	0.00	0.00	
9,500.00	90.00	1.90	7,435.00	1,784.48	636.25	1,774.03	0.00	0.00	
9,600.00	90.00	1.90	7,435.00	1,884.42	639.56	1,873.91	0.00	0.00	
9,700.00	90.00	1.90	7,435.00	1,984.37	642.86	1,973.79	0.00	0.00	
9,800.00	90.00	1.90	7,435.00	2,084.31	646.17	2,073.67	0.00	0.00	
9,900.00	90.00	1.90	7,435.00	2,184.26	649.48	2,173.55	0.00	0.00	
9,915.75	90.00	1.90	7,435.00	2,200.00	650.00	2,189.28	0.00	0.00	START TURN

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Company:	Crestone Peak Resources	TVD Reference:	23' KB @ 5015.00usft
Project:	DJ BASIN	MD Reference:	23' KB @ 5015.00usft
Site:	S32-T2N-R68W	North Reference:	True
Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
10,000.00	90.00	0.21	7,435.00	2,284.23	651.55	2,273.48	2.00	0.00	
10,100.00	90.00	358.21	7,435.00	2,384.22	650.17	2,373.47	2.00	0.00	
10,120.42	90.00	357.80	7,435.00	2,404.62	649.46	2,393.89	2.00	0.00	END OF TURN
10,200.00	90.00	357.80	7,435.00	2,484.15	646.41	2,473.45	0.00	0.00	
10,300.00	90.00	357.80	7,435.00	2,584.07	642.57	2,573.42	0.00	0.00	
10,400.00	90.00	357.80	7,435.00	2,684.00	638.74	2,673.40	0.00	0.00	
10,500.00	90.00	357.80	7,435.00	2,783.93	634.90	2,773.37	0.00	0.00	
10,600.00	90.00	357.80	7,435.00	2,883.85	631.07	2,873.35	0.00	0.00	
10,700.00	90.00	357.80	7,435.00	2,983.78	627.23	2,973.32	0.00	0.00	
10,800.00	90.00	357.80	7,435.00	3,083.71	623.40	3,073.30	0.00	0.00	
10,900.00	90.00	357.80	7,435.00	3,183.63	619.57	3,173.27	0.00	0.00	
11,000.00	90.00	357.80	7,435.00	3,283.56	615.73	3,273.25	0.00	0.00	
11,100.00	90.00	357.80	7,435.00	3,383.49	611.90	3,373.22	0.00	0.00	
11,200.00	90.00	357.80	7,435.00	3,483.41	608.06	3,473.20	0.00	0.00	
11,300.00	90.00	357.80	7,435.00	3,583.34	604.23	3,573.17	0.00	0.00	
11,400.00	90.00	357.80	7,435.00	3,683.27	600.39	3,673.15	0.00	0.00	
11,500.00	90.00	357.80	7,435.00	3,783.19	596.56	3,773.13	0.00	0.00	
11,600.00	90.00	357.80	7,435.00	3,883.12	592.72	3,873.10	0.00	0.00	
11,700.00	90.00	357.80	7,435.00	3,983.04	588.89	3,973.08	0.00	0.00	
11,800.00	90.00	357.80	7,435.00	4,082.97	585.05	4,073.05	0.00	0.00	
11,900.00	90.00	357.80	7,435.00	4,182.90	581.22	4,173.03	0.00	0.00	
11,978.18	90.00	357.80	7,435.00	4,261.02	578.22	4,251.19	0.00	0.00	TD at 11978.18

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
HWY 52 4Q PBHL - plan hits target center - Point	0.00	0.00	7,435.00	4,261.02	578.22	1,280,016.69	3,133,533.36	40.101051	-105.022647
HWY 52 4Q TPZ - plan hits target center - Point	0.00	0.00	7,435.00	177.83	583.07	1,275,933.58	3,133,560.09	40.089842	-105.022630

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
800.00	800.00	0.00	0.00	KOP @ 800'
1,163.41	1,162.43	-16.94	15.58	EOB; INC=7.27°
6,702.76	6,657.28	-532.75	489.99	START BUILD/TURN
7,892.48	7,435.00	177.83	583.07	LP @ 7435' TVD; 90°
7,892.48	7,435.00	177.84	583.07	TPZ - 7892' MD
9,915.75	7,435.00	2,200.00	650.00	START TURN
10,120.42	7,435.00	2,404.62	649.46	END OF TURN
11,978.18	7,435.00	4,261.02	578.22	TD at 11978.18

Crestone Peak Resources

DJ BASIN

S32-T2N-R68W

HWY52 4Q-32H-O268

OH

PLAN #2

Anticollision Report

22 February, 2017

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	2/22/2017
From (usft)	To (usft)	Survey (Wellbore)
0.00	11,977.48	PLAN #2 (OH)
		Tool Name
		MWD+HDGM
		Description
		OWSG MWD + HDGM

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
S32-T2N-R68W						
Anderson 32-32 - CPR WELL - SURVEYS	10,500.00	7,568.89	705.41	629.69	9.316	SF
Anderson 32-32 - CPR WELL - SURVEYS	10,533.90	7,569.46	704.60	629.30	9.357	CC, ES
Anderson 41-32 - CPR - NO SURVEYS	11,921.64	7,315.00	894.77	806.40	10.125	CC, ES
Anderson 41-32 - CPR - NO SURVEYS	11,978.18	7,315.00	896.56	807.24	10.037	SF
Anderson 4-2-32 - CPR WELL - SURVEYS	11,192.54	7,648.35	1,243.42	1,165.17	15.891	CC
Anderson 4-2-32 - CPR WELL - SURVEYS	11,200.00	7,648.36	1,243.44	1,165.17	15.886	ES
Anderson 4-2-32 - CPR WELL - SURVEYS	11,300.00	7,648.45	1,248.06	1,169.45	15.877	SF
Anderson 6-4-32 - CPR WELL - SURVEYS	9,900.00	7,624.29	119.71	42.85	1.558	ES, SF
Anderson 6-4-32 - CPR WELL - SURVEYS	9,909.27	7,624.29	119.35	42.87	1.561	CC
Anderson Trust 1 - KPK - NO SURVEYS						Out of range
Anderson Trust 1 A - CPR WELL - SURVEYS						Out of range
Anderson Trust 32-2 - CPR WELL - GYRO	11,924.82	7,360.41	642.68	558.93	7.674	CC, ES, SF
Anderson Trust 32-8 - CPR - NO SURVEYS	10,368.80	7,393.00	597.03	531.06	9.050	CC, ES
Anderson Trust 32-8 - CPR - NO SURVEYS	10,400.00	7,393.00	597.84	531.20	8.971	SF
Anderson Trust C 1 - CPR WELL - GYRO	11,430.39	7,370.21	198.90	122.88	2.617	CC, ES, SF
Anderson Trust C Unit 2 - CPR WELL - GYRO						Out of range
Brown 22-5 - CPR WELL - SURVEYS						Out of range
Brown 31-5 - CPR WELL - SURVEYS	6,768.55	6,993.89	903.38	832.70	12.783	CC, ES
Brown 31-5 - CPR WELL - SURVEYS	6,850.00	7,066.92	907.52	836.19	12.723	SF
Brown 41-5 - CPR WELL - SURVEYS	1,303.93	1,279.00	302.99	294.76	36.806	CC, ES
Brown 41-5 - CPR WELL - SURVEYS	6,850.00	6,962.86	1,007.24	968.79	26.192	SF
Brown 5-3 - CPR WELL - GYRO						Out of range
Brown C Unit 1 - CPR WELL - GYRO						Out of range
Brown C Unit 2 - CPR WELL - GYRO						Out of range
Canino 1-X - HUGHES CW - NO SURVEYS	5,145.22	5,034.00	1,081.85	1,053.16	37.705	CC, ES
Canino 1-X - HUGHES CW - NO SURVEYS	5,200.00	5,034.00	1,083.24	1,054.38	37.530	SF
Champlin 86 Amoco F 6 - KPK - NO SURVEYS						Out of range
Champlin Amoco 86 F 7 - KPK WELL - SURVEYS						Out of range
Foster 33-5 - CPR WELL - SURVEYS						Out of range
Foster 43-5 - CPR WELL - SURVEYS						Out of range
Foster 4-5 - CPR WELL - SURVEYS						Out of range
Foster 4-6-5 - CPR WELL - SURVEYS						Out of range
Foster 6-4-5 - CPR - SURVEYS						Out of range
Foster 6-4-5X - CPR WELL - SURVEYS						Out of range
Foster 6-8-5 - CPR WELL - SURVEYS						Out of range
Foster 8-8-5 - CPR WELL - SURVEYS						Out of range
Foster E Unit 1 - CPR - GYRO						Out of range
Gene 11-5 - KERR-MCGEE - SURVEYS						Out of range
HWY52 4A-32H-O268 - OH - PLAN #2	200.00	200.00	159.76	158.77	160.892	CC, ES
HWY52 4A-32H-O268 - OH - PLAN #2	7,500.00	8,100.21	1,212.56	1,157.18	21.894	SF
HWY52 4B-32H-O268 - OH - PLAN #2	300.00	300.00	149.97	148.26	87.705	CC
HWY52 4B-32H-O268 - OH - PLAN #2	400.00	398.90	150.33	147.91	62.028	ES
HWY52 4B-32H-O268 - OH - PLAN #2	8,300.00	7,455.22	903.24	845.78	15.721	SF
HWY52 4C-32H-O268 - OH - PLAN #2	400.00	400.00	139.90	137.47	57.645	CC
HWY52 4C-32H-O268 - OH - PLAN #2	600.00	598.89	140.63	136.78	36.462	ES
HWY52 4C-32H-O268 - OH - PLAN #2	8,100.00	7,576.51	788.76	732.47	14.013	SF
HWY52 4D-32H-O268 - OH - PLAN #2	934.32	940.64	124.96	118.69	19.912	CC, ES
HWY52 4D-32H-O268 - OH - PLAN #2	8,209.57	7,561.75	260.66	203.10	4.528	SF
HWY52 4E-32H-O268 - OH - PLAN #2	7,810.29	7,811.68	96.44	40.80	1.733	CC, ES, SF
HWY52 4F-32H-O268 - OH - PLAN #2	894.41	901.79	85.05	78.93	13.906	CC
HWY52 4F-32H-O268 - OH - PLAN #2	900.00	907.30	85.06	78.90	13.814	ES
HWY52 4F-32H-O268 - OH - PLAN #2	8,147.62	7,577.43	195.14	137.65	3.395	SF
HWY52 4G-32H-O268 - OH - PLAN #2	1,081.88	1,090.37	91.69	84.39	12.560	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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
S32-T2N-R68W						
HWY52 4G-32H-O268 - OH - PLAN #2	1,100.00	1,108.61	91.75	84.33	12.353	ES
HWY52 4G-32H-O268 - OH - PLAN #2	8,300.00	7,514.99	355.28	296.30	6.024	SF
HWY52 4H-32H-O268 - OH - PLAN #2	1,110.91	1,120.18	68.09	60.56	9.037	CC, ES
HWY52 4H-32H-O268 - OH - PLAN #2	1,200.00	1,208.49	70.65	62.47	8.631	SF
HWY52 4I-32H-O268 - OH - PLAN #2	1,044.93	1,052.30	50.41	43.32	7.111	CC, ES
HWY52 4I-32H-O268 - OH - PLAN #2	1,100.00	1,106.64	51.84	44.35	6.920	SF
HWY52 4J-32H-O268 - OH - PLAN #2	967.29	972.90	32.53	25.97	4.957	CC, ES
HWY52 4J-32H-O268 - OH - PLAN #2	1,000.00	1,005.08	33.26	26.46	4.889	SF
HWY52 4K-32H-O268 - OH - PLAN #2	853.15	857.05	22.23	16.46	3.856	CC, ES, SF
HWY52 4L-32H-O268 - OH - PLAN #2	200.00	200.00	49.80	48.81	50.156	CC, ES
HWY52 4L-32H-O268 - OH - PLAN #2	11,978.18	12,117.05	1,154.51	1,004.80	7.712	SF
HWY52 4M-32H-O268 - OH - PLAN #2	200.00	200.00	40.01	39.02	40.294	CC, ES
HWY52 4M-32H-O268 - OH - PLAN #2	11,978.18	12,049.62	1,000.03	847.20	6.544	SF
HWY52 4N-32H-O268 - OH - PLAN #2	300.00	300.00	29.94	28.23	17.508	CC
HWY52 4N-32H-O268 - OH - PLAN #2	400.00	399.79	30.28	27.86	12.555	ES
HWY52 4N-32H-O268 - OH - PLAN #2	11,978.18	11,960.10	715.04	561.45	4.656	SF
HWY52 4O-32H-O268 - OH - PLAN #2	371.82	371.92	19.18	16.98	8.713	CC
HWY52 4O-32H-O268 - OH - PLAN #2	400.00	400.03	19.27	16.87	8.026	ES
HWY52 4O-32H-O268 - OH - PLAN #2	11,978.18	12,171.39	498.70	355.93	3.493	SF
HWY52 4P-32H-O268 - OH - PLAN #2	800.00	800.00	9.79	4.50	1.850	CC, ES
HWY52 4P-32H-O268 - OH - PLAN #2	900.00	899.98	11.05	5.05	1.843	SF
HWY52 4R-32H-O268 - OH - PLAN #2	700.00	700.00	10.07	5.49	2.200	CC, ES
HWY52 4R-32H-O268 - OH - PLAN #2	800.00	799.67	11.56	6.27	2.186	SF
HWY52 4S-32H-O268 - OH - PLAN #2	600.00	600.00	20.14	16.28	5.218	CC, ES
HWY52 4S-32H-O268 - OH - PLAN #2	11,978.18	12,253.72	530.16	391.50	3.823	SF
HWY52 4T-32H-O268 - OH - PLAN #2	500.00	500.00	30.22	27.07	9.612	CC, ES
HWY52 4T-32H-O268 - OH - PLAN #2	11,978.18	12,044.78	580.20	427.66	3.804	SF
HWY52 4U-32H-O268 - OH - PLAN #2	400.00	400.00	40.01	37.58	16.487	CC, ES
HWY52 4U-32H-O268 - OH - PLAN #2	11,978.18	12,030.43	831.01	680.35	5.516	SF
HWY52 4V-32H-O268 - OH - PLAN #2	300.00	300.00	50.08	48.37	29.290	CC, ES
HWY52 4V-32H-O268 - OH - PLAN #2	11,978.18	12,135.65	1,080.11	927.34	7.070	SF
HWY52 4W-32H-O268 - OH - PLAN #2	115.99	117.99	60.16	59.76	151.217	CC
HWY52 4W-32H-O268 - OH - PLAN #2	200.00	201.98	60.16	59.16	60.167	ES
HWY52 4W-32H-O268 - OH - PLAN #2	11,978.18	12,243.21	1,348.76	1,199.37	9.029	SF
Nelson 1 - TEXAS TEA - NO SURVEYS	800.00	754.00	1,424.85	1,420.86	356.493	CC, ES
Nelson 1 - TEXAS TEA - NO SURVEYS	1,700.00	1,648.71	1,496.01	1,487.24	170.723	SF
Nelson E Unit 1 - CPR WELL - GYRO						Out of range
Nelson E Unit 2 - CPR WELL - GYRO	8,672.61	7,381.87	192.17	150.32	4.593	CC, ES
Nelson E Unit 2 - CPR WELL - GYRO	8,700.00	7,382.65	194.11	151.37	4.542	SF
Osarkson 2-8-33 - CPR WELL - SURVEYS						Out of range
Oskarson 23-33 - CPR WELL - GYRO						Out of range
Oskarson 4 - HRM - NO SURVEYS						Out of range
Oskarson 4-4-33 - CPR WELL - SURVEYS						Out of range
Oskarson 4-6-33 - CPR WELL - SURVEYS						Out of range
Oskarson 4-8-33 - CPR WELL - SURVEYS						Out of range
Oskarson E Unit 1 - CPR WELL - GYRO						Out of range
Paquette 14-5 - KERR-MCGEE - GYRO						Out of range
Rasmussen 10-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 16-29 - KMG WELL - SURVEYS	11,978.18	7,544.81	1,406.26	1,333.19	19.246	CC, ES, SF
Rasmussen 19-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 20-29 - CPR WELL - SURVEYS						Out of range
Rasmussen 22-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 23-29 - KMG WELL - KMG WELL						Out of range

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
S32-T2N-R68W						
Rasmussen 25-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 36-29 - KMG WELL - SURVEYS	11,978.18	7,446.35	1,396.57	1,294.42	13.671	CC, ES, SF
Rasmussen 37-29 - KMG WELL - SURVEYS	11,978.18	7,491.83	551.57	488.09	8.690	CC, ES, SF
Rasmussen 39-29 - KMG WELL - SURVEYS						Out of range
Rasmussen Fed 35-29 - KMG WELL - SURVEYS						Out of range
Ray Nelson 13-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 14-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 23-32 - CPR WELL - GYRO						Out of range
Ray Nelson 24-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 2-4-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 33-32 - CPR WELL - SURVEYS	1,062.52	1,042.11	338.09	332.75	63.378	CC, ES
Ray Nelson 33-32 - CPR WELL - SURVEYS	9,300.00	7,600.77	604.31	538.11	9.129	SF
Ray Nelson 34-32 - CPR WELL - SURVEYS	1,279.25	1,258.84	356.09	349.61	54.937	CC
Ray Nelson 34-32 - CPR WELL - SURVEYS	1,300.00	1,279.00	356.11	349.52	54.015	ES
Ray Nelson 34-32 - CPR WELL - SURVEYS	7,700.00	7,440.70	660.31	619.25	16.081	SF
Ray Nelson 44-32 - CPR WELL - SURVEYS	163.17	142.17	351.31	350.73	595.971	CC, ES
Ray Nelson 44-32 - CPR WELL - SURVEYS	8,200.00	7,553.75	823.95	779.98	18.738	SF
Ray Nelson 4-4-32 - CPR WELL - SURVEYS	9,679.79	7,445.36	1,474.37	1,392.43	17.993	CC, ES
Ray Nelson 4-4-32 - CPR WELL - SURVEYS	9,800.00	7,446.90	1,479.26	1,396.66	17.909	SF
Ray Nelson 4-6-32 - CPR WELL - SURVEYS	8,400.54	7,450.65	1,410.16	1,343.29	21.090	CC, ES
Ray Nelson 4-6-32 - CPR WELL - SURVEYS	8,700.00	7,457.20	1,441.58	1,371.43	20.550	SF
Ray Nelson 8-8-32 - CPR WELL - SURVEYS	100.00	75.94	354.06	353.80	1,395.764	CC, ES
Ray Nelson 8-8-32 - CPR WELL - SURVEYS	7,050.00	7,272.07	1,378.30	1,334.79	31.671	SF
SEC Four 12-4 - KMG WELL - SURVEYS						Out of range
SEC Four 13-4 - KMG WELL - SURVEYS						Out of range
SEC Four 14-4 - KMG WELL - SURVEYS						Out of range
SEC Four 21-4 - KMG WELL - SURVEYS						Out of range
SEC Four 22-4 - KMG WELL - SURVEYS						Out of range
SEC Four 31-4 - KMG WELL - SURVEYS						Out of range
SEC Four 32-4 - KMG WELL - SURVEYS						Out of range
SEC Four 33-4 - KMG WELL - SURVEYS						Out of range
SEC Four 3-4 - KMG WELL - SURVEYS						Out of range
SEC Four 35-4 - KMG WELL - SURVEYS						Out of range
SEC Four 4-4 - KMG WELL - SURVEYS						Out of range
SEC Four 5-4 - KMG WELL - SURVEYS						Out of range
SEC Four 6-4 - KMG WELL - SURVEYS						Out of range
Tallgrass 1-8 - KMG - SURVEYS						Out of range
Tallgrass 2-8 - KMG - SURVEYS						Out of range
Tallgrass 3-8 - KMG - SURVEYS						Out of range
Tallgrass 4-8 - KMG - SURVEYS						Out of range
Tallgrass 5-8 - KMG - NO SURVEYS						Out of range

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
S32-T2N-R68W (File/Hwy 52)						
File 3A-32H-K268 - Hz - FINAL						Out of range
File 3A-32H-K268 - Hz - Plan #7						Out of range
File 3B-32H-K268 - Hz - FINAL						Out of range
File 3B-32H-K268 - Hz - Plan #4						Out of range
File 3C-32H-K268 - Hz - FINAL						Out of range
File 3C-32H-K268 - Hz - Plan #4						Out of range
File 3D-32H-K268 - Hz - FINAL						Out of range
File 3D-32H-K268 - Hz - Plan #4						Out of range
File 3E-32H-K268 - Hz - FINAL						Out of range
File 3E-32H-K268 - Hz - Plan #3						Out of range
File 3F-32H-K268 - Hz - FINAL						Out of range
File 3F-32H-K268 - Hz - Plan #3						Out of range
File 3G-32H-K268 - Hz - FINAL						Out of range
File 3G-32H-K268 - Hz - Plan #6						Out of range
File 3H-32H-K268 - Hz - FINAL						Out of range
File 3H-32H-K268 - Hz - Plan #3						Out of range
File 3I-32H-K268 - Hz - FINAL						Out of range
File 3I-32H-K268 - Hz - Plan #5						Out of range
File 3J-32H-K268 - Hz - FINAL						Out of range
File 3J-32H-K268 - Hz - Plan #3						Out of range
File 3K-32H-K268 - Hz - FINAL						Out of range
File 3K-32H-K268 - Hz - Plan #3						Out of range
File 3L-32H-K268 - Hz - FINAL						Out of range
File 3L-32H-K268 - Hz - Plan #4						Out of range
File 3M-32H-K268 - Hz - FINAL						Out of range
File 3M-32H-K268 - Hz - Plan #4						Out of range
File 3N-32H-K268 - Hz - FINAL						Out of range
File 3N-32H-K268 - Hz - Plan #3						Out of range
File 3O-32H-K268 - Hz - FINAL						Out of range
File 3O-32H-K268 - Hz - Plan #3						Out of range
File 3P-32H-K268 - Hz - FINAL						Out of range
File 3P-32H-K268 - Hz - Plan #5	11,978.18	10,722.29	1,478.27	1,344.48	11.049	CC, ES, SF

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Anderson 32-32 - CPR WELL - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 71-Geolink MWD													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)						
9,200.00	7,435.00	7,549.36	7,344.30	38.52	27.53	-87.00	2,790.48	-69.69	1,480.25	1,421.99	58.26	25.408		
9,300.00	7,435.00	7,550.74	7,345.69	39.64	27.53	-87.11	2,790.50	-69.73	1,394.53	1,335.20	59.33	23.503		
9,400.00	7,435.00	7,552.13	7,347.08	40.79	27.53	-87.22	2,790.52	-69.77	1,310.84	1,250.28	60.56	21.646		
9,500.00	7,435.00	7,553.53	7,348.48	41.97	27.53	-87.33	2,790.54	-69.80	1,229.58	1,167.63	61.95	19.848		
9,600.00	7,435.00	7,554.94	7,349.88	43.17	27.53	-87.43	2,790.57	-69.84	1,151.27	1,087.75	63.52	18.124		
9,700.00	7,435.00	7,556.35	7,351.30	44.39	27.53	-87.54	2,790.59	-69.88	1,076.57	1,011.30	65.27	16.494		
9,800.00	7,435.00	7,557.78	7,352.72	45.64	27.54	-87.65	2,790.61	-69.92	1,006.26	939.07	67.18	14.978		
9,900.00	7,435.00	7,559.21	7,354.15	46.90	27.54	-87.76	2,790.63	-69.95	941.33	872.12	69.21	13.601		
9,915.75	7,435.00	7,559.44	7,354.38	47.10	27.54	-87.78	2,790.64	-69.96	931.67	862.14	69.53	13.399		
10,000.00	7,435.00	7,560.68	7,355.62	48.18	27.54	-87.83	2,790.66	-69.99	881.95	810.70	71.25	12.378		
10,100.00	7,435.00	7,562.25	7,357.20	49.50	27.54	-87.91	2,790.68	-70.04	827.39	754.22	73.17	11.308		
10,120.42	7,435.00	7,562.59	7,357.53	49.77	27.54	-87.93	2,790.69	-70.04	816.93	743.40	73.53	11.110		
10,200.00	7,435.00	7,563.90	7,358.84	50.84	27.54	-88.03	2,790.71	-70.08	779.69	704.89	74.80	10.424		
10,300.00	7,435.00	7,565.55	7,360.49	52.20	27.54	-88.17	2,790.73	-70.12	742.40	666.47	75.93	9.777		
10,400.00	7,435.00	7,567.22	7,362.15	53.57	27.55	-88.30	2,790.76	-70.17	717.21	640.91	76.30	9.400		
10,500.00	7,435.00	7,568.89	7,363.83	54.95	27.55	-88.44	2,790.79	-70.21	705.41	629.69	75.72	9.316 SF		
10,533.90	7,435.00	7,569.46	7,364.40	55.42	27.55	-88.49	2,790.80	-70.23	704.60	629.30	75.30	9.357 CC, ES		
10,600.00	7,435.00	7,570.58	7,365.51	56.34	27.55	-88.58	2,790.81	-70.26	707.69	633.52	74.17	9.541		
10,700.00	7,435.00	7,572.27	7,367.21	57.75	27.55	-88.72	2,790.84	-70.31	723.90	652.04	71.86	10.073		
10,800.00	7,435.00	7,573.98	7,368.91	59.17	27.55	-88.85	2,790.87	-70.35	753.16	684.01	69.14	10.893		
10,900.00	7,435.00	7,575.70	7,370.63	60.60	27.55	-88.99	2,790.90	-70.40	794.01	727.62	66.38	11.961		
11,000.00	7,435.00	7,577.43	7,372.36	62.04	27.56	-89.13	2,790.93	-70.45	844.77	780.90	63.87	13.227		
11,100.00	7,435.00	7,579.17	7,374.10	63.48	27.56	-89.28	2,790.95	-70.49	903.79	842.06	61.73	14.642		
11,200.00	7,435.00	7,580.92	7,375.85	64.94	27.56	-89.42	2,790.98	-70.54	969.54	909.57	59.97	16.167		
11,300.00	7,435.00	7,582.68	7,377.61	66.40	27.56	-89.56	2,791.01	-70.59	1,040.76	982.22	58.55	17.777		
11,400.00	7,435.00	7,584.45	7,379.38	67.87	27.56	-89.71	2,791.04	-70.64	1,116.40	1,059.01	57.39	19.452		
11,500.00	7,435.00	7,586.24	7,381.17	69.34	27.56	-89.85	2,791.07	-70.69	1,195.63	1,139.18	56.45	21.181		
11,600.00	7,435.00	7,588.03	7,382.96	70.83	27.57	-90.00	2,791.10	-70.74	1,277.76	1,222.09	55.67	22.952		
11,700.00	7,435.00	7,589.84	7,384.77	72.31	27.57	-90.14	2,791.13	-70.79	1,362.29	1,307.26	55.03	24.757		
11,800.00	7,435.00	7,591.66	7,386.59	73.81	27.57	-90.29	2,791.16	-70.84	1,448.78	1,394.30	54.49	26.590		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Anderson 41-32 - CPR - NO SURVEYS													Offset Site Error: 0.00 usft	
Survey Program: 8470-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		
10,800.00	7,435.00	7,315.00	7,315.00	59.17	13.11	90.00	4,238.83	1,474.50	1,434.81	1,383.12	51.69	27.759		
10,900.00	7,435.00	7,315.00	7,315.00	60.60	13.11	90.00	4,238.83	1,474.50	1,358.07	1,304.13	53.94	25.176		
11,000.00	7,435.00	7,315.00	7,315.00	62.04	13.11	90.00	4,238.83	1,474.50	1,284.54	1,228.01	56.52	22.726		
11,100.00	7,435.00	7,315.00	7,315.00	63.48	13.11	90.00	4,238.83	1,474.50	1,214.79	1,155.35	59.44	20.437		
11,200.00	7,435.00	7,315.00	7,315.00	64.94	13.11	90.00	4,238.83	1,474.50	1,149.51	1,086.81	62.70	18.334		
11,300.00	7,435.00	7,315.00	7,315.00	66.40	13.11	90.00	4,238.83	1,474.50	1,089.52	1,023.25	66.27	16.441		
11,400.00	7,435.00	7,315.00	7,315.00	67.87	13.11	90.00	4,238.83	1,474.50	1,035.72	965.63	70.09	14.777		
11,500.00	7,435.00	7,315.00	7,315.00	69.34	13.11	90.00	4,238.83	1,474.50	989.14	915.07	74.07	13.354		
11,600.00	7,435.00	7,315.00	7,315.00	70.83	13.11	90.00	4,238.83	1,474.50	950.83	872.78	78.05	12.183		
11,700.00	7,435.00	7,315.00	7,315.00	72.31	13.11	90.00	4,238.83	1,474.50	921.81	839.98	81.83	11.265		
11,800.00	7,435.00	7,315.00	7,315.00	73.81	13.11	90.00	4,238.83	1,474.50	903.00	817.80	85.20	10.599		
11,900.00	7,435.00	7,315.00	7,315.00	75.31	13.11	90.00	4,238.83	1,474.50	895.03	807.09	87.95	10.177		
11,921.64	7,435.00	7,315.00	7,315.00	75.57	13.11	90.00	4,238.83	1,474.50	894.77	806.40	88.37	10.125 CC, ES		
11,978.18	7,435.00	7,315.00	7,315.00	76.25	13.11	90.00	4,238.83	1,474.50	896.56	807.24	89.32	10.037 SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Anderson 4-2-32 - CPR WELL - SURVEYS													Offset Site Error: 0.00 usft	
Survey Program: 71-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		
10,400.00	7,435.00	7,647.61	7,374.03	53.57	31.98	-89.59	3,428.27	-634.13	1,474.52	1,401.50	73.02	20.193		
10,500.00	7,435.00	7,647.71	7,374.12	54.95	31.98	-89.59	3,428.27	-634.13	1,423.27	1,349.25	74.03	19.226		
10,600.00	7,435.00	7,647.80	7,374.22	56.34	31.98	-89.60	3,428.27	-634.13	1,377.39	1,302.42	74.97	18.373		
10,700.00	7,435.00	7,647.89	7,374.31	57.75	31.98	-89.60	3,428.27	-634.13	1,337.42	1,261.61	75.81	17.641		
10,800.00	7,435.00	7,647.99	7,374.41	59.17	31.98	-89.60	3,428.27	-634.13	1,303.91	1,227.38	76.54	17.037		
10,900.00	7,435.00	7,648.08	7,374.50	60.60	31.98	-89.61	3,428.27	-634.13	1,277.37	1,200.25	77.12	16.563		
11,000.00	7,435.00	7,648.17	7,374.59	62.04	31.98	-89.61	3,428.27	-634.13	1,258.24	1,180.66	77.58	16.218		
11,100.00	7,435.00	7,648.26	7,374.68	63.48	31.98	-89.62	3,428.27	-634.13	1,246.86	1,168.91	77.95	15.996		
11,192.54	7,435.00	7,648.35	7,374.77	64.83	31.98	-89.62	3,428.27	-634.13	1,243.42	1,165.17	78.25	15.891 CC		
11,200.00	7,435.00	7,648.36	7,374.77	64.94	31.98	-89.62	3,428.27	-634.13	1,243.44	1,165.17	78.27	15.886 ES		
11,300.00	7,435.00	7,648.45	7,374.87	66.40	31.98	-89.63	3,428.27	-634.13	1,248.06	1,169.45	78.61	15.877 SF		
11,400.00	7,435.00	7,648.54	7,374.96	67.87	31.98	-89.63	3,428.27	-634.13	1,260.61	1,181.62	78.99	15.959		
11,500.00	7,435.00	7,648.63	7,375.05	69.34	31.98	-89.63	3,428.27	-634.13	1,280.87	1,201.45	79.42	16.128		
11,600.00	7,435.00	7,648.72	7,375.14	70.83	31.98	-89.64	3,428.27	-634.13	1,308.48	1,228.63	79.85	16.387		
11,700.00	7,435.00	7,648.81	7,375.22	72.31	31.98	-89.64	3,428.27	-634.14	1,342.99	1,262.76	80.22	16.740		
11,800.00	7,435.00	7,648.89	7,375.31	73.81	31.98	-89.65	3,428.27	-634.14	1,383.87	1,303.37	80.51	17.189		
11,900.00	7,435.00	7,648.98	7,375.40	75.31	31.98	-89.65	3,428.27	-634.14	1,430.59	1,349.92	80.67	17.733		
11,978.18	7,435.00	7,649.05	7,375.47	76.25	31.98	-89.65	3,428.27	-634.14	1,470.83	1,390.26	80.57	18.256		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Anderson 6-4-32 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 71-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,500.00	7,435.00	7,624.60	7,381.43	31.72	30.33	-89.25	2,197.47	530.51	1,414.31	1,371.45	42.87	32.992	
8,600.00	7,435.00	7,624.58	7,381.40	32.56	30.33	-89.24	2,197.47	530.51	1,314.70	1,271.68	43.01	30.564	
8,700.00	7,435.00	7,624.55	7,381.38	33.44	30.33	-89.23	2,197.47	530.51	1,215.15	1,171.96	43.19	28.136	
8,800.00	7,435.00	7,624.53	7,381.36	34.38	30.33	-89.22	2,197.47	530.51	1,115.67	1,072.28	43.40	25.709	
8,900.00	7,435.00	7,624.51	7,381.33	35.36	30.33	-89.20	2,197.47	530.51	1,016.30	972.65	43.65	23.282	
9,000.00	7,435.00	7,624.49	7,381.31	36.38	30.33	-89.19	2,197.47	530.51	917.07	873.10	43.97	20.857	
9,100.00	7,435.00	7,624.46	7,381.29	37.43	30.33	-89.18	2,197.47	530.51	818.02	773.65	44.38	18.433	
9,200.00	7,435.00	7,624.44	7,381.27	38.52	30.33	-89.17	2,197.47	530.51	719.24	674.32	44.92	16.012	
9,300.00	7,435.00	7,624.42	7,381.24	39.64	30.33	-89.16	2,197.47	530.51	620.85	575.18	45.67	13.596	
9,400.00	7,435.00	7,624.40	7,381.22	40.79	30.33	-89.15	2,197.47	530.51	523.07	476.32	46.75	11.189	
9,500.00	7,435.00	7,624.37	7,381.20	41.97	30.33	-89.14	2,197.47	530.51	426.32	377.89	48.43	8.803	
9,600.00	7,435.00	7,624.35	7,381.18	43.17	30.33	-89.13	2,197.47	530.51	331.50	280.23	51.27	6.465	
9,700.00	7,435.00	7,624.33	7,381.16	44.39	30.33	-89.12	2,197.47	530.51	240.91	184.29	56.62	4.255	
9,800.00	7,435.00	7,624.31	7,381.13	45.64	30.33	-89.11	2,197.47	530.51	161.82	94.71	67.11	2.411	
9,900.00	7,435.00	7,624.29	7,381.11	46.90	30.33	-89.10	2,197.47	530.51	119.71	42.85	76.86	1.558 ES, SF	
9,909.27	7,435.00	7,624.29	7,381.11	47.02	30.33	-89.10	2,197.47	530.51	119.35	42.87	76.48	1.561 CC	
9,915.75	7,435.00	7,624.28	7,381.11	47.10	30.33	-89.10	2,197.47	530.51	119.53	43.51	76.02	1.572	
10,000.00	7,435.00	7,624.29	7,381.11	48.18	30.33	-89.11	2,197.47	530.51	148.93	87.40	61.53	2.420	
10,100.00	7,435.00	7,624.34	7,381.16	49.50	30.33	-89.17	2,197.47	530.51	221.80	173.78	48.02	4.619	
10,120.42	7,435.00	7,624.35	7,381.18	49.77	30.33	-89.18	2,197.47	530.51	238.88	192.39	46.49	5.138	
10,200.00	7,435.00	7,624.43	7,381.25	50.84	30.33	-89.21	2,197.47	530.51	309.22	266.25	42.97	7.196	
10,300.00	7,435.00	7,624.52	7,381.34	52.20	30.33	-89.25	2,197.47	530.51	402.52	361.17	41.35	9.735	
10,400.00	7,435.00	7,624.60	7,381.43	53.57	30.33	-89.30	2,197.47	530.51	498.42	457.56	40.87	12.197	
10,500.00	7,435.00	7,624.69	7,381.52	54.95	30.33	-89.33	2,197.47	530.51	595.68	554.89	40.79	14.605	
10,600.00	7,435.00	7,624.78	7,381.61	56.34	30.33	-89.37	2,197.47	530.51	693.71	652.86	40.85	16.980	
10,700.00	7,435.00	7,624.87	7,381.69	57.75	30.33	-89.41	2,197.47	530.50	792.24	751.26	40.98	19.333	
10,800.00	7,435.00	7,624.95	7,381.78	59.17	30.33	-89.45	2,197.47	530.50	891.09	849.97	41.12	21.671	
10,900.00	7,435.00	7,625.04	7,381.87	60.60	30.33	-89.49	2,197.47	530.50	990.18	948.91	41.26	23.997	
11,000.00	7,435.00	7,625.13	7,381.95	62.04	30.33	-89.53	2,197.47	530.50	1,089.43	1,048.03	41.40	26.314	
11,100.00	7,435.00	7,625.21	7,382.04	63.48	30.33	-89.57	2,197.47	530.50	1,188.80	1,147.27	41.53	28.624	
11,200.00	7,435.00	7,625.30	7,382.12	64.94	30.33	-89.61	2,197.47	530.50	1,288.28	1,246.62	41.66	30.926	
11,300.00	7,435.00	7,625.38	7,382.21	66.40	30.33	-89.65	2,197.47	530.50	1,387.83	1,346.05	41.77	33.223	
11,400.00	7,435.00	7,625.46	7,382.29	67.87	30.33	-89.68	2,197.47	530.49	1,487.44	1,445.55	41.88	35.513	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Anderson Trust 32-2 - CPR WELL - GYRO													Offset Site Error:	0.00 usft
Survey Program: 100- GyroFlex													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
10,600.00	7,435.00	7,350.88	7,348.93	56.34	8.54	-88.92	4,182.99	-61.90	1,472.45	1,427.47	44.98	32.736		
10,700.00	7,435.00	7,351.60	7,349.65	57.75	8.55	-88.99	4,182.99	-61.90	1,383.17	1,336.59	46.58	29.694		
10,800.00	7,435.00	7,352.32	7,350.37	59.17	8.55	-89.05	4,183.00	-61.90	1,295.45	1,247.03	48.43	26.751		
10,900.00	7,435.00	7,353.04	7,351.09	60.60	8.55	-89.12	4,183.00	-61.91	1,209.65	1,159.09	50.56	23.927		
11,000.00	7,435.00	7,353.76	7,351.81	62.04	8.55	-89.18	4,183.01	-61.91	1,126.18	1,073.17	53.01	21.244		
11,100.00	7,435.00	7,354.48	7,352.52	63.48	8.55	-89.25	4,183.01	-61.91	1,045.63	989.79	55.83	18.728		
11,200.00	7,435.00	7,355.20	7,353.24	64.94	8.55	-89.31	4,183.02	-61.92	968.70	909.65	59.05	16.404		
11,300.00	7,435.00	7,355.92	7,353.96	66.40	8.55	-89.37	4,183.02	-61.92	896.34	833.65	62.68	14.299		
11,400.00	7,435.00	7,356.64	7,354.68	67.87	8.55	-89.44	4,183.03	-61.92	829.74	763.05	66.68	12.443		
11,500.00	7,435.00	7,357.36	7,355.40	69.34	8.55	-89.50	4,183.03	-61.93	770.39	699.46	70.94	10.860		
11,600.00	7,435.00	7,358.08	7,356.12	70.83	8.55	-89.57	4,183.04	-61.93	720.10	644.90	75.20	9.576		
11,700.00	7,435.00	7,358.80	7,356.84	72.31	8.55	-89.63	4,183.04	-61.93	680.87	601.79	79.08	8.610		
11,800.00	7,435.00	7,359.52	7,357.56	73.81	8.55	-89.69	4,183.05	-61.93	654.69	572.62	82.07	7.977		
11,900.00	7,435.00	7,360.24	7,358.28	75.31	8.56	-89.76	4,183.05	-61.94	643.16	559.48	83.68	7.686		
11,924.82	7,435.00	7,360.41	7,358.46	75.61	8.56	-89.77	4,183.06	-61.94	642.68	558.93	83.75	7.674	CC, ES, SF	
11,978.18	7,435.00	7,360.80	7,358.85	76.25	8.56	-89.81	4,183.06	-61.94	644.89	561.36	83.53	7.720		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Anderson Trust 32-8 - CPR - NO SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 7765-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	7,435.00	7,393.00	7,393.00	37.43	13.23	90.00	2,675.71	1,236.52	1,429.38	1,388.15	41.22	34.673	
9,200.00	7,435.00	7,393.00	7,393.00	38.52	13.23	90.00	2,675.71	1,236.52	1,338.28	1,296.67	41.61	32.161	
9,300.00	7,435.00	7,393.00	7,393.00	39.64	13.23	90.00	2,675.71	1,236.52	1,248.55	1,206.42	42.13	29.637	
9,400.00	7,435.00	7,393.00	7,393.00	40.79	13.23	90.00	2,675.71	1,236.52	1,160.50	1,117.69	42.81	27.106	
9,500.00	7,435.00	7,393.00	7,393.00	41.97	13.23	90.00	2,675.71	1,236.52	1,074.54	1,030.83	43.71	24.581	
9,600.00	7,435.00	7,393.00	7,393.00	43.17	13.23	90.00	2,675.71	1,236.52	991.22	946.32	44.89	22.079	
9,700.00	7,435.00	7,393.00	7,393.00	44.39	13.23	90.00	2,675.71	1,236.52	911.26	864.84	46.42	19.630	
9,800.00	7,435.00	7,393.00	7,393.00	45.64	13.23	90.00	2,675.71	1,236.52	835.63	787.25	48.37	17.275	
9,900.00	7,435.00	7,393.00	7,393.00	46.90	13.23	90.00	2,675.71	1,236.52	765.60	714.80	50.81	15.069	
9,915.75	7,435.00	7,393.00	7,393.00	47.10	13.23	90.00	2,675.71	1,236.52	755.19	703.96	51.24	14.739	
10,000.00	7,435.00	7,393.00	7,393.00	48.18	13.23	90.00	2,675.71	1,236.52	703.88	650.11	53.77	13.089	
10,100.00	7,435.00	7,393.00	7,393.00	49.50	13.23	90.00	2,675.71	1,236.52	654.81	597.58	57.23	11.441	
10,120.42	7,435.00	7,393.00	7,393.00	49.77	13.23	90.00	2,675.71	1,236.52	646.63	588.66	57.98	11.153	
10,200.00	7,435.00	7,393.00	7,393.00	50.84	13.23	90.00	2,675.71	1,236.52	620.43	559.57	60.86	10.195	
10,300.00	7,435.00	7,393.00	7,393.00	52.20	13.23	90.00	2,675.71	1,236.52	600.98	536.83	64.15	9.369	
10,368.80	7,435.00	7,393.00	7,393.00	53.14	13.23	90.00	2,675.71	1,236.52	597.03	531.06	65.97	9.050 CC, ES	
10,400.00	7,435.00	7,393.00	7,393.00	53.57	13.23	90.00	2,675.71	1,236.52	597.84	531.20	66.64	8.971 SF	
10,500.00	7,435.00	7,393.00	7,393.00	54.95	13.23	90.00	2,675.71	1,236.52	611.27	543.22	68.05	8.983	
10,600.00	7,435.00	7,393.00	7,393.00	56.34	13.23	90.00	2,675.71	1,236.52	640.23	571.85	68.38	9.363	
10,700.00	7,435.00	7,393.00	7,393.00	57.75	13.23	90.00	2,675.71	1,236.52	682.74	614.89	67.85	10.062	
10,800.00	7,435.00	7,393.00	7,393.00	59.17	13.23	90.00	2,675.71	1,236.52	736.46	669.68	66.78	11.029	
10,900.00	7,435.00	7,393.00	7,393.00	60.60	13.23	90.00	2,675.71	1,236.52	799.14	733.70	65.43	12.213	
11,000.00	7,435.00	7,393.00	7,393.00	62.04	13.23	90.00	2,675.71	1,236.52	868.83	804.82	64.00	13.574	
11,100.00	7,435.00	7,393.00	7,393.00	63.48	13.23	90.00	2,675.71	1,236.52	943.98	881.37	62.61	15.078	
11,200.00	7,435.00	7,393.00	7,393.00	64.94	13.23	90.00	2,675.71	1,236.52	1,023.40	962.09	61.30	16.695	
11,300.00	7,435.00	7,393.00	7,393.00	66.40	13.23	90.00	2,675.71	1,236.52	1,106.16	1,046.05	60.11	18.403	
11,400.00	7,435.00	7,393.00	7,393.00	67.87	13.23	90.00	2,675.71	1,236.52	1,191.56	1,132.53	59.03	20.185	
11,500.00	7,435.00	7,393.00	7,393.00	69.34	13.23	90.00	2,675.71	1,236.52	1,279.09	1,221.01	58.07	22.026	
11,600.00	7,435.00	7,393.00	7,393.00	70.83	13.23	90.00	2,675.71	1,236.52	1,368.32	1,311.10	57.22	23.915	
11,700.00	7,435.00	7,393.00	7,393.00	72.31	13.23	90.00	2,675.71	1,236.52	1,458.95	1,402.50	56.46	25.843	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Anderson Trust C 1 - CPR WELL - GYRO												Offset Site Error:	0.00 usft
Survey Program: 100- GyroFlex												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
10,000.00	7,435.00	7,385.33	7,383.69	48.18	8.09	97.16	3,721.08	797.78	1,444.38	1,412.10	32.28	44.750	
10,100.00	7,435.00	7,384.33	7,382.69	49.50	8.09	95.04	3,721.09	797.79	1,345.10	1,312.81	32.29	41.654	
10,120.42	7,435.00	7,384.13	7,382.49	49.77	8.09	94.75	3,721.10	797.79	1,324.91	1,292.61	32.30	41.023	
10,200.00	7,435.00	7,383.34	7,381.71	50.84	8.09	94.52	3,721.11	797.80	1,246.29	1,213.96	32.32	38.556	
10,300.00	7,435.00	7,382.35	7,380.71	52.20	8.08	94.24	3,721.12	797.81	1,147.69	1,115.30	32.39	35.437	
10,400.00	7,435.00	7,381.34	7,379.71	53.57	8.08	93.95	3,721.13	797.83	1,049.35	1,016.85	32.49	32.293	
10,500.00	7,435.00	7,380.32	7,378.69	54.95	8.08	93.66	3,721.14	797.84	951.35	918.68	32.67	29.116	
10,600.00	7,435.00	7,379.29	7,377.66	56.34	8.08	93.36	3,721.15	797.85	853.83	820.86	32.97	25.897	
10,700.00	7,435.00	7,378.25	7,376.61	57.75	8.08	93.06	3,721.16	797.86	756.94	723.49	33.46	22.625	
10,800.00	7,435.00	7,377.19	7,375.56	59.17	8.08	92.75	3,721.18	797.88	660.98	626.72	34.26	19.291	
10,900.00	7,435.00	7,376.12	7,374.49	60.60	8.08	92.45	3,721.19	797.89	566.43	530.79	35.63	15.897	
11,000.00	7,435.00	7,375.04	7,373.40	62.04	8.08	92.13	3,721.20	797.90	474.10	436.10	38.00	12.477	
11,100.00	7,435.00	7,373.94	7,372.30	63.48	8.07	91.82	3,721.21	797.92	385.62	343.44	42.18	9.142	
11,200.00	7,435.00	7,372.83	7,371.19	64.94	8.07	91.50	3,721.23	797.93	304.36	254.81	49.55	6.143	
11,300.00	7,435.00	7,371.70	7,370.07	66.40	8.07	91.17	3,721.24	797.95	237.83	176.47	61.35	3.876	
11,400.00	7,435.00	7,370.56	7,368.93	67.87	8.07	90.85	3,721.25	797.96	201.21	127.26	73.95	2.721	
11,430.39	7,435.00	7,370.21	7,368.58	68.32	8.07	90.74	3,721.26	797.96	198.90	122.88	76.02	2.617	CC, ES, SF
11,500.00	7,435.00	7,369.40	7,367.77	69.34	8.07	90.51	3,721.27	797.97	210.73	135.18	75.55	2.789	
11,600.00	7,435.00	7,368.23	7,366.60	70.83	8.07	90.18	3,721.28	797.99	261.39	194.07	67.32	3.883	
11,700.00	7,435.00	7,367.05	7,365.41	72.31	8.07	89.83	3,721.30	798.00	335.03	276.06	58.96	5.682	
11,800.00	7,435.00	7,365.84	7,364.21	73.81	8.06	89.49	3,721.31	798.02	419.71	366.70	53.01	7.918	
11,900.00	7,435.00	7,364.63	7,362.99	75.31	8.06	89.14	3,721.33	798.04	509.97	460.98	48.98	10.411	
11,978.18	7,435.00	7,363.66	7,362.03	76.25	8.06	88.86	3,721.34	798.05	582.75	535.51	47.24	12.336	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Brown 31-5 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 722-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
2,200.00	2,190.70	2,560.76	2,528.03	7.86	12.78	91.15	-1,109.57	-975.23	1,490.27	1,470.82	19.45	76.615	
2,300.00	2,289.89	2,659.45	2,623.39	8.25	13.64	90.89	-1,112.47	-949.98	1,473.26	1,452.69	20.57	71.610	
2,400.00	2,389.09	2,750.49	2,711.24	8.65	14.46	90.59	-1,116.39	-926.43	1,456.96	1,435.28	21.68	67.195	
2,500.00	2,488.29	2,858.51	2,815.26	9.05	15.46	90.21	-1,121.49	-897.75	1,440.49	1,417.55	22.94	62.801	
2,600.00	2,587.48	2,954.03	2,907.17	9.45	16.34	89.86	-1,125.63	-872.09	1,423.59	1,399.48	24.11	59.039	
2,700.00	2,686.68	3,057.52	3,006.97	9.85	17.28	89.49	-1,129.94	-845.00	1,407.14	1,381.81	25.33	55.558	
2,800.00	2,785.88	3,147.92	3,094.16	10.25	18.10	89.19	-1,133.03	-821.36	1,390.27	1,363.81	26.46	52.547	
2,900.00	2,885.07	3,242.19	3,185.27	10.65	18.94	88.87	-1,136.82	-797.43	1,374.38	1,346.76	27.61	49.773	
3,000.00	2,984.27	3,341.19	3,281.02	11.05	19.83	88.56	-1,140.26	-772.52	1,358.33	1,329.54	28.80	47.172	
3,100.00	3,083.47	3,448.12	3,384.34	11.45	20.80	88.19	-1,144.13	-745.28	1,342.21	1,312.16	30.05	44.671	
3,200.00	3,182.66	3,543.57	3,476.35	11.85	21.69	87.82	-1,147.89	-720.12	1,325.71	1,294.45	31.26	42.407	
3,300.00	3,281.86	3,654.77	3,583.45	12.25	22.74	87.36	-1,152.24	-690.55	1,309.10	1,276.52	32.58	40.177	
3,400.00	3,381.05	3,757.70	3,682.56	12.66	23.71	86.96	-1,155.19	-662.94	1,291.64	1,257.80	33.84	38.167	
3,500.00	3,480.25	3,842.00	3,763.96	13.06	24.48	86.64	-1,157.70	-641.15	1,274.96	1,239.98	34.98	36.448	
3,600.00	3,579.45	3,928.56	3,847.81	13.46	25.24	86.34	-1,160.44	-619.84	1,259.34	1,223.23	36.11	34.878	
3,700.00	3,678.64	4,012.36	3,929.16	13.87	25.96	86.07	-1,163.23	-599.92	1,244.50	1,207.29	37.21	33.445	
3,800.00	3,777.84	4,103.72	4,018.01	14.27	26.73	85.77	-1,166.82	-578.97	1,230.70	1,192.35	38.35	32.088	
3,900.00	3,877.04	4,199.15	4,110.82	14.67	27.54	85.44	-1,170.98	-557.17	1,217.32	1,177.78	39.54	30.788	
4,000.00	3,976.23	4,302.76	4,211.36	15.08	28.45	85.03	-1,176.25	-532.67	1,203.97	1,163.16	40.81	29.498	
4,100.00	4,075.43	4,389.98	4,296.05	15.48	29.20	84.68	-1,180.66	-512.29	1,190.85	1,148.87	41.98	28.367	
4,200.00	4,174.63	4,483.14	4,386.84	15.89	29.97	84.36	-1,185.11	-491.92	1,178.57	1,135.43	43.14	27.318	
4,300.00	4,273.82	4,586.78	4,487.94	16.29	30.81	84.01	-1,189.91	-469.63	1,166.48	1,122.11	44.36	26.293	
4,400.00	4,373.02	4,700.44	4,598.69	16.70	31.75	83.63	-1,194.17	-444.38	1,153.26	1,107.62	45.64	25.267	
4,500.00	4,472.22	4,787.00	4,683.18	17.10	32.45	83.38	-1,196.77	-425.79	1,140.06	1,093.31	46.75	24.388	
4,600.00	4,571.41	4,880.18	4,774.52	17.51	33.14	83.18	-1,199.10	-407.53	1,127.71	1,079.89	47.82	23.581	
4,700.00	4,670.61	4,970.06	4,862.96	17.91	33.78	83.08	-1,200.93	-391.58	1,116.21	1,067.37	48.84	22.854	
4,800.00	4,769.81	5,075.96	4,967.04	18.32	34.54	82.90	-1,203.89	-372.31	1,105.03	1,055.07	49.96	22.119	
4,900.00	4,869.00	5,178.41	5,067.29	18.72	35.33	82.61	-1,207.59	-351.51	1,093.11	1,041.97	51.13	21.377	
5,000.00	4,968.20	5,271.25	5,158.10	19.13	36.05	82.32	-1,211.26	-332.60	1,081.43	1,029.16	52.27	20.691	
5,100.00	5,067.40	5,370.19	5,255.26	19.53	36.78	82.11	-1,214.32	-314.15	1,070.21	1,016.83	53.38	20.049	
5,200.00	5,166.59	5,466.71	5,350.08	19.94	37.48	81.92	-1,217.00	-296.27	1,058.85	1,004.38	54.47	19.440	
5,300.00	5,265.79	5,564.43	5,446.16	20.34	38.18	81.74	-1,219.95	-278.68	1,048.01	992.45	55.56	18.863	
5,400.00	5,364.98	5,667.17	5,547.07	20.75	38.93	81.52	-1,223.13	-259.70	1,036.95	980.27	56.69	18.292	
5,500.00	5,464.18	5,766.77	5,644.90	21.15	39.66	81.30	-1,226.03	-241.20	1,025.70	967.90	57.80	17.745	
5,600.00	5,563.38	5,866.25	5,742.69	21.56	40.37	81.11	-1,228.61	-223.16	1,014.48	955.58	58.90	17.224	
5,700.00	5,662.57	5,968.66	5,843.43	21.97	41.09	80.94	-1,230.85	-204.83	1,003.11	943.12	59.99	16.720	
5,800.00	5,761.77	6,056.37	5,929.91	22.37	41.68	80.86	-1,232.19	-190.30	992.07	931.08	60.98	16.268	
5,900.00	5,860.97	6,141.14	6,013.71	22.78	42.21	80.83	-1,234.10	-177.70	982.60	920.68	61.92	15.868	
6,000.00	5,960.16	6,243.28	6,114.73	23.18	42.85	80.80	-1,236.51	-162.83	973.43	910.50	62.93	15.469	
6,100.00	6,059.36	6,343.38	6,213.73	23.59	43.48	80.76	-1,239.17	-148.28	964.52	900.58	63.94	15.085	
6,200.00	6,158.56	6,450.87	6,319.66	24.00	44.21	80.58	-1,242.83	-130.38	954.90	889.84	65.05	14.679	
6,300.00	6,257.75	6,552.32	6,419.62	24.40	44.90	80.42	-1,245.68	-113.28	944.67	878.54	66.13	14.285	
6,400.00	6,356.95	6,649.05	6,515.08	24.81	45.54	80.32	-1,247.93	-97.79	934.60	867.44	67.16	13.915	
6,500.00	6,456.15	6,746.65	6,611.49	25.21	46.17	80.25	-1,250.09	-82.76	924.82	856.64	68.18	13.565	
6,600.00	6,555.34	6,843.39	6,707.15	25.62	46.78	80.23	-1,251.98	-68.50	915.23	846.07	69.16	13.233	
6,702.76	6,657.28	6,934.42	6,797.32	26.04	47.32	80.26	-1,253.69	-56.14	906.05	835.94	70.11	12.924	
6,750.00	6,704.24	6,977.02	6,839.63	26.22	47.55	110.16	-1,254.37	-51.25	903.59	833.07	70.51	12.814	
6,768.55	6,722.71	6,993.89	6,856.41	26.29	47.64	126.36	-1,254.57	-49.49	903.38	832.70	70.67	12.783 CC, ES	
6,800.00	6,754.03	7,022.21	6,884.60	26.40	47.78	152.31	-1,254.85	-46.74	903.99	833.06	70.93	12.745	
6,850.00	6,803.66	7,066.92	6,929.13	26.56	47.99	177.55	-1,255.15	-42.90	907.52	836.19	71.33	12.723 SF	
6,900.00	6,852.89	7,111.64	6,973.74	26.70	48.18	-170.39	-1,255.31	-39.67	914.16	842.44	71.72	12.747	
6,950.00	6,901.49	7,156.58	7,018.59	26.83	48.36	-163.84	-1,255.34	-36.93	923.84	851.75	72.09	12.815	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Brown 31-5 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 722-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	
7,000.00	6,949.20	7,201.42	7,063.38	26.95	48.53	-159.74	-1,255.25	-34.68	936.52	864.06	72.46	12.925	
7,050.00	6,995.81	7,248.50	7,110.41	27.05	48.68	-156.90	-1,254.93	-32.71	952.03	879.22	72.81	13.076	
7,100.00	7,041.08	7,294.34	7,156.22	27.15	48.81	-154.74	-1,254.36	-31.13	970.25	897.11	73.14	13.265	
7,150.00	7,084.79	7,338.37	7,200.24	27.23	48.89	-152.94	-1,253.57	-29.97	991.15	917.73	73.42	13.500	
7,200.00	7,126.74	7,380.91	7,242.75	27.31	48.97	-151.34	-1,252.58	-29.18	1,014.67	940.98	73.69	13.770	
7,250.00	7,166.71	7,417.50	7,279.33	27.37	49.00	-149.74	-1,251.67	-28.72	1,040.81	966.90	73.91	14.082	
7,300.00	7,204.52	7,451.96	7,313.78	27.42	49.03	-148.10	-1,250.88	-28.45	1,069.55	995.43	74.12	14.430	
7,350.00	7,239.97	7,485.03	7,346.84	27.47	49.06	-146.37	-1,250.18	-28.31	1,100.78	1,026.46	74.32	14.811	
7,400.00	7,272.89	7,517.62	7,379.42	27.51	49.08	-144.51	-1,249.52	-28.24	1,134.29	1,059.78	74.51	15.223	
7,450.00	7,303.14	7,547.60	7,409.40	27.54	49.10	-142.39	-1,248.92	-28.20	1,169.92	1,095.24	74.69	15.665	
7,500.00	7,330.54	7,574.90	7,436.69	27.57	49.12	-139.91	-1,248.40	-28.19	1,207.53	1,132.68	74.85	16.134	
7,550.00	7,354.98	7,599.53	7,461.32	27.60	49.14	-136.98	-1,247.93	-28.19	1,246.94	1,171.95	74.99	16.627	
7,600.00	7,376.34	7,621.15	7,482.93	27.63	49.15	-133.43	-1,247.53	-28.20	1,287.98	1,212.86	75.13	17.144	
7,650.00	7,394.51	7,639.65	7,501.43	27.66	49.16	-129.11	-1,247.20	-28.21	1,330.46	1,255.22	75.24	17.682	
7,700.00	7,409.39	7,654.95	7,516.73	27.71	49.17	-123.84	-1,246.93	-28.22	1,374.18	1,298.84	75.34	18.239	
7,750.00	7,420.93	7,667.11	7,528.89	27.77	49.18	-117.43	-1,246.71	-28.23	1,418.93	1,343.50	75.43	18.811	
7,800.00	7,429.06	7,676.37	7,538.14	27.86	49.19	-109.79	-1,246.55	-28.23	1,464.48	1,388.97	75.51	19.395	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Brown 41-5 - CPR WELL - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 41-Geolink MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	54.47	202.57	283.70	349.23					
100.00	100.00	76.51	76.51	0.14	0.11	54.52	202.53	284.19	348.98	348.73	0.25	1,385.634		
200.00	200.00	175.92	175.92	0.50	0.28	54.62	202.51	285.19	349.79	349.01	0.78	448.120		
300.00	300.00	277.11	277.10	0.85	0.46	54.76	202.26	286.32	350.56	349.25	1.31	266.767		
400.00	400.00	386.44	386.41	1.21	0.65	55.05	200.39	286.71	349.88	348.01	1.87	186.841		
500.00	500.00	494.60	494.38	1.57	0.86	55.84	194.34	286.43	346.48	344.03	2.45	141.497		
600.00	600.00	602.54	601.72	1.93	1.12	57.46	182.99	286.80	340.97	337.91	3.06	111.444		
700.00	700.00	707.55	705.40	2.29	1.43	59.95	166.47	287.70	333.44	329.73	3.71	89.804		
800.00	800.00	801.62	797.94	2.65	1.73	62.66	149.66	289.48	326.43	322.08	4.35	75.014		
900.00	899.98	897.64	892.22	2.99	2.07	-72.00	131.85	293.07	321.10	316.07	5.03	63.871		
1,000.00	999.84	997.20	989.68	3.33	2.46	-69.37	112.05	297.62	315.66	309.90	5.76	54.837		
1,100.00	1,099.45	1,094.60	1,084.04	3.67	2.91	-66.50	88.66	303.51	309.60	303.05	6.56	47.209		
1,163.41	1,162.43	1,152.40	1,139.58	3.89	3.19	-64.68	73.32	308.09	306.12	299.05	7.07	43.293		
1,200.00	1,198.73	1,185.46	1,171.30	4.02	3.36	-63.63	64.53	311.17	304.59	297.22	7.37	41.343		
1,300.00	1,297.93	1,279.00	1,260.70	4.39	3.85	-60.41	39.22	321.91	303.00	294.78	8.22	36.864		
1,303.93	1,301.82	1,279.00	1,260.70	4.40	3.85	-60.41	39.22	321.91	302.99	294.76	8.23	36.806 CC, ES		
1,400.00	1,397.13	1,366.00	1,343.54	4.76	4.30	-57.34	15.82	334.48	305.36	296.35	9.01	33.883		
1,500.00	1,496.32	1,453.00	1,426.19	5.13	4.78	-54.41	-6.78	349.53	311.82	302.05	9.77	31.903		
1,600.00	1,595.52	1,546.93	1,514.97	5.51	5.32	-51.29	-31.47	367.78	321.45	310.90	10.56	30.455		
1,700.00	1,694.71	1,639.44	1,602.23	5.90	5.85	-48.45	-55.40	387.01	333.42	322.15	11.27	29.582		
1,800.00	1,793.91	1,729.62	1,686.90	6.29	6.40	-45.86	-78.78	407.44	348.14	336.19	11.95	29.142		
1,900.00	1,893.11	1,823.02	1,773.69	6.68	7.02	-43.10	-104.77	430.12	365.48	352.85	12.63	28.945		
2,000.00	1,992.30	1,922.64	1,865.81	7.07	7.69	-40.08	-134.66	453.43	383.16	369.85	13.31	28.779		
2,100.00	2,091.50	2,018.27	1,954.61	7.46	8.30	-37.71	-161.55	476.57	402.14	388.22	13.91	28.910		
2,200.00	2,190.70	2,115.04	2,045.04	7.86	8.92	-35.80	-186.79	500.03	421.27	406.76	14.51	29.028		
2,300.00	2,289.89	2,209.89	2,133.26	8.25	9.54	-33.96	-212.58	523.44	441.57	426.51	15.06	29.313		
2,400.00	2,389.09	2,308.68	2,225.49	8.65	10.17	-32.43	-237.81	548.26	462.22	446.58	15.63	29.564		
2,500.00	2,488.29	2,405.16	2,315.67	9.05	10.80	-31.08	-262.23	572.35	482.92	466.73	16.19	29.828		
2,600.00	2,587.48	2,520.04	2,423.37	9.45	11.51	-29.46	-292.03	598.96	502.36	485.48	16.88	29.767		
2,700.00	2,686.68	2,622.35	2,519.97	9.85	12.13	-28.06	-318.45	619.85	519.37	501.92	17.45	29.770		
2,800.00	2,785.88	2,707.73	2,600.31	10.25	12.68	-26.93	-340.99	637.93	537.63	519.74	17.89	30.050		
2,900.00	2,885.07	2,789.45	2,676.01	10.65	13.27	-25.65	-365.58	656.44	559.01	540.73	18.28	30.582		
3,000.00	2,984.27	2,878.10	2,757.37	11.05	13.92	-24.26	-393.71	677.59	582.63	563.94	18.70	31.162		
3,100.00	3,083.47	2,978.22	2,849.16	11.45	14.64	-22.87	-425.16	702.32	607.24	588.03	19.21	31.612		
3,200.00	3,182.66	3,092.10	2,954.49	11.85	15.42	-21.45	-459.67	728.40	629.95	610.12	19.83	31.762		
3,300.00	3,281.86	3,189.92	3,045.47	12.25	16.08	-20.30	-488.87	749.36	651.36	631.05	20.31	32.063		
3,400.00	3,381.05	3,276.62	3,125.72	12.66	16.70	-19.26	-515.81	768.07	673.80	653.09	20.72	32.523		
3,500.00	3,480.25	3,364.65	3,206.41	13.06	17.35	-18.10	-545.41	787.08	697.89	676.78	21.11	33.065		
3,600.00	3,579.45	3,487.29	3,319.56	13.46	18.18	-16.69	-585.05	812.82	721.04	699.30	21.74	33.167		
3,700.00	3,678.64	3,619.08	3,443.42	13.87	18.97	-15.61	-621.77	838.85	740.97	718.54	22.43	33.031		
3,800.00	3,777.84	3,815.09	3,632.99	14.27	19.81	-14.42	-663.74	864.42	751.35	728.02	23.34	32.198		
3,900.00	3,877.04	3,909.28	3,725.45	14.67	20.16	-13.99	-679.56	873.06	756.05	732.23	23.82	31.746		
4,000.00	3,976.23	4,010.98	3,825.32	15.08	20.53	-13.66	-695.53	883.62	761.18	736.87	24.31	31.311		
4,100.00	4,075.43	4,116.44	3,929.25	15.48	20.88	-13.55	-708.99	895.44	765.33	740.49	24.84	30.809		
4,200.00	4,174.63	4,203.47	4,014.95	15.89	21.19	-13.49	-720.00	905.78	770.03	744.70	25.33	30.397		
4,300.00	4,273.82	4,285.86	4,095.68	16.29	21.53	-13.33	-732.53	916.40	777.00	751.21	25.79	30.130		
4,400.00	4,373.02	4,367.42	4,175.23	16.70	21.89	-13.13	-746.42	927.89	786.06	759.83	26.23	29.971		
4,500.00	4,472.22	4,454.65	4,259.70	17.10	22.31	-12.82	-763.63	941.16	797.58	770.91	26.66	29.913		
4,600.00	4,571.41	4,570.17	4,371.88	17.51	22.81	-12.57	-784.37	959.37	808.62	781.37	27.25	29.676		
4,700.00	4,670.61	4,654.44	4,453.84	17.91	23.21	-12.37	-799.35	971.95	818.93	791.24	27.70	29.567		
4,800.00	4,769.81	4,729.85	4,526.53	18.32	23.61	-12.08	-815.37	984.02	832.13	804.07	28.06	29.652		
4,900.00	4,869.00	4,803.01	4,596.50	18.72	24.04	-11.79	-832.22	997.19	848.15	819.75	28.39	29.871		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Brown 41-5 - CPR WELL - SURVEYS													Offset Site Error: 0.00 usft	
Survey Program: 41-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		
5,000.00	4,968.20	4,877.19	4,666.64	19.13	24.50	-11.46	-851.21	1,012.03	867.36	838.64	28.71	30.208		
5,100.00	5,067.40	4,981.02	4,764.14	19.53	25.15	-10.82	-880.75	1,032.10	887.96	858.73	29.23	30.377		
5,200.00	5,166.59	5,097.66	4,874.33	19.94	25.85	-10.04	-913.67	1,051.49	906.22	876.40	29.82	30.391		
5,300.00	5,265.79	5,210.94	4,981.74	20.34	26.49	-9.27	-945.29	1,068.69	923.35	893.00	30.36	30.415		
5,400.00	5,364.98	5,294.00	5,060.79	20.75	26.97	-8.80	-967.22	1,081.74	940.08	909.36	30.72	30.600		
5,500.00	5,464.18	5,381.00	5,143.19	21.15	27.50	-8.35	-990.67	1,096.84	958.48	927.36	31.12	30.802		
5,600.00	5,563.38	5,525.46	5,280.98	21.56	28.27	-7.72	-1,026.93	1,120.53	974.77	942.90	31.87	30.586		
5,700.00	5,662.57	5,669.74	5,420.25	21.97	28.94	-7.19	-1,058.63	1,140.80	987.51	954.93	32.57	30.317		
5,800.00	5,761.77	5,794.93	5,542.44	22.37	29.45	-6.79	-1,082.09	1,154.62	995.50	962.33	33.16	30.017		
5,900.00	5,860.97	5,916.75	5,661.57	22.78	29.92	-6.29	-1,105.12	1,165.36	1,002.15	968.43	33.72	29.716		
6,000.00	5,960.16	6,029.94	5,772.50	23.18	30.33	-5.64	-1,126.95	1,170.69	1,005.89	971.66	34.23	29.386		
6,100.00	6,059.36	6,143.68	5,883.71	23.59	30.74	-4.91	-1,150.32	1,175.42	1,010.46	975.76	34.70	29.118		
6,200.00	6,158.56	6,248.66	5,987.17	24.00	31.07	-4.46	-1,167.28	1,180.62	1,012.49	977.32	35.17	28.787		
6,300.00	6,257.75	6,404.32	6,141.62	24.40	31.44	-4.21	-1,184.07	1,189.78	1,011.28	975.55	35.74	28.298		
6,400.00	6,356.95	6,494.22	6,231.07	24.81	31.65	-4.11	-1,191.81	1,194.27	1,008.23	971.99	36.24	27.821		
6,500.00	6,456.15	6,575.65	6,311.97	25.21	31.86	-4.09	-1,198.93	1,200.22	1,006.91	970.17	36.74	27.404		
6,600.00	6,555.34	6,702.84	6,438.32	25.62	32.14	-4.18	-1,208.54	1,211.00	1,005.76	968.47	37.29	26.968		
6,702.76	6,657.28	6,807.71	6,542.71	26.04	32.35	-4.36	-1,213.68	1,219.68	1,002.42	964.56	37.86	26.475		
6,738.34	6,692.64	6,842.81	6,577.65	26.18	32.43	16.48	-1,215.66	1,222.32	1,001.84	963.79	38.05	26.332		
6,750.00	6,704.24	6,854.31	6,589.10	26.22	32.45	25.69	-1,216.37	1,223.14	1,001.90	963.80	38.10	26.296		
6,800.00	6,754.03	6,907.60	6,642.16	26.40	32.56	68.00	-1,219.83	1,226.66	1,003.53	965.22	38.30	26.199		
6,850.00	6,803.66	6,962.86	6,697.20	26.56	32.67	93.38	-1,223.44	1,229.95	1,007.24	968.79	38.46	26.192 SF		
6,900.00	6,852.89	7,024.12	6,758.27	26.70	32.78	105.62	-1,227.09	1,233.13	1,012.84	974.28	38.56	26.265		
6,950.00	6,901.49	7,079.41	6,813.43	26.83	32.87	112.27	-1,229.93	1,235.66	1,020.34	981.70	38.63	26.410		
7,000.00	6,949.20	7,131.79	6,865.70	26.95	32.96	116.36	-1,232.33	1,237.94	1,030.01	991.33	38.68	26.630		
7,050.00	6,995.81	7,181.91	6,915.74	27.05	33.03	119.11	-1,234.41	1,240.01	1,041.96	1,003.25	38.70	26.921		
7,100.00	7,041.08	7,230.24	6,964.00	27.15	33.10	121.03	-1,236.28	1,241.90	1,056.25	1,017.53	38.72	27.280		
7,150.00	7,084.79	7,276.22	7,009.91	27.23	33.17	122.39	-1,237.92	1,243.62	1,072.97	1,034.24	38.73	27.702		
7,200.00	7,126.74	7,320.25	7,053.89	27.31	33.23	123.32	-1,239.40	1,245.19	1,092.14	1,053.39	38.75	28.183		
7,250.00	7,166.71	7,362.07	7,095.67	27.37	33.29	123.88	-1,240.74	1,246.60	1,113.78	1,074.99	38.79	28.716		
7,300.00	7,204.52	7,401.90	7,135.46	27.42	33.34	124.12	-1,241.96	1,247.86	1,137.88	1,099.04	38.84	29.297		
7,350.00	7,239.97	7,439.96	7,173.48	27.47	33.39	124.04	-1,243.05	1,248.99	1,164.38	1,125.47	38.92	29.919		
7,400.00	7,272.89	7,475.33	7,208.83	27.51	33.43	123.62	-1,243.98	1,249.97	1,193.23	1,154.21	39.02	30.578		
7,450.00	7,303.14	7,506.31	7,239.78	27.54	33.47	122.74	-1,244.74	1,250.79	1,224.37	1,185.21	39.16	31.269		
7,500.00	7,330.54	7,534.25	7,267.71	27.57	33.50	121.43	-1,245.40	1,251.51	1,257.69	1,218.38	39.32	31.989		
7,550.00	7,354.98	7,559.09	7,292.54	27.60	33.53	119.60	-1,245.96	1,252.13	1,293.08	1,253.58	39.50	32.736		
7,600.00	7,376.34	7,580.40	7,313.83	27.63	33.56	117.18	-1,246.43	1,252.65	1,330.37	1,290.67	39.70	33.507		
7,650.00	7,394.51	7,598.26	7,331.69	27.66	33.58	114.07	-1,246.82	1,253.06	1,369.39	1,329.46	39.92	34.300		
7,700.00	7,409.39	7,612.68	7,346.10	27.71	33.59	110.16	-1,247.14	1,253.38	1,409.92	1,369.77	40.15	35.113		
7,750.00	7,420.93	7,623.58	7,357.00	27.77	33.61	105.35	-1,247.39	1,253.62	1,451.77	1,411.38	40.39	35.943		
7,800.00	7,429.06	7,630.93	7,364.34	27.86	33.61	99.57	-1,247.55	1,253.77	1,494.68	1,454.05	40.63	36.788		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Canino 1-X - HUGHES CW - NO SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 5034-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	83.30	151.99	1,293.72	1,303.51				
100.00	100.00	52.00	52.00	0.14	0.09	83.30	151.99	1,293.72	1,302.62	1,302.39	0.23	5,629.012	
200.00	200.00	152.00	152.00	0.50	0.27	83.30	151.99	1,293.72	1,302.62	1,301.85	0.77	1,693.663	
300.00	300.00	252.00	252.00	0.85	0.45	83.30	151.99	1,293.72	1,302.62	1,301.32	1.31	996.789	
400.00	400.00	352.00	352.00	1.21	0.63	83.30	151.99	1,293.72	1,302.62	1,300.78	1.84	706.211	
500.00	500.00	452.00	452.00	1.57	0.81	83.30	151.99	1,293.72	1,302.62	1,300.24	2.38	546.809	
600.00	600.00	552.00	552.00	1.93	0.99	83.30	151.99	1,293.72	1,302.62	1,299.70	2.92	446.114	
700.00	700.00	652.00	652.00	2.29	1.17	83.30	151.99	1,293.72	1,302.62	1,299.16	3.46	376.738	
800.00	800.00	752.00	752.00	2.65	1.35	83.30	151.99	1,293.72	1,302.62	1,298.63	4.00	326.036	
900.00	899.98	851.98	851.98	2.99	1.53	-54.17	151.99	1,293.72	1,301.60	1,297.08	4.52	288.113	
1,000.00	999.84	951.84	951.84	3.33	1.71	-54.41	151.99	1,293.72	1,298.54	1,293.51	5.03	258.137	
1,100.00	1,099.45	1,051.45	1,051.45	3.67	1.88	-54.81	151.99	1,293.72	1,293.48	1,287.93	5.55	233.040	
1,163.41	1,162.43	1,114.43	1,114.43	3.89	2.00	-55.14	151.99	1,293.72	1,289.26	1,283.37	5.88	219.080	
1,200.00	1,198.73	1,150.73	1,150.73	4.02	2.06	-55.31	151.99	1,293.72	1,286.60	1,280.52	6.08	211.639	
1,300.00	1,297.93	1,249.93	1,249.93	4.39	2.24	-55.77	151.99	1,293.72	1,279.41	1,272.79	6.61	193.436	
1,400.00	1,397.13	1,349.13	1,349.13	4.76	2.42	-56.24	151.99	1,293.72	1,272.29	1,265.14	7.16	177.802	
1,500.00	1,496.32	1,448.32	1,448.32	5.13	2.60	-56.71	151.99	1,293.72	1,265.27	1,257.56	7.70	164.265	
1,600.00	1,595.52	1,547.52	1,547.52	5.51	2.77	-57.19	151.99	1,293.72	1,258.33	1,250.07	8.25	152.452	
1,700.00	1,694.71	1,646.71	1,646.71	5.90	2.95	-57.68	151.99	1,293.72	1,251.48	1,242.67	8.81	142.069	
1,800.00	1,793.91	1,745.91	1,745.91	6.29	3.13	-58.17	151.99	1,293.72	1,244.72	1,235.35	9.37	132.882	
1,900.00	1,893.11	1,845.11	1,845.11	6.68	3.31	-58.66	151.99	1,293.72	1,238.06	1,228.13	9.93	124.704	
2,000.00	1,992.30	1,944.30	1,944.30	7.07	3.49	-59.16	151.99	1,293.72	1,231.48	1,220.99	10.49	117.383	
2,100.00	2,091.50	2,043.50	2,043.50	7.46	3.66	-59.67	151.99	1,293.72	1,225.01	1,213.95	11.06	110.795	
2,200.00	2,190.70	2,142.70	2,142.70	7.86	3.84	-60.18	151.99	1,293.72	1,218.63	1,207.01	11.62	104.840	
2,300.00	2,289.89	2,241.89	2,241.89	8.25	4.02	-60.69	151.99	1,293.72	1,212.35	1,200.16	12.19	99.434	
2,400.00	2,389.09	2,341.09	2,341.09	8.65	4.20	-61.21	151.99	1,293.72	1,206.17	1,193.40	12.76	94.506	
2,500.00	2,488.29	2,440.29	2,440.29	9.05	4.37	-61.74	151.99	1,293.72	1,200.09	1,186.75	13.33	89.998	
2,600.00	2,587.48	2,539.48	2,539.48	9.45	4.55	-62.27	151.99	1,293.72	1,194.11	1,180.20	13.91	85.860	
2,700.00	2,686.68	2,638.68	2,638.68	9.85	4.73	-62.81	151.99	1,293.72	1,188.24	1,173.76	14.48	82.051	
2,800.00	2,785.88	2,737.88	2,737.88	10.25	4.91	-63.35	151.99	1,293.72	1,182.48	1,167.42	15.06	78.533	
2,900.00	2,885.07	2,837.07	2,837.07	10.65	5.09	-63.89	151.99	1,293.72	1,176.82	1,161.18	15.63	75.275	
3,000.00	2,984.27	2,936.27	2,936.27	11.05	5.26	-64.45	151.99	1,293.72	1,171.27	1,155.06	16.21	72.252	
3,100.00	3,083.47	3,035.47	3,035.47	11.45	5.44	-65.00	151.99	1,293.72	1,165.83	1,149.04	16.79	69.440	
3,200.00	3,182.66	3,134.66	3,134.66	11.85	5.62	-65.57	151.99	1,293.72	1,160.51	1,143.14	17.37	66.818	
3,300.00	3,281.86	3,233.86	3,233.86	12.25	5.80	-66.13	151.99	1,293.72	1,155.30	1,137.35	17.95	64.369	
3,400.00	3,381.05	3,333.05	3,333.05	12.66	5.97	-66.71	151.99	1,293.72	1,150.20	1,131.67	18.53	62.076	
3,500.00	3,480.25	3,432.25	3,432.25	13.06	6.15	-67.28	151.99	1,293.72	1,145.22	1,126.11	19.11	59.927	
3,600.00	3,579.45	3,531.45	3,531.45	13.46	6.33	-67.87	151.99	1,293.72	1,140.36	1,120.67	19.69	57.909	
3,700.00	3,678.64	3,630.64	3,630.64	13.87	6.51	-68.45	151.99	1,293.72	1,135.62	1,115.35	20.28	56.011	
3,800.00	3,777.84	3,729.84	3,729.84	14.27	6.69	-69.05	151.99	1,293.72	1,131.01	1,110.15	20.86	54.223	
3,900.00	3,877.04	3,829.04	3,829.04	14.67	6.86	-69.64	151.99	1,293.72	1,126.51	1,105.07	21.44	52.537	
4,000.00	3,976.23	3,928.23	3,928.23	15.08	7.04	-70.24	151.99	1,293.72	1,122.14	1,100.11	22.03	50.944	
4,100.00	4,075.43	4,027.43	4,027.43	15.48	7.22	-70.85	151.99	1,293.72	1,117.90	1,095.29	22.61	49.439	
4,200.00	4,174.63	4,126.63	4,126.63	15.89	7.40	-71.46	151.99	1,293.72	1,113.78	1,090.58	23.20	48.014	
4,300.00	4,273.82	4,225.82	4,225.82	16.29	7.57	-72.07	151.99	1,293.72	1,109.79	1,086.01	23.78	46.663	
4,400.00	4,373.02	4,325.02	4,325.02	16.70	7.75	-72.69	151.99	1,293.72	1,105.94	1,081.57	24.37	45.383	
4,500.00	4,472.22	4,424.22	4,424.22	17.10	7.93	-73.32	151.99	1,293.72	1,102.21	1,077.26	24.96	44.167	
4,600.00	4,571.41	4,523.41	4,523.41	17.51	8.11	-73.94	151.99	1,293.72	1,098.62	1,073.08	25.54	43.011	
4,700.00	4,670.61	4,622.61	4,622.61	17.91	8.29	-74.58	151.99	1,293.72	1,095.16	1,069.03	26.13	41.913	
4,800.00	4,769.81	4,721.81	4,721.81	18.32	8.46	-75.21	151.99	1,293.72	1,091.84	1,065.12	26.72	40.867	
4,900.00	4,869.00	4,821.00	4,821.00	18.72	8.64	-75.85	151.99	1,293.72	1,088.65	1,061.35	27.30	39.871	
5,000.00	4,968.20	4,920.20	4,920.20	19.13	8.82	-76.49	151.99	1,293.72	1,085.61	1,057.71	27.89	38.921	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Canino 1-X - HUGHES CW - NO SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 5034-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.00	5,067.40	5,019.40	5,019.40	19.53	9.00	-77.14	151.99	1,293.72	1,082.70	1,054.22	28.48	38.016		
5,145.22	5,112.25	5,034.00	5,034.00	19.71	9.02	-77.23	151.99	1,293.72	1,081.85	1,053.16	28.69	37.705 CC, ES		
5,200.00	5,166.59	5,034.00	5,034.00	19.94	9.02	-77.23	151.99	1,293.72	1,083.24	1,054.38	28.86	37.530 SF		
5,300.00	5,265.79	5,034.00	5,034.00	20.34	9.02	-77.23	151.99	1,293.72	1,092.87	1,063.88	28.99	37.698		
5,400.00	5,364.98	5,034.00	5,034.00	20.75	9.02	-77.23	151.99	1,293.72	1,111.45	1,082.56	28.89	38.473		
5,500.00	5,464.18	5,034.00	5,034.00	21.15	9.02	-77.23	151.99	1,293.72	1,138.54	1,109.96	28.58	39.831		
5,600.00	5,563.38	5,034.00	5,034.00	21.56	9.02	-77.23	151.99	1,293.72	1,173.56	1,145.45	28.11	41.747		
5,700.00	5,662.57	5,034.00	5,034.00	21.97	9.02	-77.23	151.99	1,293.72	1,215.81	1,188.30	27.51	44.198		
5,800.00	5,761.77	5,034.00	5,034.00	22.37	9.02	-77.23	151.99	1,293.72	1,264.58	1,237.76	26.82	47.158		
5,900.00	5,860.97	5,034.00	5,034.00	22.78	9.02	-77.23	151.99	1,293.72	1,319.13	1,293.06	26.07	50.603		
6,000.00	5,960.16	5,034.00	5,034.00	23.18	9.02	-77.23	151.99	1,293.72	1,378.79	1,353.50	25.29	54.510		
6,100.00	6,059.36	5,034.00	5,034.00	23.59	9.02	-77.23	151.99	1,293.72	1,442.92	1,418.40	24.52	58.854		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4A-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-89.72	0.78	-159.76	159.76				
100.00	100.00	100.00	100.00	0.14	0.14	-89.72	0.78	-159.76	159.76	159.48	0.28	578.792	
200.00	200.00	200.00	200.00	0.50	0.50	-89.72	0.78	-159.76	159.76	158.77	0.99	160.892 CC, ES	
300.00	300.00	297.10	297.08	0.85	0.84	-89.22	2.18	-160.62	160.66	158.95	1.71	93.932	
400.00	400.00	393.97	393.82	1.21	1.20	-87.76	6.37	-163.20	163.45	161.01	2.44	67.018	
500.00	500.00	490.40	489.90	1.57	1.55	-85.46	13.30	-167.48	168.31	165.13	3.18	52.992	
600.00	600.00	586.72	585.55	1.93	1.91	-82.47	22.93	-173.42	175.53	171.61	3.92	44.803	
700.00	700.00	685.88	683.87	2.29	2.29	-79.35	33.87	-180.17	184.03	179.39	4.64	39.675	
800.00	800.00	785.03	782.19	2.65	2.68	-76.52	44.80	-186.92	193.03	187.67	5.36	36.019	
900.00	899.98	883.95	880.27	2.99	3.07	-74.80	55.71	-193.65	203.95	197.88	6.07	33.616	
1,000.00	999.84	982.30	977.80	3.33	3.46	-71.62	66.55	-200.34	218.35	211.58	6.76	32.283	
1,100.00	1,099.45	1,079.97	1,074.64	3.67	3.85	-68.43	77.32	-206.98	236.36	228.90	7.46	31.684	
1,163.41	1,162.43	1,141.48	1,135.64	3.89	4.09	-65.14	84.10	-211.17	249.69	241.78	7.90	31.596	
1,200.00	1,198.73	1,176.89	1,170.74	4.02	4.23	-62.14	88.01	-213.58	257.85	249.69	8.16	31.612	
1,300.00	1,297.93	1,273.64	1,266.68	4.39	4.62	-59.59	98.68	-220.16	280.49	271.64	8.84	31.713	
1,400.00	1,397.13	1,370.39	1,362.62	4.76	5.00	-56.67	109.34	-226.74	303.55	294.01	9.54	31.833	
1,500.00	1,496.32	1,467.14	1,458.55	5.13	5.39	-53.45	120.01	-233.32	326.93	316.70	10.23	31.961	
1,600.00	1,595.52	1,563.89	1,554.49	5.51	5.78	-50.00	130.68	-239.91	350.59	339.66	10.92	32.091	
1,700.00	1,694.71	1,660.64	1,650.42	5.90	6.17	-46.36	141.35	-246.49	374.45	362.83	11.62	32.218	
1,800.00	1,793.91	1,757.39	1,746.36	6.29	6.55	-42.55	152.02	-253.07	398.49	386.17	12.32	32.341	
1,900.00	1,893.11	1,854.14	1,842.29	6.68	6.94	-38.61	162.69	-259.65	422.67	409.65	13.02	32.459	
2,000.00	1,992.30	1,950.90	1,938.23	7.07	7.33	-34.55	173.35	-266.23	446.98	433.26	13.72	32.570	
2,100.00	2,091.50	2,047.65	2,034.16	7.46	7.72	-30.40	184.02	-272.82	471.39	456.96	14.43	32.674	
2,200.00	2,190.70	2,144.40	2,130.10	7.86	8.10	-26.16	194.69	-279.40	495.89	480.76	15.13	32.773	
2,300.00	2,289.89	2,241.15	2,226.03	8.25	8.49	-21.85	205.36	-285.98	520.46	504.62	15.84	32.865	
2,400.00	2,389.09	2,337.90	2,321.97	8.65	8.88	-17.48	216.03	-292.56	545.10	528.55	16.54	32.952	
2,500.00	2,488.29	2,434.65	2,417.90	9.05	9.27	-13.06	226.70	-299.15	569.79	552.54	17.25	33.034	
2,600.00	2,587.48	2,531.40	2,513.84	9.45	9.65	-8.59	237.36	-305.73	594.53	576.58	17.96	33.111	
2,700.00	2,686.68	2,628.15	2,609.78	9.85	10.04	-4.07	248.03	-312.31	619.32	600.66	18.66	33.183	
2,800.00	2,785.88	2,724.90	2,705.71	10.25	10.43	0.52	258.70	-318.89	644.15	624.77	19.37	33.251	
2,900.00	2,885.07	2,821.65	2,801.65	10.65	10.82	5.93	269.37	-325.48	669.01	648.93	20.08	33.315	
3,000.00	2,984.27	2,918.40	2,897.58	11.05	11.21	11.32	280.04	-332.06	693.90	673.11	20.79	33.376	
3,100.00	3,083.47	3,015.16	2,993.52	11.45	11.60	17.68	290.70	-338.64	718.81	697.31	21.50	33.433	
3,200.00	3,182.66	3,111.91	3,089.45	11.85	11.98	24.01	301.37	-345.22	743.76	721.55	22.21	33.487	
3,300.00	3,281.86	3,208.66	3,185.39	12.25	12.37	30.33	312.04	-351.81	768.72	745.80	22.92	33.538	
3,400.00	3,381.05	3,305.41	3,281.32	12.66	12.76	36.62	322.71	-358.39	793.71	770.08	23.63	33.586	
3,500.00	3,480.25	3,402.16	3,377.26	13.06	13.15	42.89	333.38	-364.97	818.71	794.37	24.34	33.632	
3,600.00	3,579.45	3,498.91	3,473.19	13.46	13.54	49.15	344.05	-371.55	843.73	818.68	25.05	33.676	
3,700.00	3,678.64	3,595.66	3,569.13	13.87	13.93	55.40	354.71	-378.13	868.77	843.00	25.77	33.717	
3,800.00	3,777.84	3,692.41	3,665.07	14.27	14.31	61.63	365.38	-384.72	893.82	867.34	26.48	33.756	
3,900.00	3,877.04	3,789.16	3,761.00	14.67	14.70	67.85	376.05	-391.30	918.88	891.69	27.19	33.794	
4,000.00	3,976.23	3,885.91	3,856.94	15.08	15.09	74.05	386.72	-397.88	943.95	916.05	27.90	33.830	
4,100.00	4,075.43	3,982.66	3,952.87	15.48	15.48	80.25	397.39	-404.46	969.04	940.42	28.62	33.864	
4,200.00	4,174.63	4,079.42	4,048.81	15.89	15.87	86.43	408.06	-411.05	994.13	964.80	29.33	33.896	
4,300.00	4,273.82	4,176.17	4,144.74	16.29	16.26	92.61	418.72	-417.63	1,019.24	989.19	30.04	33.928	
4,400.00	4,373.02	4,272.92	4,240.68	16.70	16.65	98.78	429.39	-424.21	1,044.35	1,013.59	30.75	33.957	
4,500.00	4,472.22	4,369.67	4,336.61	17.10	17.03	104.94	440.06	-430.79	1,069.47	1,038.00	31.47	33.986	
4,600.00	4,571.41	4,466.42	4,432.55	17.51	17.42	111.09	450.73	-437.38	1,094.60	1,062.42	32.18	34.013	
4,700.00	4,670.61	4,563.17	4,528.48	17.91	17.81	117.24	461.40	-443.96	1,119.73	1,086.84	32.90	34.039	
4,800.00	4,769.81	4,659.92	4,624.42	18.32	18.20	123.38	472.07	-450.54	1,144.88	1,111.27	33.61	34.065	
4,900.00	4,869.00	4,756.67	4,720.35	18.72	18.59	129.51	482.73	-457.12	1,170.02	1,135.70	34.32	34.089	
5,000.00	4,968.20	4,853.42	4,816.29	19.13	18.98	135.64	493.40	-463.71	1,195.18	1,160.14	35.04	34.112	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4A-32H-O268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.00	5,067.40	4,950.17	4,912.23	19.53	19.37	179.76	504.07	-470.29	1,220.34	1,184.59	35.75	34.134		
5,200.00	5,166.59	5,046.92	5,008.16	19.94	19.75	179.88	514.74	-476.87	1,245.50	1,209.04	36.47	34.156		
5,300.00	5,265.79	5,143.68	5,104.10	20.34	20.14	179.99	525.41	-483.45	1,270.67	1,233.49	37.18	34.176		
5,400.00	5,364.98	5,240.43	5,200.03	20.75	20.53	-179.90	536.08	-490.03	1,295.84	1,257.95	37.89	34.196		
5,500.00	5,464.18	5,337.18	5,295.97	21.15	20.92	-179.79	546.74	-496.62	1,321.02	1,282.41	38.61	34.216		
5,600.00	5,563.38	5,433.93	5,391.90	21.56	21.31	-179.69	557.41	-503.20	1,346.20	1,306.88	39.32	34.234		
5,700.00	5,662.57	5,530.68	5,487.84	21.97	21.70	-179.60	568.08	-509.78	1,371.39	1,331.35	40.04	34.252		
5,800.00	5,761.77	5,627.43	5,583.77	22.37	22.09	-179.50	578.75	-516.36	1,396.58	1,355.82	40.75	34.269		
5,900.00	5,860.97	5,724.18	5,679.71	22.78	22.48	-179.41	589.42	-522.95	1,421.77	1,380.30	41.47	34.286		
6,000.00	5,960.16	5,820.93	5,775.64	23.18	22.86	-179.33	600.08	-529.53	1,446.96	1,404.78	42.18	34.302		
6,100.00	6,059.36	5,917.68	5,871.58	23.59	23.25	-179.24	610.75	-536.11	1,472.16	1,429.26	42.90	34.317		
6,200.00	6,158.56	6,014.43	5,967.52	24.00	23.64	-179.16	621.42	-542.69	1,497.36	1,453.75	43.61	34.332		
6,500.00	6,456.15	6,419.30	7,455.00	25.21	30.52	136.83	-513.86	-644.76	1,498.75	1,457.24	41.52	36.101		
6,600.00	6,555.34	8,428.61	7,455.00	25.62	30.59	136.39	-523.18	-644.76	1,441.23	1,397.53	43.70	32.977		
6,702.76	6,657.28	8,438.18	7,455.00	26.04	30.66	135.94	-532.75	-644.76	1,387.09	1,341.09	46.00	30.152		
6,750.00	6,704.24	8,441.03	7,455.00	26.22	30.68	163.69	-535.59	-644.76	1,364.05	1,317.00	47.05	28.990		
6,800.00	6,754.03	8,440.65	7,455.00	26.40	30.67	-156.17	-535.21	-644.76	1,341.10	1,292.97	48.12	27.867		
6,850.00	6,803.66	8,436.79	7,455.00	26.56	30.65	-132.65	-531.35	-644.76	1,319.81	1,270.66	49.15	26.854		
6,900.00	6,852.89	8,429.46	7,455.00	26.70	30.59	-122.04	-524.02	-644.76	1,300.34	1,250.22	50.11	25.949		
6,950.00	6,901.49	8,418.70	7,455.00	26.83	30.52	-116.64	-513.27	-644.76	1,282.80	1,231.80	51.01	25.150		
7,000.00	6,949.20	8,404.57	7,455.00	26.95	30.42	-113.43	-499.13	-644.76	1,267.29	1,215.47	51.82	24.455		
7,050.00	6,995.81	8,387.13	7,455.00	27.05	30.30	-111.21	-481.69	-644.76	1,253.83	1,201.27	52.56	23.856		
7,100.00	7,041.08	8,366.46	7,455.00	27.15	30.17	-109.45	-461.02	-644.76	1,242.43	1,189.22	53.21	23.351		
7,150.00	7,084.79	8,342.67	7,455.00	27.23	30.01	-107.90	-437.23	-644.76	1,233.04	1,179.28	53.76	22.936		
7,200.00	7,126.74	8,315.87	7,455.00	27.31	29.84	-106.42	-410.44	-644.76	1,225.57	1,171.35	54.22	22.605		
7,250.00	7,166.71	8,286.20	7,455.00	27.37	29.66	-104.96	-380.77	-644.76	1,219.90	1,165.31	54.59	22.348		
7,300.00	7,204.52	8,253.80	7,455.00	27.42	29.47	-103.49	-348.36	-644.76	1,215.88	1,161.00	54.88	22.156		
7,350.00	7,239.97	8,218.82	7,455.00	27.47	29.28	-102.01	-313.39	-644.76	1,213.33	1,158.25	55.09	22.025		
7,400.00	7,272.89	8,181.44	7,455.00	27.51	29.08	-100.52	-276.00	-644.76	1,212.07	1,156.83	55.24	21.943		
7,434.50	7,294.06	8,154.34	7,455.00	27.53	28.94	-99.51	-248.90	-644.76	1,211.83	1,156.52	55.31	21.908		
7,450.00	7,303.14	8,141.84	7,455.00	27.54	28.88	-99.05	-236.40	-644.76	1,211.88	1,156.54	55.34	21.900		
7,500.00	7,330.54	8,100.21	7,455.00	27.57	28.68	-97.63	-194.77	-644.76	1,212.56	1,157.18	55.38	21.894 SF		
7,550.00	7,354.98	8,056.75	7,455.00	27.60	28.51	-96.28	-151.31	-644.76	1,213.91	1,158.48	55.42	21.903		
7,600.00	7,376.34	8,011.68	7,455.00	27.63	28.33	-95.03	-106.24	-644.76	1,215.73	1,160.30	55.43	21.934		
7,650.00	7,394.51	7,965.21	7,455.00	27.66	28.19	-93.91	-59.78	-644.76	1,217.85	1,162.41	55.44	21.967		
7,700.00	7,409.39	7,917.35	7,455.00	27.71	28.06	-92.94	-11.91	-644.76	1,220.10	1,164.66	55.45	22.006		
7,750.00	7,420.93	7,859.39	7,452.56	27.77	27.94	-91.94	45.97	-644.59	1,222.17	1,166.73	55.44	22.046		
7,800.00	7,429.06	7,802.88	7,445.69	27.86	27.85	-91.00	102.05	-644.12	1,223.83	1,168.38	55.45	22.070		
7,850.00	7,433.75	7,747.76	7,434.76	27.97	27.79	-90.12	156.06	-643.37	1,225.10	1,169.61	55.49	22.077		
7,892.48	7,435.00	7,702.00	7,422.56	28.09	27.76	-89.42	200.15	-642.53	1,225.87	1,170.33	55.54	22.072		
7,900.00	7,435.00	7,694.00	7,420.14	28.12	27.76	-89.31	207.77	-642.36	1,225.98	1,170.43	55.55	22.070		
8,000.00	7,435.00	7,593.60	7,382.67	28.50	27.72	-87.56	300.79	-639.79	1,227.63	1,171.90	55.73	22.028		
8,100.00	7,435.00	7,505.16	7,339.19	28.99	27.71	-85.53	377.69	-636.81	1,230.50	1,174.53	55.97	21.985		
8,200.00	7,435.00	7,428.87	7,294.33	29.57	27.69	-83.45	439.27	-633.73	1,235.87	1,179.63	56.23	21.978		
8,300.00	7,435.00	7,363.80	7,251.09	30.22	27.67	-81.45	487.78	-630.76	1,244.83	1,188.33	56.50	22.031		
8,400.00	7,435.00	7,308.49	7,211.01	30.94	27.64	-79.61	525.77	-628.01	1,258.26	1,201.49	56.78	22.161		
8,500.00	7,435.00	7,261.44	7,174.69	31.72	27.61	-77.96	555.57	-625.52	1,276.75	1,219.70	57.05	22.379		
8,600.00	7,435.00	7,221.25	7,142.18	32.56	27.58	-76.49	579.08	-623.29	1,300.63	1,243.31	57.32	22.691		
8,700.00	7,435.00	7,186.73	7,113.24	33.44	27.55	-75.20	597.80	-621.31	1,330.03	1,272.44	57.58	23.098		
8,800.00	7,435.00	7,150.00	7,081.51	34.38	27.51	-73.79	616.14	-619.13	1,364.92	1,307.16	57.76	23.631		
8,900.00	7,435.00	7,130.91	7,064.65	35.36	27.48	-73.05	625.03	-617.97	1,405.05	1,347.00	58.06	24.202		
9,000.00	7,435.00	7,100.00	7,036.88	36.38	27.44	-71.84	638.46	-616.07	1,450.29	1,392.11	58.18	24.927		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4B-32H-O268 - 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	-89.71	0.77	-149.97	149.97					
100.00	100.00	100.00	100.00	0.14	0.14	-89.71	0.77	-149.97	149.97	149.69	0.28	543.315		
200.00	200.00	200.00	200.00	0.50	0.50	-89.71	0.77	-149.97	149.97	148.97	0.99	151.030		
300.00	300.00	300.00	300.00	0.85	0.85	-89.71	0.77	-149.97	149.97	148.26	1.71	87.705 CC		
400.00	400.00	398.90	398.88	1.21	1.21	-89.07	2.44	-150.31	150.33	147.91	2.42	62.028 ES		
500.00	500.00	497.57	497.42	1.57	1.57	-87.18	7.44	-151.32	151.53	148.39	3.14	48.261		
600.00	600.00	595.77	595.25	1.93	1.93	-84.14	15.72	-153.00	153.88	150.02	3.86	39.840		
700.00	700.00	694.87	693.75	2.29	2.29	-80.38	26.30	-155.15	157.49	152.90	4.59	34.304		
800.00	800.00	794.27	792.55	2.65	2.66	-76.77	36.97	-157.32	161.78	156.45	5.32	30.403		
900.00	899.98	893.48	891.17	2.99	3.04	149.47	47.63	-159.48	168.17	162.14	6.04	27.859		
1,000.00	999.84	992.25	989.34	3.33	3.42	153.30	58.23	-161.63	178.33	171.59	6.74	26.452		
1,100.00	1,099.45	1,090.44	1,086.95	3.67	3.79	157.07	68.78	-163.78	192.42	184.97	7.45	25.837		
1,163.41	1,162.43	1,152.36	1,148.49	3.89	4.03	159.35	75.43	-165.13	203.43	195.53	7.90	25.763		
1,200.00	1,198.73	1,188.01	1,183.92	4.02	4.17	160.64	79.26	-165.90	210.30	202.14	8.15	25.792		
1,300.00	1,297.93	1,285.42	1,280.75	4.39	4.54	163.76	89.72	-168.03	229.55	220.70	8.85	25.933		
1,400.00	1,397.13	1,382.83	1,377.57	4.76	4.91	166.41	100.18	-170.15	249.36	239.81	9.55	26.108		
1,500.00	1,496.32	1,480.24	1,474.40	5.13	5.29	168.66	110.64	-172.28	269.61	259.36	10.25	26.297		
1,600.00	1,595.52	1,577.65	1,571.22	5.51	5.67	170.60	121.10	-174.40	290.21	279.26	10.95	26.491		
1,700.00	1,694.71	1,675.07	1,668.05	5.90	6.04	172.28	131.56	-176.52	311.09	299.43	11.66	26.683		
1,800.00	1,793.91	1,772.48	1,764.87	6.29	6.42	173.75	142.02	-178.65	332.19	319.83	12.36	26.868		
1,900.00	1,893.11	1,869.89	1,861.70	6.68	6.79	175.04	152.48	-180.77	353.48	340.41	13.07	27.045		
2,000.00	1,992.30	1,967.30	1,958.53	7.07	7.17	176.19	162.95	-182.90	374.92	361.14	13.78	27.213		
2,100.00	2,091.50	2,064.72	2,055.35	7.46	7.55	177.22	173.41	-185.02	396.49	382.01	14.49	27.372		
2,200.00	2,190.70	2,162.13	2,152.18	7.86	7.92	178.14	183.87	-187.15	418.17	402.98	15.19	27.521		
2,300.00	2,289.89	2,259.54	2,249.00	8.25	8.30	178.96	194.33	-189.27	439.94	424.04	15.90	27.662		
2,400.00	2,389.09	2,356.95	2,345.83	8.65	8.68	179.72	204.79	-191.39	461.80	445.18	16.61	27.794		
2,500.00	2,488.29	2,454.37	2,442.65	9.05	9.05	-179.60	215.25	-193.52	483.72	466.39	17.33	27.918		
2,600.00	2,587.48	2,551.78	2,539.48	9.45	9.43	-178.98	225.71	-195.64	505.70	487.66	18.04	28.035		
2,700.00	2,686.68	2,649.19	2,636.31	9.85	9.81	-178.41	236.17	-197.77	527.73	508.98	18.75	28.145		
2,800.00	2,785.88	2,746.60	2,733.13	10.25	10.19	-177.88	246.63	-199.89	549.81	530.35	19.46	28.249		
2,900.00	2,885.07	2,844.02	2,829.96	10.65	10.56	-177.39	257.10	-202.02	571.93	551.75	20.18	28.346		
3,000.00	2,984.27	2,941.43	2,926.78	11.05	10.94	-176.95	267.56	-204.14	594.09	573.20	20.89	28.438		
3,100.00	3,083.47	3,038.84	3,023.61	11.45	11.32	-176.53	278.02	-206.26	616.28	594.67	21.60	28.525		
3,200.00	3,182.66	3,136.25	3,120.43	11.85	11.69	-176.14	288.48	-208.39	638.49	616.17	22.32	28.607		
3,300.00	3,281.86	3,233.67	3,217.26	12.25	12.07	-175.78	298.94	-210.51	660.74	637.70	23.03	28.685		
3,400.00	3,381.05	3,331.08	3,314.09	12.66	12.45	-175.44	309.40	-212.64	683.01	659.26	23.75	28.758		
3,500.00	3,480.25	3,428.49	3,410.91	13.06	12.83	-175.12	319.86	-214.76	705.29	680.83	24.47	28.828		
3,600.00	3,579.45	3,525.90	3,507.74	13.46	13.20	-174.82	330.32	-216.88	727.60	702.42	25.18	28.895		
3,700.00	3,678.64	3,623.31	3,604.56	13.87	13.58	-174.54	340.78	-219.01	749.93	724.03	25.90	28.958		
3,800.00	3,777.84	3,720.73	3,701.39	14.27	13.96	-174.28	351.25	-221.13	772.27	745.66	26.61	29.018		
3,900.00	3,877.04	3,818.14	3,798.22	14.67	14.34	-174.03	361.71	-223.26	794.63	767.29	27.33	29.075		
4,000.00	3,976.23	3,915.55	3,895.04	15.08	14.71	-173.80	372.17	-225.38	816.99	788.95	28.05	29.129		
4,100.00	4,075.43	4,012.96	3,991.87	15.48	15.09	-173.57	382.63	-227.51	839.38	810.61	28.76	29.181		
4,200.00	4,174.63	4,110.38	4,088.69	15.89	15.47	-173.36	393.09	-229.63	861.77	832.29	29.48	29.231		
4,300.00	4,273.82	4,207.79	4,185.52	16.29	15.85	-173.16	403.55	-231.75	884.17	853.98	30.20	29.279		
4,400.00	4,373.02	4,305.20	4,282.34	16.70	16.22	-172.97	414.01	-233.88	906.59	875.67	30.92	29.324		
4,500.00	4,472.22	4,402.61	4,379.17	17.10	16.60	-172.79	424.47	-236.00	929.01	897.38	31.63	29.368		
4,600.00	4,571.41	4,500.03	4,476.00	17.51	16.98	-172.62	434.93	-238.13	951.44	919.09	32.35	29.410		
4,700.00	4,670.61	4,597.44	4,572.82	17.91	17.36	-172.45	445.40	-240.25	973.88	940.81	33.07	29.450		
4,800.00	4,769.81	4,694.85	4,669.65	18.32	17.73	-172.29	455.86	-242.38	996.33	962.54	33.79	29.488		
4,900.00	4,869.00	4,792.26	4,766.47	18.72	18.11	-172.14	466.32	-244.50	1,018.78	984.28	34.51	29.525		
5,000.00	4,968.20	4,889.68	4,863.30	19.13	18.49	-172.00	476.78	-246.62	1,041.24	1,006.02	35.22	29.561		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4B-32H-O268 - 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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning			
5,100.00	5,067.40	4,987.09	4,960.12	19.53	18.87	-171.86	487.24	-248.75	1,063.71	1,027.77	35.94	29.595				
5,200.00	5,166.59	5,084.50	5,056.95	19.94	19.25	-171.73	497.70	-250.87	1,086.18	1,049.52	36.66	29.628				
5,300.00	5,265.79	5,181.91	5,153.78	20.34	19.62	-171.60	508.16	-253.00	1,108.66	1,071.28	37.38	29.659				
5,400.00	5,364.98	5,279.32	5,250.60	20.75	20.00	-171.48	518.62	-255.12	1,131.14	1,093.04	38.10	29.690				
5,500.00	5,464.18	5,376.74	5,347.43	21.15	20.38	-171.36	529.08	-257.24	1,153.63	1,114.81	38.82	29.719				
5,600.00	5,563.38	5,474.15	5,444.25	21.56	20.76	-171.25	539.55	-259.37	1,176.12	1,136.58	39.54	29.748				
5,700.00	5,662.57	5,571.56	5,541.08	21.97	21.13	-171.14	550.01	-261.49	1,198.61	1,158.36	40.26	29.775				
5,800.00	5,761.77	5,668.97	5,637.90	22.37	21.51	-171.04	560.47	-263.62	1,221.11	1,180.14	40.97	29.802				
5,900.00	5,860.97	5,766.39	5,734.73	22.78	21.89	-170.94	570.93	-265.74	1,243.61	1,201.92	41.69	29.827				
6,000.00	5,960.16	5,863.80	5,831.56	23.18	22.27	-170.84	581.39	-267.87	1,266.12	1,223.71	42.41	29.852				
6,100.00	6,059.36	5,961.21	5,928.38	23.59	22.64	-170.74	591.85	-269.99	1,288.63	1,245.50	43.13	29.876				
6,200.00	6,158.56	6,058.62	6,025.21	24.00	23.02	-170.65	602.31	-272.11	1,311.14	1,267.29	43.85	29.899				
6,300.00	6,257.75	6,156.04	6,122.03	24.40	23.40	-170.57	612.77	-274.24	1,333.66	1,289.09	44.57	29.922				
6,400.00	6,356.95	6,253.45	6,218.86	24.81	23.78	-170.48	623.23	-276.36	1,356.18	1,310.89	45.29	29.943				
6,500.00	6,456.15	6,350.86	6,315.68	25.21	24.15	-170.40	633.70	-278.49	1,378.70	1,332.69	46.01	29.964				
6,600.00	6,555.34	6,456.28	6,421.86	25.62	30.89	139.91	-509.00	-331.06	1,391.43	1,356.18	35.26	39.467				
6,702.76	6,657.28	8,635.69	7,685.00	26.04	30.96	139.32	-518.41	-331.23	1,315.60	1,278.05	37.55	35.035				
6,750.00	6,704.24	8,638.47	7,685.00	26.22	30.98	165.31	-521.19	-331.28	1,281.92	1,243.27	38.66	33.160				
6,800.00	6,754.03	8,638.01	7,685.00	26.40	30.97	-156.33	-520.73	-331.27	1,247.21	1,207.36	39.84	31.302				
6,850.00	6,803.66	8,634.07	7,685.00	26.56	30.95	-134.47	-516.79	-331.20	1,213.70	1,172.66	41.04	29.575				
6,900.00	6,852.89	8,626.66	7,685.00	26.70	30.90	-125.38	-509.38	-331.07	1,181.64	1,139.41	42.23	27.981				
6,950.00	6,901.49	8,615.82	7,685.00	26.83	30.82	-121.35	-498.55	-330.88	1,151.24	1,107.83	43.41	26.519				
7,000.00	6,949.20	8,601.61	7,685.00	26.95	30.73	-119.38	-484.34	-330.63	1,122.70	1,078.13	44.57	25.188				
7,050.00	6,995.81	8,584.09	7,685.00	27.05	30.62	-118.27	-466.82	-330.33	1,096.17	1,050.47	45.71	23.983				
7,100.00	7,041.08	8,563.34	7,685.00	27.15	30.50	-117.52	-446.07	-329.96	1,071.78	1,024.99	46.80	22.904				
7,150.00	7,084.79	8,539.47	7,685.00	27.23	30.35	-116.87	-422.21	-329.55	1,049.61	1,001.79	47.82	21.947				
7,200.00	7,126.74	8,512.60	7,685.00	27.31	30.19	-116.20	-395.34	-329.08	1,029.70	980.92	48.78	21.109				
7,250.00	7,166.71	8,482.85	7,685.00	27.37	30.03	-115.48	-365.60	-328.56	1,012.06	962.39	49.67	20.377				
7,300.00	7,204.52	8,450.38	7,685.00	27.42	29.85	-114.66	-333.13	-327.99	996.63	946.16	50.47	19.746				
7,350.00	7,239.97	8,415.33	7,685.00	27.47	29.67	-113.76	-298.08	-327.38	983.35	932.17	51.18	19.212				
7,400.00	7,272.89	8,377.88	7,685.00	27.51	29.49	-112.80	-260.64	-326.73	972.09	920.27	51.81	18.761				
7,450.00	7,303.14	8,338.21	7,685.00	27.54	29.31	-111.78	-220.98	-326.03	962.71	910.35	52.36	18.385				
7,500.00	7,330.54	8,296.52	7,685.00	27.57	29.12	-110.75	-179.30	-325.31	955.05	902.23	52.82	18.080				
7,550.00	7,354.98	8,253.01	7,685.00	27.60	28.96	-109.73	-135.79	-324.55	948.94	895.71	53.23	17.827				
7,600.00	7,376.34	8,207.89	7,685.00	27.63	28.79	-108.76	-90.67	-323.76	944.19	890.63	53.56	17.628				
7,650.00	7,394.51	8,161.37	7,685.00	27.66	28.65	-107.86	-44.17	-322.95	940.65	886.80	53.85	17.468				
7,700.00	7,409.39	8,100.16	7,684.25	27.71	28.48	-106.82	17.02	-321.86	938.00	883.96	54.05	17.355				
7,750.00	7,420.93	8,021.12	7,676.31	27.77	28.29	-105.40	95.61	-320.30	934.93	880.68	54.25	17.233				
7,800.00	7,429.06	7,946.18	7,660.82	27.86	28.14	-103.98	168.88	-318.65	931.28	876.75	54.54	17.076				
7,850.00	7,433.75	7,875.21	7,639.17	27.97	28.02	-102.57	236.41	-316.96	927.21	872.34	54.87	16.898				
7,892.48	7,435.00	7,817.90	7,616.88	28.09	27.94	-101.40	289.17	-315.50	923.53	868.36	55.17	16.740				
7,900.00	7,435.00	7,808.05	7,612.63	28.12	27.92	-101.14	298.06	-315.25	922.86	867.64	55.22	16.712				
8,000.00	7,435.00	7,689.59	7,552.20	28.50	27.79	-97.40	399.73	-312.03	913.47	857.52	55.95	16.327				
8,100.00	7,435.00	7,593.58	7,491.44	28.99	27.70	-93.58	473.94	-309.29	905.35	848.76	56.59	15.998				
8,200.00	7,435.00	7,516.76	7,436.03	29.57	27.63	-90.07	527.04	-307.04	901.26	844.16	57.09	15.786				
8,221.20	7,435.00	7,502.56	7,425.18	29.70	27.61	-89.38	536.18	-306.62	901.11	843.93	57.19	15.757				
8,300.00	7,435.00	7,455.22	7,387.73	30.22	27.56	-87.00	565.10	-305.23	903.24	845.78	57.46	15.721 SF				
8,400.00	7,435.00	7,405.50	7,346.43	30.94	27.51	-84.38	592.73	-303.76	912.63	854.93	57.70	15.817				
8,500.00	7,435.00	7,364.86	7,311.32	31.72	27.45	-82.17	613.15	-302.57	930.16	872.31	57.85	16.079				
8,600.00	7,435.00	7,331.22	7,281.41	32.56	27.40	-80.31	628.52	-301.59	956.00	898.08	57.92	16.505				
8,700.00	7,435.00	7,300.00	7,253.04	33.44	27.36	-78.55	641.51	-300.68	989.94	932.05	57.90	17.098				
8,800.00	7,435.00	7,279.14	7,233.78	34.38	27.32	-77.37	649.49	-300.08	1,031.47	973.57	57.89	17.817				

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4B-32H-O268 - 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
8,900.00	7,435.00	7,250.00	7,206.51	35.36	27.27	-75.72	659.70	-299.26	1,079.99	1,022.27	57.72	18.711	
9,000.00	7,435.00	7,250.00	7,206.51	36.38	27.27	-75.72	659.70	-299.26	1,134.63	1,076.80	57.83	19.620	
9,100.00	7,435.00	7,225.53	7,183.29	37.43	27.22	-74.33	667.41	-298.57	1,194.64	1,137.02	57.62	20.733	
9,200.00	7,435.00	7,200.00	7,158.81	38.52	27.17	-72.88	674.61	-297.86	1,259.58	1,202.21	57.38	21.953	
9,300.00	7,435.00	7,200.00	7,158.81	39.64	27.17	-72.88	674.61	-297.86	1,328.38	1,270.98	57.39	23.145	
9,400.00	7,435.00	7,200.00	7,158.81	40.79	27.17	-72.88	674.61	-297.86	1,400.94	1,343.55	57.38	24.414	
9,500.00	7,435.00	7,179.60	7,139.07	41.97	27.13	-71.73	679.72	-297.30	1,476.34	1,419.17	57.17	25.824	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4C-32H-O268 - 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	-89.69	0.75	-139.89	139.90				
100.00	100.00	100.00	100.00	0.14	0.14	-89.69	0.75	-139.89	139.90	139.62	0.28	506.824	
200.00	200.00	200.00	200.00	0.50	0.50	-89.69	0.75	-139.89	139.90	138.90	0.99	140.886	
300.00	300.00	300.00	300.00	0.85	0.85	-89.69	0.75	-139.89	139.90	138.19	1.71	81.814	
366.67	366.67	366.67	366.67	1.09	1.09	-89.69	0.75	-139.89	139.90	137.71	2.19	63.941	
400.00	400.00	400.00	400.00	1.21	1.21	-89.69	0.75	-139.89	139.90	137.47	2.43	57.645 CC	
500.00	500.00	499.56	499.54	1.57	1.57	-88.99	2.47	-140.03	140.05	136.91	3.14	44.576	
600.00	600.00	598.89	598.73	1.93	1.93	-86.89	7.63	-140.42	140.63	136.78	3.86	36.462 ES	
700.00	700.00	697.73	697.20	2.29	2.29	-83.46	16.16	-141.07	142.02	137.45	4.58	31.035	
800.00	800.00	796.89	795.75	2.65	2.65	-79.19	27.11	-141.91	144.54	139.24	5.30	27.255	
900.00	899.98	896.10	894.33	2.99	3.02	147.87	38.15	-142.76	149.35	143.33	6.02	24.815	
1,000.00	999.84	994.87	992.49	3.33	3.39	152.56	49.14	-143.60	158.11	151.39	6.72	23.512	
1,100.00	1,099.45	1,093.10	1,090.10	3.67	3.77	157.16	60.07	-144.43	171.05	163.62	7.43	23.011	
1,163.41	1,162.43	1,155.04	1,151.66	3.89	4.00	159.90	66.96	-144.96	181.47	173.58	7.88	23.016	
1,200.00	1,198.73	1,190.71	1,187.10	4.02	4.14	161.43	70.93	-145.27	188.04	179.89	8.14	23.092	
1,300.00	1,297.93	1,288.18	1,283.96	4.39	4.51	165.10	81.78	-146.10	206.57	197.73	8.84	23.357	
1,400.00	1,397.13	1,385.65	1,380.82	4.76	4.89	168.16	92.62	-146.93	225.81	216.26	9.55	23.652	
1,500.00	1,496.32	1,483.11	1,477.68	5.13	5.26	170.74	103.47	-147.76	245.57	235.32	10.25	23.957	
1,600.00	1,595.52	1,580.58	1,574.54	5.51	5.64	172.94	114.32	-148.59	265.75	254.79	10.96	24.257	
1,700.00	1,694.71	1,678.05	1,671.40	5.90	6.01	174.83	125.16	-149.42	286.25	274.58	11.66	24.546	
1,800.00	1,793.91	1,775.52	1,768.26	6.29	6.39	176.46	136.01	-150.25	307.01	294.64	12.37	24.821	
1,900.00	1,893.11	1,872.98	1,865.12	6.68	6.76	177.89	146.86	-151.08	327.98	314.90	13.08	25.081	
2,000.00	1,992.30	1,970.45	1,961.97	7.07	7.14	179.15	157.70	-151.91	349.12	335.34	13.79	25.324	
2,100.00	2,091.50	2,067.92	2,058.83	7.46	7.52	-179.73	168.55	-152.74	370.41	355.91	14.50	25.551	
2,200.00	2,190.70	2,165.39	2,155.69	7.86	7.89	-178.74	179.39	-153.57	391.82	376.61	15.21	25.764	
2,300.00	2,289.89	2,262.85	2,252.55	8.25	8.27	-177.85	190.24	-154.40	413.32	397.40	15.92	25.963	
2,400.00	2,389.09	2,360.32	2,349.41	8.65	8.65	-177.05	201.09	-155.23	434.92	418.28	16.63	26.148	
2,500.00	2,488.29	2,457.79	2,446.27	9.05	9.03	-176.32	211.93	-156.06	456.59	439.24	17.35	26.322	
2,600.00	2,587.48	2,555.26	2,543.13	9.45	9.40	-175.66	222.78	-156.89	478.32	460.26	18.06	26.484	
2,700.00	2,686.68	2,652.72	2,639.99	9.85	9.78	-175.06	233.63	-157.72	500.11	481.33	18.78	26.636	
2,800.00	2,785.88	2,750.19	2,736.84	10.25	10.16	-174.50	244.47	-158.55	521.94	502.45	19.49	26.779	
2,900.00	2,885.07	2,847.66	2,833.70	10.65	10.54	-173.99	255.32	-159.38	543.82	523.61	20.21	26.913	
3,000.00	2,984.27	2,945.13	2,930.56	11.05	10.92	-173.52	266.16	-160.21	565.74	544.81	20.92	27.039	
3,100.00	3,083.47	3,042.60	3,027.42	11.45	11.29	-173.09	277.01	-161.04	587.69	566.05	21.64	27.158	
3,200.00	3,182.66	3,140.06	3,124.28	11.85	11.67	-172.69	287.86	-161.87	609.67	587.31	22.36	27.270	
3,300.00	3,281.86	3,237.53	3,221.14	12.25	12.05	-172.31	298.70	-162.70	631.67	608.60	23.07	27.376	
3,400.00	3,381.05	3,335.00	3,318.00	12.66	12.43	-171.96	309.55	-163.53	653.71	629.91	23.79	27.476	
3,500.00	3,480.25	3,432.47	3,414.85	13.06	12.81	-171.63	320.39	-164.36	675.76	651.25	24.51	27.571	
3,600.00	3,579.45	3,529.93	3,511.71	13.46	13.18	-171.33	331.24	-165.19	697.83	672.60	25.23	27.660	
3,700.00	3,678.64	3,627.40	3,608.57	13.87	13.56	-171.04	342.09	-166.02	719.92	693.97	25.95	27.746	
3,800.00	3,777.84	3,724.87	3,705.43	14.27	13.94	-170.77	352.93	-166.85	742.03	715.36	26.67	27.827	
3,900.00	3,877.04	3,822.34	3,802.29	14.67	14.32	-170.51	363.78	-167.68	764.15	736.76	27.39	27.904	
4,000.00	3,976.23	3,919.80	3,899.15	15.08	14.70	-170.27	374.63	-168.51	786.28	758.18	28.10	27.977	
4,100.00	4,075.43	4,017.27	3,996.01	15.48	15.08	-170.04	385.47	-169.34	808.43	779.61	28.82	28.047	
4,200.00	4,174.63	4,114.74	4,092.87	15.89	15.45	-169.83	396.32	-170.17	830.59	801.05	29.54	28.114	
4,300.00	4,273.82	4,212.21	4,189.72	16.29	15.83	-169.62	407.16	-171.00	852.76	822.50	30.26	28.178	
4,400.00	4,373.02	4,309.67	4,286.58	16.70	16.21	-169.43	418.01	-171.83	874.94	843.96	30.98	28.238	
4,500.00	4,472.22	4,407.14	4,383.44	17.10	16.59	-169.25	428.86	-172.66	897.13	865.42	31.70	28.297	
4,600.00	4,571.41	4,504.61	4,480.30	17.51	16.97	-169.07	439.70	-173.49	919.33	886.90	32.42	28.353	
4,700.00	4,670.61	4,602.08	4,577.16	17.91	17.35	-168.90	450.55	-174.32	941.53	908.39	33.15	28.406	
4,800.00	4,769.81	4,699.54	4,674.02	18.32	17.72	-168.74	461.40	-175.15	963.74	929.88	33.87	28.458	
4,900.00	4,869.00	4,797.01	4,770.88	18.72	18.10	-168.59	472.24	-175.98	985.96	951.37	34.59	28.507	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4C-32H-O268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.00	4,968.20	4,894.48	4,867.74	19.13	18.48	-168.45	483.09	-176.81	1,008.19	972.88	35.31	28.554		
5,100.00	5,067.40	4,991.95	4,964.59	19.53	18.86	-168.31	493.93	-177.64	1,030.42	994.39	36.03	28.600		
5,200.00	5,166.59	5,089.42	5,061.45	19.94	19.24	-168.17	504.78	-178.47	1,052.65	1,015.90	36.75	28.644		
5,300.00	5,265.79	5,186.88	5,158.31	20.34	19.62	-168.04	515.63	-179.30	1,074.90	1,037.43	37.47	28.686		
5,400.00	5,364.98	5,284.35	5,255.17	20.75	20.00	-167.92	526.47	-180.13	1,097.14	1,058.95	38.19	28.726		
5,500.00	5,464.18	5,381.82	5,352.03	21.15	20.37	-167.80	537.32	-180.96	1,119.39	1,080.48	38.91	28.766		
5,600.00	5,563.38	5,479.29	5,448.89	21.56	20.75	-167.69	548.17	-181.79	1,141.65	1,102.01	39.64	28.803		
5,700.00	5,662.57	5,576.75	5,545.75	21.97	21.13	-167.58	559.01	-182.62	1,163.91	1,123.55	40.36	28.840		
5,800.00	5,761.77	5,674.22	5,642.60	22.37	21.51	-167.48	569.86	-183.45	1,186.17	1,145.09	41.08	28.875		
5,900.00	5,860.97	5,771.69	5,739.46	22.78	21.89	-167.38	580.70	-184.28	1,208.44	1,166.64	41.80	28.909		
6,000.00	5,960.16	5,869.16	5,836.32	23.18	22.27	-167.28	591.55	-185.11	1,230.71	1,188.19	42.52	28.942		
6,100.00	6,059.36	5,966.62	5,933.18	23.59	22.65	-167.19	602.40	-185.94	1,252.99	1,209.74	43.25	28.974		
6,200.00	6,158.56	6,064.09	6,030.04	24.00	23.02	-167.09	613.24	-186.78	1,275.26	1,231.30	43.97	29.005		
6,300.00	6,257.75	6,161.56	6,126.90	24.40	23.40	-167.01	624.09	-187.61	1,297.54	1,252.85	44.69	29.034		
6,400.00	6,356.95	6,259.03	6,223.76	24.81	23.78	-166.92	634.93	-188.44	1,319.83	1,274.41	45.41	29.063		
6,500.00	6,456.15	6,358.23	6,322.00	25.21	30.59	140.06	-513.87	-199.90	1,292.59	1,260.33	32.26	40.073		
6,600.00	6,555.34	6,454.54	6,419.00	25.62	30.66	139.38	-523.18	-199.90	1,213.76	1,179.28	34.48	35.202		
6,702.76	6,657.28	6,554.11	6,519.00	26.04	30.73	138.67	-532.75	-199.90	1,136.15	1,099.14	37.01	30.695		
6,750.00	6,704.24	6,602.96	6,567.00	26.22	30.75	164.46	-535.59	-199.90	1,101.79	1,063.54	38.25	28.801		
6,800.00	6,754.03	6,652.58	6,617.00	26.40	30.74	-157.30	-535.22	-199.90	1,066.50	1,026.90	39.60	26.933		
6,850.00	6,803.66	6,702.72	6,667.00	26.56	30.72	-135.48	-531.35	-199.90	1,032.61	991.65	40.96	25.208		
6,900.00	6,852.89	6,751.39	6,715.00	26.70	30.66	-126.32	-524.03	-199.90	1,000.40	958.06	42.34	23.627		
6,950.00	6,901.49	6,800.63	6,764.00	26.83	30.59	-122.16	-513.27	-199.90	970.11	926.40	43.72	22.191		
7,000.00	6,949.20	6,848.50	6,812.00	26.95	30.50	-119.98	-499.14	-199.90	941.98	896.90	45.08	20.898		
7,050.00	6,995.81	6,893.05	6,856.00	27.05	30.38	-118.60	-481.69	-199.90	916.18	869.78	46.40	19.745		
7,100.00	7,041.08	6,939.39	6,902.00	27.15	30.25	-117.52	-461.03	-199.90	892.87	845.20	47.67	18.731		
7,150.00	7,084.79	6,982.60	6,945.00	27.23	30.10	-116.49	-437.24	-199.90	872.12	823.27	48.86	17.851		
7,200.00	7,126.74	7,024.80	7,000.00	27.31	29.93	-115.41	-410.44	-199.90	853.99	804.04	49.95	17.099		
7,250.00	7,166.71	7,064.13	7,040.00	27.37	29.76	-114.22	-380.77	-199.90	838.44	787.50	50.94	16.460		
7,300.00	7,204.52	7,102.73	7,078.00	27.42	29.58	-112.92	-348.37	-199.90	825.41	773.60	51.81	15.931		
7,350.00	7,239.97	7,138.75	7,113.00	27.47	29.38	-111.51	-313.39	-199.90	814.75	762.20	52.55	15.504		
7,400.00	7,272.89	7,171.37	7,145.00	27.51	29.19	-110.01	-276.01	-199.89	806.29	753.11	53.19	15.160		
7,450.00	7,303.14	7,201.77	7,175.00	27.54	29.00	-108.47	-236.41	-199.89	799.83	746.13	53.70	14.894		
7,500.00	7,330.54	7,198.14	7,170.00	27.57	28.81	-106.91	-194.77	-199.89	795.12	741.01	54.11	14.695		
7,550.00	7,354.98	7,142.68	7,160.00	27.60	28.63	-105.39	-151.32	-199.89	791.91	737.47	54.44	14.547		
7,600.00	7,376.34	7,097.61	7,150.00	27.63	28.45	-103.95	-106.25	-199.89	789.96	735.28	54.68	14.447		
7,650.00	7,394.51	7,051.14	7,150.00	27.66	28.30	-102.64	-59.78	-199.89	789.03	734.14	54.89	14.376		
7,684.23	7,405.06	7,018.64	7,150.00	27.69	28.19	-101.83	-27.28	-199.89	788.86	733.87	54.99	14.344		
7,700.00	7,409.39	7,002.34	7,150.98	27.71	28.14	-101.46	-10.98	-199.89	788.89	733.86	55.03	14.335		
7,750.00	7,420.93	7,941.66	7,556.96	27.77	27.97	-100.12	49.61	-199.87	788.93	733.78	55.14	14.307		
7,800.00	7,429.06	7,882.70	7,549.13	27.86	27.83	-98.80	108.03	-199.80	788.80	733.52	55.28	14.269		
7,850.00	7,433.75	7,825.40	7,536.93	27.97	27.71	-97.51	164.00	-199.69	788.55	733.12	55.44	14.224		
7,892.48	7,435.00	7,777.99	7,523.49	28.09	27.61	-96.45	209.46	-199.58	788.27	732.70	55.58	14.184		
7,900.00	7,435.00	7,769.72	7,520.84	28.12	27.60	-96.25	217.29	-199.56	788.22	732.61	55.60	14.176		
8,000.00	7,435.00	7,666.47	7,480.26	28.50	27.43	-93.29	312.13	-199.21	787.60	731.63	55.97	14.073		
8,005.65	7,435.00	7,661.03	7,477.74	28.52	27.43	-93.11	316.96	-199.19	787.59	731.60	55.99	14.067		
8,100.00	7,435.00	7,576.51	7,434.10	28.99	27.32	-89.93	389.28	-198.81	788.76	732.47	56.29	14.013 SF		
8,200.00	7,435.00	7,500.00	7,387.49	29.57	27.24	-86.56	449.90	-198.41	793.86	737.38	56.49	14.053		
8,300.00	7,435.00	7,434.86	7,342.90	30.22	27.17	-83.36	497.36	-198.03	804.70	748.16	56.55	14.231		
8,400.00	7,435.00	7,380.15	7,302.24	30.94	27.11	-80.49	533.95	-197.68	822.52	766.04	56.48	14.562		
8,500.00	7,435.00	7,333.90	7,265.78	31.72	27.06	-77.95	562.39	-197.37	847.97	791.64	56.34	15.052		
8,600.00	7,435.00	7,300.00	7,237.93	32.56	27.02	-76.05	581.70	-197.13	881.24	825.03	56.21	15.677		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design											S32-T2N-R68W - HWY52 4C-32H-O268 - OH - PLAN #2			Offset Site Error:		0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor				
8,700.00	7,435.00	7,260.98	7,204.79	33.44	26.97	-73.82	602.28	-196.85	921.99	866.05	55.93	16.484				
8,800.00	7,435.00	7,232.02	7,179.48	34.38	26.93	-72.16	616.36	-196.63	969.76	914.02	55.73	17.401				
8,900.00	7,435.00	7,200.00	7,150.87	35.36	26.89	-70.31	630.73	-196.38	1,023.88	968.44	55.45	18.465				
9,000.00	7,435.00	7,184.92	7,137.18	36.38	26.86	-69.44	637.06	-196.27	1,083.52	1,028.14	55.39	19.563				
9,100.00	7,435.00	7,165.59	7,119.44	37.43	26.83	-68.33	644.74	-196.11	1,148.08	1,092.83	55.25	20.780				
9,200.00	7,435.00	7,150.00	7,104.99	38.52	26.81	-67.44	650.58	-195.99	1,216.87	1,161.71	55.16	22.062				
9,300.00	7,435.00	7,133.22	7,089.30	39.64	26.78	-66.48	656.51	-195.85	1,289.29	1,234.25	55.04	23.424				
9,400.00	7,435.00	7,119.57	7,076.43	40.79	26.75	-65.71	661.07	-195.74	1,364.83	1,309.87	54.96	24.831				
9,500.00	7,435.00	7,100.00	7,057.84	41.97	26.72	-64.60	667.17	-195.59	1,443.11	1,388.29	54.83	26.321				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4D-32H-O268 - 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	-89.68	0.73	-129.82	129.82					
100.00	100.00	100.00	100.00	0.14	0.14	-89.68	0.73	-129.82	129.82	129.55	0.28	470.333		
200.00	200.00	200.00	200.00	0.50	0.50	-89.68	0.73	-129.82	129.82	128.83	0.99	130.743		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.73	-129.82	129.82	128.11	1.71	75.924		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.73	-129.82	129.82	127.40	2.43	53.494		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.73	-129.82	129.82	126.68	3.14	41.295		
500.02	500.02	500.02	500.02	1.57	1.57	-89.68	0.73	-129.82	129.82	126.68	3.14	41.293		
600.00	600.00	599.93	599.91	1.93	1.93	-88.91	2.48	-129.82	129.84	125.98	3.86	33.640		
700.00	700.00	701.45	701.29	2.29	2.30	-86.62	7.65	-129.47	129.70	125.12	4.58	28.303		
800.00	800.00	804.39	803.89	2.65	2.67	-83.06	15.41	-126.64	127.64	122.32	5.32	24.002		
900.00	899.98	906.60	905.45	2.99	3.04	144.98	25.46	-121.04	125.23	119.20	6.04	20.743		
934.32	934.27	940.64	939.20	3.11	3.16	147.26	29.22	-118.68	124.96	118.69	6.28	19.912 CC, ES		
1,000.00	999.84	1,005.51	1,003.52	3.33	3.41	151.85	36.39	-114.19	126.01	119.28	6.73	18.712		
1,100.00	1,099.45	1,103.98	1,101.14	3.67	3.78	159.02	47.26	-107.37	131.85	124.40	7.45	17.705		
1,163.41	1,162.43	1,166.17	1,162.81	3.89	4.02	163.41	54.13	-103.06	138.31	130.40	7.91	17.494		
1,200.00	1,198.73	1,202.00	1,198.33	4.02	4.16	165.82	58.09	-100.58	142.77	134.60	8.17	17.475		
1,300.00	1,297.93	1,299.91	1,295.41	4.39	4.54	171.67	68.90	-93.80	156.15	147.25	8.89	17.560		
1,400.00	1,397.13	1,397.83	1,392.49	4.76	4.92	176.58	79.71	-87.02	170.89	161.28	9.62	17.772		
1,500.00	1,496.32	1,495.74	1,489.57	5.13	5.30	-179.31	90.53	-80.24	186.69	176.34	10.34	18.053		
1,600.00	1,595.52	1,593.66	1,586.65	5.51	5.68	-175.84	101.34	-73.46	203.28	192.22	11.07	18.368		
1,700.00	1,694.71	1,691.57	1,683.72	5.90	6.07	-172.90	112.16	-66.67	220.51	208.71	11.79	18.695		
1,800.00	1,793.91	1,789.49	1,780.80	6.29	6.45	-170.38	122.97	-59.89	238.22	225.69	12.52	19.021		
1,900.00	1,893.11	1,887.40	1,877.88	6.68	6.84	-168.21	133.78	-53.11	256.31	243.06	13.25	19.339		
2,000.00	1,992.30	1,985.32	1,974.96	7.07	7.23	-166.33	144.60	-46.33	274.72	260.73	13.99	19.643		
2,100.00	2,091.50	2,083.23	2,072.04	7.46	7.61	-164.69	155.41	-39.55	293.38	278.66	14.72	19.933		
2,200.00	2,190.70	2,181.15	2,169.12	7.86	8.00	-163.24	166.22	-32.76	312.24	296.79	15.45	20.208		
2,300.00	2,289.89	2,279.06	2,266.20	8.25	8.39	-161.96	177.04	-25.98	331.28	315.09	16.19	20.466		
2,400.00	2,389.09	2,376.98	2,363.28	8.65	8.78	-160.81	187.85	-19.20	350.46	333.54	16.92	20.710		
2,500.00	2,488.29	2,474.89	2,460.36	9.05	9.17	-159.79	198.67	-12.42	369.76	352.10	17.66	20.938		
2,600.00	2,587.48	2,572.81	2,557.44	9.45	9.56	-158.86	209.48	-5.64	389.17	370.77	18.40	21.154		
2,700.00	2,686.68	2,670.72	2,654.52	9.85	9.95	-158.03	220.29	1.14	408.66	389.53	19.14	21.356		
2,800.00	2,785.88	2,768.64	2,751.60	10.25	10.34	-157.27	231.11	7.93	428.23	408.36	19.88	21.546		
2,900.00	2,885.07	2,866.55	2,848.68	10.65	10.73	-156.57	241.92	14.71	447.87	427.25	20.62	21.725		
3,000.00	2,984.27	2,964.47	2,945.75	11.05	11.12	-155.94	252.73	21.49	467.56	446.21	21.36	21.894		
3,100.00	3,083.47	3,062.38	3,042.83	11.45	11.51	-155.35	263.55	28.27	487.31	465.21	22.10	22.053		
3,200.00	3,182.66	3,160.30	3,139.91	11.85	11.90	-154.81	274.36	35.05	507.10	484.26	22.84	22.204		
3,300.00	3,281.86	3,258.21	3,236.99	12.25	12.29	-154.31	285.18	41.83	526.93	503.35	23.58	22.346		
3,400.00	3,381.05	3,356.12	3,334.07	12.66	12.68	-153.85	295.99	48.62	546.79	522.47	24.32	22.481		
3,500.00	3,480.25	3,454.04	3,431.15	13.06	13.07	-153.42	306.80	55.40	566.69	541.62	25.07	22.608		
3,600.00	3,579.45	3,551.95	3,528.23	13.46	13.46	-153.02	317.62	62.18	586.62	560.81	25.81	22.729		
3,700.00	3,678.64	3,649.87	3,625.31	13.87	13.85	-152.65	328.43	68.96	606.57	580.02	26.55	22.844		
3,800.00	3,777.84	3,747.78	3,722.39	14.27	14.24	-152.30	339.25	75.74	626.54	599.25	27.30	22.953		
3,900.00	3,877.04	3,845.70	3,819.47	14.67	14.63	-151.97	350.06	82.53	646.54	618.50	28.04	23.057		
4,000.00	3,976.23	3,943.61	3,916.55	15.08	15.03	-151.66	360.87	89.31	666.56	637.77	28.79	23.156		
4,100.00	4,075.43	4,041.53	4,013.63	15.48	15.42	-151.37	371.69	96.09	686.59	657.06	29.53	23.251		
4,200.00	4,174.63	4,139.44	4,110.71	15.89	15.81	-151.09	382.50	102.87	706.64	676.36	30.27	23.341		
4,300.00	4,273.82	4,237.36	4,207.78	16.29	16.20	-150.83	393.31	109.65	726.70	695.68	31.02	23.427		
4,400.00	4,373.02	4,335.27	4,304.86	16.70	16.59	-150.59	404.13	116.43	746.78	715.01	31.77	23.509		
4,500.00	4,472.22	4,433.19	4,401.94	17.10	16.98	-150.35	414.94	123.22	766.87	734.36	32.51	23.588		
4,600.00	4,571.41	4,531.10	4,499.02	17.51	17.37	-150.13	425.76	130.00	786.97	753.71	33.26	23.663		
4,700.00	4,670.61	4,629.02	4,596.10	17.91	17.76	-149.92	436.57	136.78	807.08	773.08	34.00	23.736		
4,800.00	4,769.81	4,726.93	4,693.18	18.32	18.16	-149.72	447.38	143.56	827.21	792.46	34.75	23.805		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4D-32H-O268 - 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	
4,900.00	4,869.00	4,824.85	4,790.26	18.72	18.55	-149.53	458.20	150.34	847.34	811.84	35.50	23.872		
5,000.00	4,968.20	4,922.76	4,887.34	19.13	18.94	-149.35	469.01	157.13	867.48	831.24	36.24	23.936		
5,100.00	5,067.40	5,020.68	4,984.42	19.53	19.33	-149.18	479.82	163.91	887.63	850.64	36.99	23.997		
5,200.00	5,166.59	5,118.59	5,081.50	19.94	19.72	-149.01	490.64	170.69	907.78	870.05	37.74	24.057		
5,300.00	5,265.79	5,216.51	5,178.58	20.34	20.11	-148.85	501.45	177.47	927.94	889.46	38.48	24.114		
5,400.00	5,364.98	5,314.42	5,275.66	20.75	20.51	-148.70	512.27	184.25	948.11	908.88	39.23	24.168		
5,500.00	5,464.18	5,412.33	5,372.73	21.15	20.90	-148.56	523.08	191.03	968.29	928.31	39.98	24.221		
5,600.00	5,563.38	5,510.25	5,469.81	21.56	21.29	-148.42	533.89	197.82	988.47	947.75	40.72	24.273		
5,700.00	5,662.57	5,608.16	5,566.89	21.97	21.68	-148.28	544.71	204.60	1,008.65	967.18	41.47	24.322		
5,800.00	5,761.77	5,706.08	5,663.97	22.37	22.07	-148.16	555.52	211.38	1,028.85	986.63	42.22	24.370		
5,900.00	5,860.97	5,803.99	5,761.05	22.78	22.46	-148.03	566.34	218.16	1,049.04	1,006.08	42.97	24.416		
6,000.00	5,960.16	5,901.91	5,858.13	23.18	22.86	-147.91	577.15	224.94	1,069.24	1,025.53	43.71	24.460		
6,100.00	6,059.36	5,999.82	5,955.21	23.59	23.25	-147.80	587.96	231.72	1,089.45	1,044.99	44.46	24.503		
6,200.00	6,158.56	6,097.74	6,052.29	24.00	23.64	-147.69	598.78	238.51	1,109.66	1,064.45	45.21	24.545		
6,300.00	6,257.75	6,195.65	6,149.37	24.40	24.03	-147.58	609.59	245.29	1,129.87	1,083.91	45.96	24.585		
6,400.00	6,356.95	6,293.57	6,246.45	24.81	24.42	-147.48	620.40	252.07	1,150.09	1,103.38	46.71	24.624		
6,500.00	6,456.15	6,391.48	6,343.53	25.21	24.82	-147.38	631.22	258.85	1,170.30	1,122.85	47.45	24.662		
6,600.00	6,555.34	6,490.15	6,441.00	25.62	31.09	156.59	-521.69	338.92	1,138.58	1,120.63	17.95	63.418		
6,702.76	6,657.28	6,599.62	6,549.00	26.04	31.15	154.66	-531.17	338.82	1,038.78	1,019.90	18.88	55.029		
6,750.00	6,704.24	6,642.42	6,588.00	26.22	31.17	169.46	-533.97	338.79	992.98	973.62	19.36	51.297		
6,800.00	6,754.03	6,692.00	6,638.00	26.40	31.17	-163.62	-533.55	338.80	944.58	924.68	19.90	47.474		
6,850.00	6,803.66	6,741.09	6,685.00	26.56	31.14	-150.90	-529.64	338.84	896.52	876.05	20.47	43.789		
6,900.00	6,852.89	6,790.11	6,733.00	26.70	31.09	-148.27	-522.26	338.91	849.07	827.97	21.10	40.243		
6,950.00	6,901.49	6,839.91	6,785.00	26.83	31.02	-148.56	-511.46	339.03	802.49	780.70	21.78	36.841		
7,000.00	6,949.20	6,887.73	6,830.00	26.95	30.92	-149.42	-497.27	339.18	757.03	734.50	22.54	33.592		
7,050.00	6,995.81	6,933.23	6,875.00	27.05	30.81	-150.16	-479.78	339.36	712.97	689.60	23.37	30.507		
7,100.00	7,041.08	6,978.52	6,918.00	27.15	30.68	-150.61	-459.07	339.58	670.56	646.26	24.30	27.597		
7,150.00	7,084.79	6,963.68	6,898.00	27.23	30.53	-150.76	-435.24	339.83	630.04	604.71	25.33	24.875		
7,200.00	7,126.74	6,953.84	6,885.00	27.31	30.37	-150.60	-408.39	340.11	591.64	565.18	26.46	22.358		
7,250.00	7,166.71	6,943.12	6,875.00	27.37	30.19	-150.18	-378.68	340.42	555.60	527.90	27.70	20.056		
7,300.00	7,204.52	6,932.67	6,865.00	27.42	30.01	-149.51	-346.23	340.76	522.11	493.06	29.05	17.972		
7,350.00	7,239.97	6,922.65	6,855.00	27.47	29.83	-148.63	-311.21	341.12	491.35	460.86	30.49	16.115		
7,400.00	7,272.89	6,912.23	6,845.00	27.51	29.63	-147.56	-273.79	341.52	463.46	431.46	32.00	14.484		
7,450.00	7,303.14	6,902.59	6,835.00	27.54	29.45	-146.33	-234.15	341.93	438.55	404.99	33.56	13.069		
7,500.00	7,330.54	6,892.92	6,825.00	27.57	29.26	-144.99	-192.48	342.37	416.67	381.56	35.12	11.865		
7,550.00	7,354.98	6,882.43	6,815.00	27.60	29.08	-143.57	-148.99	342.82	397.85	361.21	36.64	10.857		
7,600.00	7,376.34	6,872.32	6,805.00	27.63	28.92	-142.13	-103.89	343.30	382.04	343.96	38.09	10.030		
7,650.00	7,394.51	6,862.83	6,795.00	27.66	28.77	-140.73	-57.40	343.78	369.17	329.76	39.40	9.369		
7,700.00	7,409.39	6,852.30	6,784.82	27.71	28.63	-139.22	-3.88	344.33	359.03	318.49	40.53	8.858		
7,750.00	7,420.93	6,842.92	6,774.42	27.77	28.48	-136.84	69.27	344.73	349.15	307.31	41.84	8.344		
7,800.00	7,429.06	6,832.69	6,764.28	27.86	28.38	-134.25	138.42	344.62	338.67	295.07	43.59	7.768		
7,850.00	7,433.75	6,822.54	6,754.42	27.97	28.32	-131.45	203.11	344.07	327.87	282.26	45.61	7.189		
7,892.48	7,435.00	6,812.83	6,744.05	28.09	28.30	-128.91	254.41	343.30	318.67	271.27	47.40	6.723		
7,900.00	7,435.00	6,802.37	6,734.77	28.12	28.30	-128.32	263.13	343.14	317.03	269.31	47.72	6.644		
8,000.00	7,435.00	6,792.17	6,723.05	28.50	28.28	-119.04	364.87	340.52	293.19	241.10	52.09	5.629		
8,100.00	7,435.00	6,782.50	6,713.55	28.99	28.26	-107.78	441.91	337.44	271.32	215.57	55.75	4.867		
8,200.00	7,435.00	6,772.41	6,703.16	29.57	28.24	-96.20	498.77	334.37	260.75	203.23	57.52	4.533		
8,209.57	7,435.00	6,762.75	6,693.32	29.63	28.23	-95.13	503.34	334.09	260.66	203.10	57.56	4.528 SF		
8,300.00	7,435.00	6,752.87	6,683.37	30.22	28.20	-85.74	540.51	331.53	269.47	212.59	56.88	4.737		
8,400.00	7,435.00	6,742.00	6,672.27	30.94	28.16	-76.58	573.03	328.84	300.11	245.37	54.74	5.482		
8,500.00	7,435.00	6,731.09	6,661.70	31.72	28.12	-70.18	594.51	326.76	349.52	296.59	52.94	6.603		
8,600.00	7,435.00	6,720.40	6,650.71	32.56	28.08	-64.79	612.10	324.81	412.61	360.86	51.75	7.974		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4D-32H-O268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
8,700.00	7,435.00	7,350.00	7,285.05	33.44	28.05	-61.33	623.23	323.44	485.07	433.68	51.39	9.439		
8,800.00	7,435.00	7,318.77	7,256.78	34.38	28.01	-57.19	636.38	321.64	563.77	512.77	51.00	11.055		
8,900.00	7,435.00	7,300.00	7,239.53	35.36	27.98	-54.87	643.69	320.53	646.96	595.86	51.10	12.660		
9,000.00	7,435.00	7,277.75	7,218.83	36.38	27.94	-52.27	651.76	319.19	733.29	682.16	51.13	14.342		
9,100.00	7,435.00	7,250.00	7,192.70	37.43	27.90	-49.27	660.92	317.49	822.14	771.09	51.05	16.104		
9,200.00	7,435.00	7,250.00	7,192.70	38.52	27.90	-49.27	660.92	317.49	912.47	860.97	51.51	17.715		
9,300.00	7,435.00	7,233.44	7,176.94	39.64	27.86	-47.60	665.89	316.46	1,004.32	952.72	51.61	19.461		
9,400.00	7,435.00	7,221.85	7,165.84	40.79	27.84	-46.48	669.16	315.73	1,097.29	1,045.53	51.76	21.198		
9,500.00	7,435.00	7,200.00	7,144.79	41.97	27.79	-44.48	674.83	314.35	1,191.29	1,139.52	51.77	23.012		
9,600.00	7,435.00	7,200.00	7,144.79	43.17	27.79	-44.48	674.83	314.35	1,285.73	1,233.71	52.02	24.716		
9,700.00	7,435.00	7,200.00	7,144.79	44.39	27.79	-44.48	674.83	314.35	1,380.96	1,328.73	52.23	26.440		
9,800.00	7,435.00	7,200.00	7,144.79	45.64	27.79	-44.48	674.83	314.35	1,476.81	1,424.41	52.41	28.181		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4E-32H-O268 - 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	-89.66	0.72	-120.03	120.03					
100.00	100.00	100.00	100.00	0.14	0.14	-89.66	0.72	-120.03	120.03	119.75	0.28	434.856		
200.00	200.00	200.00	200.00	0.50	0.50	-89.66	0.72	-120.03	120.03	119.04	0.99	120.881		
300.00	300.00	300.00	300.00	0.85	0.85	-89.66	0.72	-120.03	120.03	118.32	1.71	70.197		
400.00	400.00	400.00	400.00	1.21	1.21	-89.66	0.72	-120.03	120.03	117.60	2.43	49.459		
500.00	500.00	500.00	500.00	1.57	1.57	-89.66	0.72	-120.03	120.03	116.89	3.14	38.180		
600.00	600.00	600.00	600.00	1.93	1.93	-89.66	0.72	-120.03	120.03	116.17	3.86	31.090		
700.00	700.00	702.59	702.57	2.29	2.30	-88.96	2.16	-118.89	118.94	114.35	4.59	25.918		
800.00	800.00	804.92	804.75	2.65	2.66	-86.79	6.48	-115.50	115.78	110.46	5.32	21.767		
900.00	899.98	906.68	906.09	2.99	3.03	140.30	13.61	-109.90	112.24	106.21	6.03	18.612		
993.33	993.19	1,000.77	999.46	3.30	3.38	147.07	22.73	-102.74	110.81	104.13	6.68	16.583		
1,000.00	999.84	1,007.44	1,006.07	3.33	3.40	147.64	23.46	-102.16	110.82	104.09	6.73	16.470		
1,100.00	1,099.45	1,106.05	1,103.59	3.67	3.77	156.70	34.93	-93.16	113.79	106.36	7.43	15.307		
1,163.41	1,162.43	1,168.15	1,165.01	3.89	4.01	162.37	42.18	-87.46	118.83	110.94	7.89	15.058		
1,200.00	1,198.73	1,203.94	1,200.40	4.02	4.15	165.47	46.36	-84.18	122.64	114.48	8.16	15.034		
1,300.00	1,297.93	1,301.73	1,297.11	4.39	4.53	173.01	57.78	-75.21	134.72	125.84	8.89	15.163		
1,400.00	1,397.13	1,399.53	1,393.82	4.76	4.92	179.26	69.20	-66.24	148.77	139.16	9.62	15.470		
1,500.00	1,496.32	1,497.32	1,490.53	5.13	5.30	-175.61	80.62	-57.27	164.28	153.93	10.35	15.872		
1,600.00	1,595.52	1,595.12	1,587.24	5.51	5.69	-171.37	92.04	-48.30	180.87	169.79	11.09	16.317		
1,700.00	1,694.71	1,692.91	1,683.95	5.90	6.09	-167.84	103.46	-39.33	198.28	186.46	11.82	16.773		
1,800.00	1,793.91	1,790.71	1,780.66	6.29	6.48	-164.89	114.88	-30.36	216.30	203.74	12.56	17.223		
1,900.00	1,893.11	1,888.50	1,877.37	6.68	6.88	-162.40	126.30	-21.39	234.80	221.50	13.30	17.657		
2,000.00	1,992.30	1,986.30	1,974.08	7.07	7.27	-160.27	137.72	-12.42	253.67	239.63	14.04	18.069		
2,100.00	2,091.50	2,084.09	2,070.79	7.46	7.67	-158.43	149.14	-3.45	272.83	258.05	14.78	18.459		
2,200.00	2,190.70	2,181.89	2,167.51	7.86	8.07	-156.83	160.56	5.52	292.23	276.71	15.52	18.825		
2,300.00	2,289.89	2,279.68	2,264.22	8.25	8.47	-155.44	171.98	14.49	311.82	295.55	16.27	19.168		
2,400.00	2,389.09	2,377.48	2,360.93	8.65	8.86	-154.21	183.40	23.46	331.57	314.56	17.01	19.489		
2,500.00	2,488.29	2,475.27	2,457.64	9.05	9.26	-153.11	194.82	32.43	351.45	333.69	17.76	19.789		
2,600.00	2,587.48	2,573.07	2,554.35	9.45	9.66	-152.13	206.24	41.40	371.44	352.93	18.51	20.070		
2,700.00	2,686.68	2,670.86	2,651.06	9.85	10.07	-151.26	217.66	50.37	391.52	372.27	19.26	20.333		
2,800.00	2,785.88	2,768.66	2,747.77	10.25	10.47	-150.47	229.08	59.34	411.69	391.68	20.00	20.579		
2,900.00	2,885.07	2,866.45	2,844.48	10.65	10.87	-149.75	240.50	68.31	431.92	411.16	20.75	20.811		
3,000.00	2,984.27	2,964.25	2,941.19	11.05	11.27	-149.09	251.92	77.28	452.21	430.70	21.51	21.028		
3,100.00	3,083.47	3,062.04	3,037.90	11.45	11.67	-148.50	263.34	86.25	472.55	450.29	22.26	21.232		
3,200.00	3,182.66	3,159.84	3,134.61	11.85	12.07	-147.95	274.76	95.22	492.94	469.93	23.01	21.425		
3,300.00	3,281.86	3,257.63	3,231.32	12.25	12.47	-147.44	286.18	104.19	513.37	489.61	23.76	21.606		
3,400.00	3,381.05	3,355.43	3,328.03	12.66	12.88	-146.98	297.60	113.16	533.83	509.32	24.51	21.778		
3,500.00	3,480.25	3,453.22	3,424.74	13.06	13.28	-146.55	309.02	122.13	554.32	529.06	25.27	21.940		
3,600.00	3,579.45	3,551.02	3,521.46	13.46	13.68	-146.15	320.44	131.10	574.85	548.83	26.02	22.093		
3,700.00	3,678.64	3,648.81	3,618.17	13.87	14.08	-145.77	331.86	140.07	595.40	568.62	26.77	22.239		
3,800.00	3,777.84	3,746.61	3,714.88	14.27	14.49	-145.42	343.28	149.04	615.97	588.44	27.53	22.377		
3,900.00	3,877.04	3,844.40	3,811.59	14.67	14.89	-145.10	354.71	158.01	636.56	608.28	28.28	22.508		
4,000.00	3,976.23	3,942.20	3,908.30	15.08	15.29	-144.79	366.13	166.98	657.17	628.13	29.04	22.633		
4,100.00	4,075.43	4,039.99	4,005.01	15.48	15.70	-144.50	377.55	175.95	677.79	648.00	29.79	22.751		
4,200.00	4,174.63	4,137.79	4,101.72	15.89	16.10	-144.23	388.97	184.92	698.43	667.89	30.55	22.865		
4,300.00	4,273.82	4,235.58	4,198.43	16.29	16.50	-143.98	400.39	193.89	719.09	687.79	31.30	22.973		
4,400.00	4,373.02	4,333.38	4,295.14	16.70	16.91	-143.74	411.81	202.86	739.76	707.70	32.06	23.076		
4,500.00	4,472.22	4,431.17	4,391.85	17.10	17.31	-143.51	423.23	211.83	760.44	727.63	32.81	23.175		
4,600.00	4,571.41	4,528.97	4,488.56	17.51	17.71	-143.30	434.65	220.80	781.13	747.56	33.57	23.269		
4,700.00	4,670.61	4,626.76	4,585.27	17.91	18.12	-143.09	446.07	229.77	801.83	767.50	34.33	23.359		
4,800.00	4,769.81	4,724.56	4,681.98	18.32	18.52	-142.90	457.49	238.74	822.54	787.46	35.08	23.446		
4,900.00	4,869.00	4,822.35	4,778.69	18.72	18.92	-142.71	468.91	247.71	843.26	807.42	35.84	23.529		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4E-32H-O268 - 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	4,968.20	4,920.15	4,875.40	19.13	19.33	-142.54	480.33	256.68	863.99	827.39	36.60	23.609	
5,100.00	5,067.40	5,017.94	4,972.12	19.53	19.73	-142.37	491.75	265.65	884.72	847.37	37.35	23.686	
5,200.00	5,166.59	5,115.74	5,068.83	19.94	20.13	-142.21	503.17	274.62	905.46	867.35	38.11	23.759	
5,300.00	5,265.79	5,213.53	5,165.54	20.34	20.54	-142.06	514.59	283.59	926.21	887.34	38.87	23.830	
5,400.00	5,364.98	5,311.32	5,262.25	20.75	20.94	-141.91	526.01	292.56	946.96	907.34	39.62	23.898	
5,500.00	5,464.18	5,409.12	5,358.96	21.15	21.35	-141.77	537.43	301.53	967.72	927.34	40.38	23.964	
5,600.00	5,563.38	5,506.91	5,455.67	21.56	21.75	-141.64	548.85	310.50	988.49	947.35	41.14	24.028	
5,700.00	5,662.57	5,604.71	5,552.38	21.97	22.15	-141.51	560.27	319.47	1,009.26	967.36	41.90	24.089	
5,800.00	5,761.77	5,702.50	5,649.09	22.37	22.56	-141.39	571.69	328.44	1,030.03	987.38	42.66	24.148	
5,900.00	5,860.97	5,800.30	5,745.80	22.78	22.96	-141.27	583.11	337.41	1,050.81	1,007.40	43.41	24.205	
6,000.00	5,960.16	5,898.09	5,842.51	23.18	23.37	-141.16	594.53	346.38	1,071.59	1,027.42	44.17	24.260	
6,100.00	6,059.36	5,995.89	5,939.22	23.59	23.77	-141.05	605.95	355.35	1,092.38	1,047.45	44.93	24.313	
6,200.00	6,158.56	6,093.68	6,035.93	24.00	24.17	-140.94	617.37	364.32	1,113.17	1,067.48	45.69	24.365	
6,300.00	6,257.75	6,191.48	6,133.64	24.40	24.58	-140.84	628.79	373.29	1,133.96	1,087.52	46.45	24.415	
6,400.00	6,356.95	6,291.39	6,233.64	24.81	30.37	-176.06	-504.75	476.45	1,098.12	1,083.98	14.14	77.654	
6,500.00	6,456.15	6,424.57	6,392.00	25.21	30.44	-178.76	-513.93	476.31	998.86	984.41	14.45	69.112	
6,600.00	6,555.34	6,523.75	6,491.00	25.62	30.50	178.22	-523.11	476.17	899.67	884.86	14.81	60.731	
6,702.76	6,657.28	6,625.18	6,592.00	26.04	30.57	174.76	-532.54	476.03	797.84	782.58	15.26	52.286	
6,750.00	6,704.24	6,672.00	6,639.00	26.22	30.58	176.63	-535.32	475.99	750.98	735.49	15.49	48.485	
6,800.00	6,754.03	6,721.50	6,688.00	26.40	30.58	-173.74	-534.88	475.99	701.33	685.59	15.74	44.562	
6,850.00	6,803.66	6,771.00	6,738.00	26.56	30.55	-169.22	-530.95	476.05	651.90	635.90	16.00	40.744	
6,900.00	6,852.89	6,820.00	6,787.00	26.70	30.50	-168.28	-523.55	476.16	602.94	586.65	16.29	37.019	
6,950.00	6,901.49	6,868.50	6,835.00	26.83	30.43	-167.96	-512.73	476.33	554.69	538.08	16.62	33.379	
7,000.00	6,949.20	6,916.00	6,883.00	26.95	30.33	-167.56	-498.53	476.54	507.43	490.42	17.02	29.821	
7,050.00	6,995.81	6,962.50	6,929.00	27.05	30.21	-166.96	-481.02	476.81	461.41	443.90	17.51	26.349	
7,100.00	7,041.08	7,007.50	6,974.00	27.15	30.08	-166.11	-460.28	477.12	416.88	398.74	18.14	22.978	
7,150.00	7,084.79	7,051.00	7,017.00	27.23	29.93	-164.99	-436.43	477.48	374.11	355.15	18.96	19.736	
7,200.00	7,126.74	7,092.50	7,058.00	27.31	29.76	-163.56	-409.57	477.89	333.37	313.36	20.01	16.658	
7,250.00	7,166.71	7,132.00	7,097.00	27.37	29.58	-161.75	-379.83	478.34	294.93	273.55	21.39	13.791	
7,300.00	7,204.52	7,169.50	7,134.00	27.42	29.39	-159.49	-347.37	478.83	259.09	235.92	23.17	11.182	
7,350.00	7,239.97	7,204.50	7,169.00	27.47	29.19	-156.69	-312.34	479.36	226.14	200.69	25.45	8.884	
7,400.00	7,272.89	7,237.00	7,201.00	27.51	28.99	-153.22	-274.90	479.92	196.43	168.09	28.34	6.932	
7,450.00	7,303.14	7,267.00	7,231.00	27.54	28.80	-148.97	-235.25	480.52	170.29	138.42	31.88	5.342	
7,500.00	7,330.54	7,293.50	7,257.00	27.57	28.60	-143.81	-193.57	481.15	148.09	112.06	36.03	4.110	
7,550.00	7,354.98	7,317.50	7,280.00	27.60	28.41	-137.72	-150.06	481.81	130.11	89.50	40.61	3.204	
7,600.00	7,376.34	7,338.50	7,300.00	27.63	28.24	-130.84	-104.95	482.49	116.51	71.35	45.16	2.580	
7,650.00	7,394.51	7,356.00	7,317.00	27.66	28.09	-123.54	-58.45	483.19	107.12	57.98	49.14	2.180	
7,700.00	7,409.39	7,370.50	7,331.00	27.71	27.98	-116.31	-10.20	483.91	101.39	49.28	52.11	1.946	
7,750.00	7,420.93	7,381.00	7,341.00	27.77	27.90	-108.54	39.78	484.44	97.94	43.67	54.27	1.805	
7,800.00	7,429.06	7,388.50	7,347.00	27.86	27.87	-100.47	88.49	484.64	96.49	40.96	55.52	1.738	
7,810.29	7,430.31	7,389.68	7,348.68	27.88	27.87	-98.79	98.33	484.65	96.44	40.80	55.64	1.733 CC, ES, SF	
7,850.00	7,433.75	7,393.00	7,352.00	27.97	27.87	-92.40	135.76	484.54	97.09	41.40	55.69	1.743	
7,892.48	7,435.00	7,394.00	7,353.00	28.09	27.88	-85.79	174.72	484.24	99.15	44.10	55.05	1.801	
7,900.00	7,435.00	7,394.00	7,353.00	28.12	27.88	-84.68	181.49	484.16	99.66	44.79	54.87	1.816	
8,000.00	7,435.00	7,394.00	7,353.00	28.50	27.92	-68.97	265.48	482.66	113.05	62.66	50.39	2.243	
8,100.00	7,435.00	7,394.00	7,353.00	28.99	27.95	-54.85	337.42	480.45	141.57	97.10	44.46	3.184	
8,200.00	7,435.00	7,394.00	7,353.00	29.57	27.97	-44.47	397.32	477.84	184.81	143.89	40.91	4.517	
8,300.00	7,435.00	7,394.00	7,353.00	30.22	27.98	-37.36	446.33	475.08	239.63	199.50	40.14	5.971	
8,400.00	7,435.00	7,394.00	7,353.00	30.94	27.98	-32.50	486.07	472.34	303.10	262.25	40.85	7.419	
8,500.00	7,435.00	7,394.00	7,353.00	31.72	27.97	-29.08	518.22	469.71	373.06	330.96	42.10	8.861	
8,600.00	7,435.00	7,394.00	7,353.00	32.56	27.95	-26.60	544.27	467.25	448.00	404.57	43.43	10.316	
8,700.00	7,435.00	7,394.00	7,353.00	33.44	27.94	-25.00	562.43	465.31	526.87	481.93	44.94	11.723	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W - HWY52 4E-32H-O268 - OH - PLAN #2		Offset Site Error:		0.00 usft	
Survey Program:													0-MWD+HDGM		Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor						
8,800.00	7,435.00	7,213.51	7,125.18	34.38	27.91	-23.31	582.86	462.88	608.73	562.98	45.75	13.306						
8,900.00	7,435.00	7,186.06	7,101.86	35.36	27.89	-22.19	597.19	460.98	693.13	646.44	46.69	14.845						
9,000.00	7,435.00	7,150.00	7,070.42	36.38	27.85	-20.88	614.65	458.38	779.73	732.60	47.13	16.545						
9,100.00	7,435.00	7,150.00	7,070.42	37.43	27.85	-20.88	614.65	458.38	867.75	819.32	48.44	17.915						
9,200.00	7,435.00	7,121.04	7,044.56	38.52	27.81	-19.94	627.51	456.22	957.11	908.34	48.77	19.624						
9,300.00	7,435.00	7,100.00	7,025.46	39.64	27.78	-19.32	636.19	454.62	1,047.77	998.56	49.21	21.293						
9,400.00	7,435.00	7,100.00	7,025.46	40.79	27.78	-19.32	636.19	454.62	1,139.54	1,089.62	49.93	22.825						
9,500.00	7,435.00	7,074.19	7,001.70	41.97	27.74	-18.61	646.05	452.60	1,231.86	1,181.75	50.11	24.585						
9,600.00	7,435.00	7,050.00	6,979.12	43.17	27.70	-18.00	654.52	450.68	1,325.20	1,274.92	50.29	26.353						
9,700.00	7,435.00	7,050.00	6,979.12	44.39	27.70	-18.00	654.52	450.68	1,418.89	1,368.15	50.74	27.962						

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4F-32H-O268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-89.64	0.70	-109.96	109.96					
100.00	100.00	100.00	100.00	0.14	0.14	-89.64	0.70	-109.96	109.96	109.68	0.28	398.366		
166.67	166.67	166.67	166.67	0.38	0.38	-89.64	0.70	-109.96	109.96	109.20	0.75	145.836		
200.00	200.00	200.00	200.00	0.50	0.50	-89.64	0.70	-109.96	109.96	108.97	0.99	110.737		
200.99	200.99	200.99	200.99	0.50	0.50	-89.64	0.70	-109.96	109.96	108.96	1.00	109.949		
300.00	300.00	299.94	299.91	0.85	0.86	-88.73	2.44	-109.96	109.98	108.27	1.71	64.346		
400.00	400.00	401.52	401.37	1.21	1.23	-86.08	7.50	-109.53	109.80	107.36	2.44	45.059		
500.00	500.00	504.67	504.23	1.57	1.60	-82.30	14.35	-106.12	107.17	103.97	3.19	33.569		
600.00	600.00	607.27	606.27	1.93	1.98	-77.18	22.60	-99.34	102.07	98.12	3.95	25.837		
700.00	700.00	709.06	707.10	2.29	2.37	-70.18	32.18	-89.29	95.18	90.48	4.70	20.241		
800.00	800.00	808.71	805.40	2.65	2.76	-60.92	42.69	-76.76	88.00	82.57	5.43	16.200		
894.41	894.39	901.79	897.16	2.97	3.14	171.85	52.62	-64.79	85.05	78.93	6.12	13.906 CC		
900.00	899.98	907.30	902.60	2.99	3.16	172.47	53.21	-64.08	85.06	78.90	6.16	13.814 ES		
1,000.00	999.84	1,005.80	999.71	3.33	3.57	-176.57	63.72	-51.40	88.83	81.94	6.90	12.879		
1,100.00	1,099.45	1,104.08	1,096.62	3.67	3.98	-167.22	74.21	-38.76	99.00	91.35	7.65	12.944		
1,163.41	1,162.43	1,166.24	1,157.90	3.89	4.24	-162.53	80.84	-30.76	108.30	100.18	8.13	13.329		
1,200.00	1,198.73	1,202.07	1,193.22	4.02	4.39	-160.26	84.66	-26.15	114.33	105.93	8.40	13.613		
1,300.00	1,297.93	1,299.98	1,289.75	4.39	4.81	-155.15	95.11	-13.55	131.54	122.40	9.14	14.391		
1,400.00	1,397.13	1,397.89	1,386.29	4.76	5.22	-151.23	105.56	-0.95	149.53	139.65	9.88	15.129		
1,500.00	1,496.32	1,495.80	1,482.82	5.13	5.64	-148.16	116.00	11.64	168.07	157.44	10.63	15.812		
1,600.00	1,595.52	1,593.71	1,579.35	5.51	6.05	-145.70	126.45	24.24	186.98	175.60	11.38	16.435		
1,700.00	1,694.71	1,691.62	1,675.88	5.90	6.47	-143.69	136.90	36.84	206.16	194.03	12.13	16.999		
1,800.00	1,793.91	1,789.53	1,772.41	6.29	6.89	-142.02	147.34	49.44	225.54	212.66	12.88	17.510		
1,900.00	1,893.11	1,887.43	1,868.95	6.68	7.31	-140.62	157.79	62.03	245.08	231.45	13.64	17.973		
2,000.00	1,992.30	1,985.34	1,965.48	7.07	7.72	-139.43	168.24	74.63	264.74	250.35	14.39	18.393		
2,100.00	2,091.50	2,083.25	2,062.01	7.46	8.14	-138.40	178.68	87.23	284.50	269.35	15.15	18.775		
2,200.00	2,190.70	2,181.16	2,158.54	7.86	8.56	-137.50	189.13	99.83	304.33	288.42	15.91	19.124		
2,300.00	2,289.89	2,279.07	2,255.07	8.25	8.98	-136.71	199.58	112.43	324.23	307.55	16.68	19.442		
2,400.00	2,389.09	2,376.98	2,351.60	8.65	9.40	-136.02	210.02	125.02	344.18	326.74	17.44	19.735		
2,500.00	2,488.29	2,474.89	2,448.14	9.05	9.82	-135.40	220.47	137.62	364.17	345.97	18.21	20.004		
2,600.00	2,587.48	2,572.80	2,544.67	9.45	10.24	-134.84	230.92	150.22	384.20	365.23	18.97	20.252		
2,700.00	2,686.68	2,670.71	2,641.20	9.85	10.66	-134.34	241.36	162.82	404.26	384.52	19.74	20.481		
2,800.00	2,785.88	2,768.62	2,737.73	10.25	11.08	-133.89	251.81	175.42	424.35	403.84	20.51	20.694		
2,900.00	2,885.07	2,866.53	2,834.26	10.65	11.50	-133.48	262.26	188.01	444.46	423.18	21.27	20.891		
3,000.00	2,984.27	2,964.44	2,930.80	11.05	11.93	-133.10	272.70	200.61	464.59	442.54	22.04	21.075		
3,100.00	3,083.47	3,062.35	3,027.33	11.45	12.35	-132.76	283.15	213.21	484.73	461.92	22.81	21.247		
3,200.00	3,182.66	3,160.26	3,123.86	11.85	12.77	-132.44	293.60	225.81	504.90	481.31	23.58	21.408		
3,300.00	3,281.86	3,258.17	3,220.39	12.25	13.19	-132.15	304.04	238.40	525.07	500.72	24.36	21.559		
3,400.00	3,381.05	3,356.07	3,316.92	12.66	13.61	-131.87	314.49	251.00	545.26	520.14	25.13	21.700		
3,500.00	3,480.25	3,453.98	3,413.46	13.06	14.03	-131.62	324.94	263.60	565.46	539.56	25.90	21.833		
3,600.00	3,579.45	3,551.89	3,509.99	13.46	14.45	-131.39	335.38	276.20	585.67	559.00	26.67	21.959		
3,700.00	3,678.64	3,649.80	3,606.52	13.87	14.87	-131.17	345.83	288.80	605.89	578.45	27.44	22.077		
3,800.00	3,777.84	3,747.71	3,703.05	14.27	15.29	-130.96	356.28	301.39	626.12	597.90	28.22	22.189		
3,900.00	3,877.04	3,845.62	3,799.58	14.67	15.72	-130.77	366.72	313.99	646.35	617.36	28.99	22.295		
4,000.00	3,976.23	3,943.53	3,896.11	15.08	16.14	-130.59	377.17	326.59	666.59	636.83	29.76	22.396		
4,100.00	4,075.43	4,041.44	3,992.65	15.48	16.56	-130.42	387.62	339.19	686.84	656.30	30.54	22.491		
4,200.00	4,174.63	4,139.35	4,089.18	15.89	16.98	-130.26	398.06	351.79	707.09	675.78	31.31	22.582		
4,300.00	4,273.82	4,237.26	4,185.71	16.29	17.40	-130.11	408.51	364.38	727.35	695.26	32.09	22.668		
4,400.00	4,373.02	4,335.17	4,282.24	16.70	17.82	-129.97	418.96	376.98	747.61	714.75	32.86	22.751		
4,500.00	4,472.22	4,433.08	4,378.77	17.10	18.24	-129.83	429.40	389.58	767.87	734.24	33.64	22.829		
4,600.00	4,571.41	4,530.99	4,475.31	17.51	18.67	-129.70	439.85	402.18	788.14	753.73	34.41	22.904		
4,700.00	4,670.61	4,628.90	4,571.84	17.91	19.09	-129.58	450.30	414.77	808.41	773.23	35.19	22.976		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4F-32H-O268 - 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		
4,800.00	4,769.81	4,726.80	4,668.37	18.32	19.51	-129.47	460.74	427.37	828.69	792.73	35.96	23.044		
4,900.00	4,869.00	4,824.71	4,764.90	18.72	19.93	-129.36	471.19	439.97	848.97	812.23	36.74	23.110		
5,000.00	4,968.20	4,922.62	4,861.43	19.13	20.35	-129.25	481.64	452.57	869.25	831.74	37.51	23.173		
5,100.00	5,067.40	5,020.53	4,957.96	19.53	20.77	-129.15	492.08	465.17	889.54	851.25	38.29	23.233		
5,200.00	5,166.59	5,118.44	5,054.50	19.94	21.20	-129.05	502.53	477.76	909.83	870.76	39.06	23.291		
5,300.00	5,265.79	5,216.35	5,151.03	20.34	21.62	-128.96	512.98	490.36	930.12	890.28	39.84	23.346		
5,400.00	5,364.98	5,314.26	5,247.56	20.75	22.04	-128.87	523.42	502.96	950.41	909.79	40.62	23.400		
5,500.00	5,464.18	5,412.17	5,344.09	21.15	22.46	-128.79	533.87	515.56	970.70	929.31	41.39	23.451		
5,600.00	5,563.38	5,510.08	5,440.62	21.56	22.88	-128.71	544.32	528.16	991.00	948.83	42.17	23.501		
5,700.00	5,662.57	5,607.99	5,537.16	21.97	23.31	-128.63	554.76	540.75	1,011.30	968.35	42.95	23.548		
5,800.00	5,761.77	5,705.90	5,633.69	22.37	23.73	-128.56	565.21	553.35	1,031.60	987.87	43.72	23.594		
5,900.00	5,860.97	5,803.81	5,730.22	22.78	24.15	-128.49	575.66	565.95	1,051.90	1,007.40	44.50	23.639		
6,000.00	5,960.16	5,901.72	5,826.75	23.18	24.57	-128.42	586.10	578.55	1,072.20	1,026.92	45.28	23.682		
6,100.00	6,059.36	5,999.63	5,923.28	23.59	24.99	-128.35	596.55	591.14	1,092.50	1,046.45	46.05	23.723		
6,200.00	6,158.56	6,097.54	6,019.81	24.00	25.41	-128.29	607.00	603.74	1,112.81	1,065.98	46.83	23.763		
6,300.00	6,257.75	6,195.44	6,116.35	24.40	25.84	-128.22	617.44	616.34	1,133.12	1,085.51	47.61	23.802		
6,400.00	6,356.95	6,293.35	6,212.88	24.81	26.26	-128.16	627.89	628.94	1,153.42	1,105.04	48.38	23.839		
6,500.00	6,456.15	6,394.73	6,312.00	25.21	26.67	-128.10	638.32	639.37	1,173.81	1,125.24	49.15	23.876		
6,600.00	6,555.34	6,491.03	6,408.00	25.62	27.08	-128.03	648.75	649.80	1,194.20	1,145.63	49.92	23.913		
6,702.76	6,657.28	6,593.59	6,510.00	26.04	27.49	-127.97	659.18	660.23	1,214.59	1,166.02	50.69	23.950		
6,750.00	6,704.24	6,640.43	6,556.00	26.45	27.90	-127.90	669.61	670.66	1,234.98	1,186.41	51.46	23.987		
6,800.00	6,754.03	6,690.05	6,606.00	26.86	28.31	-127.84	680.04	681.09	1,255.37	1,206.80	52.23	24.024		
6,850.00	6,803.66	6,739.18	6,655.00	27.27	28.72	-127.77	690.47	691.52	1,275.76	1,227.19	53.00	24.061		
6,900.00	6,852.89	6,788.85	6,704.00	27.68	29.13	-127.71	700.90	701.95	1,296.15	1,247.58	53.77	24.098		
6,950.00	6,901.49	6,837.09	6,752.00	28.09	29.54	-127.64	711.33	712.38	1,316.54	1,267.97	54.54	24.135		
7,000.00	6,949.20	6,884.95	6,799.00	28.50	29.95	-127.58	721.76	722.81	1,336.93	1,288.36	55.31	24.172		
7,050.00	6,995.81	6,931.50	6,846.00	28.91	30.36	-127.51	732.19	733.24	1,357.32	1,308.75	56.08	24.209		
7,100.00	7,041.08	6,976.83	6,891.00	29.32	30.77	-127.45	742.62	743.67	1,377.71	1,329.14	56.85	24.246		
7,150.00	7,084.79	7,020.03	6,935.00	29.73	31.18	-127.38	753.05	754.10	1,398.10	1,349.53	57.62	24.283		
7,200.00	7,126.74	7,061.23	6,976.00	30.14	31.59	-127.32	763.48	764.53	1,418.49	1,369.92	58.39	24.320		
7,250.00	7,166.71	7,101.55	6,991.00	30.55	32.00	-127.25	773.91	774.96	1,438.88	1,390.31	59.16	24.357		
7,300.00	7,204.52	7,139.15	7,056.00	30.96	32.41	-127.19	784.34	785.39	1,459.27	1,410.70	59.93	24.394		
7,350.00	7,239.97	7,174.16	7,093.00	31.37	32.82	-127.12	794.77	795.82	1,479.66	1,431.09	60.70	24.431		
7,400.00	7,272.89	7,207.78	7,126.00	31.78	33.23	-127.06	805.20	806.25	1,499.05	1,451.48	61.47	24.468		
7,450.00	7,303.14	7,237.17	7,156.00	32.19	33.64	-126.99	815.63	816.68	1,519.44	1,471.87	62.24	24.505		
7,500.00	7,330.54	7,264.53	7,183.00	32.60	34.05	-126.93	826.06	827.11	1,539.83	1,492.26	63.01	24.542		
7,550.00	7,354.98	7,288.07	7,210.00	33.01	34.46	-126.86	836.49	837.54	1,560.22	1,512.65	63.78	24.579		
7,600.00	7,376.34	7,309.00	7,231.00	33.42	34.87	-126.80	846.92	847.97	1,580.61	1,533.04	64.55	24.616		
7,650.00	7,394.51	7,327.53	7,249.00	33.83	35.28	-126.73	857.35	858.40	1,601.00	1,553.43	65.32	24.653		
7,700.00	7,409.39	7,341.17	7,262.85	34.24	35.69	-126.67	867.78	868.83	1,621.39	1,573.82	66.09	24.690		
7,750.00	7,420.93	7,351.43	7,274.83	34.65	36.10	-126.60	878.21	879.26	1,641.78	1,594.21	66.86	24.727		
7,800.00	7,429.06	7,359.72	7,283.79	35.06	36.51	-126.54	888.64	889.69	1,662.17	1,614.60	67.63	24.764		
7,850.00	7,433.75	7,363.98	7,288.28	35.47	36.92	-126.47	899.07	899.12	1,682.56	1,634.99	68.40	24.801		
7,892.48	7,435.00	7,364.55	7,289.67	35.88	37.33	-126.41	909.50	909.55	1,702.95	1,655.38	69.17	24.838		
7,900.00	7,435.00	7,365.13	7,290.82	36.29	37.74	-126.34	919.93	919.98	1,723.34	1,675.77	69.94	24.875		
8,000.00	7,435.00	7,366.52	7,292.84	36.70	38.15	-126.28	930.36	930.41	1,743.73	1,696.16	70.71	24.912		
8,100.00	7,435.00	7,367.37	7,293.12	37.11	38.56	-126.21	940.79	940.84	1,764.12	1,716.55	71.48	24.949		
8,147.62	7,435.00	7,368.43	7,293.26	37.52	38.97	-126.15	951.22	951.27	1,784.51	1,736.94	72.25	24.986		
8,200.00	7,435.00	7,369.17	7,293.64	37.93	39.38	-126.08	961.65	961.70	1,804.90	1,757.33	73.02	25.023		
8,300.00	7,435.00	7,370.27	7,293.21	38.34	39.79	-126.02	972.08	972.13	1,825.29	1,777.72	73.79	25.060		
8,400.00	7,435.00	7,371.72	7,292.99	38.75	40.20	-125.95	982.51	982.56	1,845.68	1,798.11	74.56	25.097		
8,500.00	7,435.00	7,372.66	7,292.23	39.16	40.61	-125.89	992.94	992.99	1,866.07	1,818.50	75.33	25.134		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4F-32H-O268 - 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		
8,600.00	7,435.00	7,338.51	7,225.68	32.56	29.90	38.13	584.11	760.94	397.73	345.70	52.03	7.645	
8,700.00	7,435.00	7,300.00	7,192.74	33.44	29.86	33.35	603.61	756.67	475.03	423.11	51.92	9.150	
8,800.00	7,435.00	7,277.99	7,173.47	34.38	29.84	30.91	613.95	754.16	556.83	504.26	52.57	10.592	
8,900.00	7,435.00	7,250.00	7,148.53	35.36	29.80	28.10	626.22	750.93	642.02	589.20	52.81	12.156	
9,000.00	7,435.00	7,232.58	7,132.77	36.38	29.77	26.49	633.35	748.88	729.62	676.32	53.30	13.688	
9,100.00	7,435.00	7,213.98	7,115.75	37.43	29.74	24.90	640.55	746.67	819.13	765.50	53.63	15.275	
9,200.00	7,435.00	7,200.00	7,102.85	38.52	29.72	23.78	645.66	744.99	910.11	856.14	53.97	16.863	
9,300.00	7,435.00	7,182.86	7,086.90	39.64	29.68	22.49	651.57	742.92	1,002.26	948.09	54.17	18.503	
9,400.00	7,435.00	7,169.74	7,074.60	40.79	29.66	21.55	655.84	741.32	1,095.37	1,040.98	54.39	20.140	
9,500.00	7,435.00	7,150.00	7,055.95	41.97	29.62	20.24	661.83	738.90	1,189.35	1,134.88	54.46	21.837	
9,600.00	7,435.00	7,150.00	7,055.95	43.17	29.62	20.24	661.83	738.90	1,283.85	1,229.06	54.79	23.430	
9,700.00	7,435.00	7,150.00	7,055.95	44.39	29.62	20.24	661.83	738.90	1,379.13	1,324.07	55.06	25.047	
9,800.00	7,435.00	7,128.73	7,035.68	45.64	29.57	18.92	667.71	736.26	1,474.57	1,419.52	55.05	26.788	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4G-32H-O268 - 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	-89.76	0.41	-99.88	99.88				
100.00	100.00	100.00	100.00	0.14	0.14	-89.76	0.41	-99.88	99.88	99.61	0.28	361.870	
200.00	200.00	200.00	200.00	0.50	0.50	-89.76	0.41	-99.88	99.88	98.89	0.99	100.592	
300.00	300.00	300.00	300.00	0.85	0.85	-89.76	0.41	-99.88	99.88	98.17	1.71	58.415	
400.00	400.00	400.00	400.00	1.21	1.21	-89.76	0.41	-99.88	99.88	97.46	2.43	41.158	
500.00	500.00	500.00	500.00	1.57	1.57	-89.76	0.41	-99.88	99.88	96.74	3.14	31.772	
600.00	600.00	600.00	600.00	1.93	1.93	-89.76	0.41	-99.88	99.88	96.02	3.86	25.872	
700.00	700.00	700.00	700.00	2.29	2.29	-89.76	0.41	-99.88	99.88	95.31	4.58	21.820	
800.00	800.00	802.87	802.85	2.65	2.65	-89.14	1.48	-98.38	98.43	93.12	5.31	18.547	
900.00	899.98	905.48	905.30	2.99	3.02	136.25	4.67	-93.87	95.39	89.37	6.02	15.840	
1,000.00	999.84	1,007.50	1,006.91	3.33	3.39	142.12	9.95	-86.43	92.67	85.94	6.72	13.782	
1,081.88	1,081.43	1,090.37	1,089.17	3.61	3.69	149.24	15.77	-78.22	91.69	84.39	7.30	12.560 CC	
1,100.00	1,099.45	1,108.61	1,107.23	3.67	3.76	151.07	17.24	-76.15	91.75	84.33	7.43	12.353 ES	
1,163.41	1,162.43	1,172.11	1,169.98	3.89	4.00	158.07	22.86	-68.22	93.08	85.20	7.88	11.813	
1,200.00	1,198.73	1,208.53	1,205.86	4.02	4.14	162.39	26.44	-63.16	94.57	86.43	8.14	11.616	
1,300.00	1,297.93	1,306.93	1,302.46	4.39	4.53	174.30	37.30	-47.84	100.74	91.86	8.87	11.352	
1,400.00	1,397.13	1,404.51	1,398.12	4.76	4.92	-175.27	48.40	-32.18	110.74	101.11	9.62	11.506	
1,500.00	1,496.32	1,502.08	1,493.79	5.13	5.33	-166.74	59.50	-16.52	123.84	113.45	10.38	11.926	
1,600.00	1,595.52	1,599.65	1,589.46	5.51	5.74	-159.91	70.60	-0.86	139.17	128.02	11.15	12.483	
1,700.00	1,694.71	1,697.23	1,685.12	5.90	6.16	-154.48	81.70	14.81	156.08	144.16	11.91	13.100	
1,800.00	1,793.91	1,794.80	1,780.79	6.29	6.58	-150.12	92.80	30.47	174.10	161.42	12.68	13.729	
1,900.00	1,893.11	1,892.37	1,876.45	6.68	7.01	-146.58	103.90	46.13	192.93	179.48	13.45	14.345	
2,000.00	1,992.30	1,989.94	1,972.12	7.07	7.43	-143.67	115.00	61.79	212.34	198.12	14.22	14.934	
2,100.00	2,091.50	2,087.52	2,067.78	7.46	7.87	-141.25	126.10	77.46	232.20	217.21	14.99	15.491	
2,200.00	2,190.70	2,185.09	2,163.45	7.86	8.30	-139.22	137.20	93.12	252.40	236.64	15.76	16.013	
2,300.00	2,289.89	2,282.66	2,259.12	8.25	8.73	-137.48	148.30	108.78	272.86	256.32	16.54	16.501	
2,400.00	2,389.09	2,380.24	2,354.78	8.65	9.17	-135.99	159.40	124.45	293.52	276.21	17.31	16.956	
2,500.00	2,488.29	2,477.81	2,450.45	9.05	9.60	-134.69	170.50	140.11	314.36	296.27	18.09	17.381	
2,600.00	2,587.48	2,575.38	2,546.11	9.45	10.04	-133.55	181.61	155.77	335.32	316.46	18.86	17.776	
2,700.00	2,686.68	2,672.96	2,641.78	9.85	10.48	-132.55	192.71	171.43	356.40	336.76	19.64	18.145	
2,800.00	2,785.88	2,770.53	2,737.44	10.25	10.92	-131.66	203.81	187.10	377.58	357.16	20.42	18.489	
2,900.00	2,885.07	2,868.10	2,833.11	10.65	11.36	-130.86	214.91	202.76	398.83	377.63	21.20	18.811	
3,000.00	2,984.27	2,965.67	2,928.78	11.05	11.80	-130.15	226.01	218.42	420.15	398.17	21.98	19.112	
3,100.00	3,083.47	3,063.25	3,024.44	11.45	12.24	-129.50	237.11	234.08	441.52	418.76	22.76	19.395	
3,200.00	3,182.66	3,160.82	3,120.11	11.85	12.69	-128.91	248.21	249.75	462.95	439.40	23.55	19.660	
3,300.00	3,281.86	3,258.39	3,215.77	12.25	13.13	-128.38	259.31	265.41	484.41	460.08	24.33	19.910	
3,400.00	3,381.05	3,355.97	3,311.44	12.66	13.57	-127.89	270.41	281.07	505.92	480.80	25.11	20.145	
3,500.00	3,480.25	3,453.54	3,407.11	13.06	14.02	-127.44	281.51	296.74	527.45	501.55	25.90	20.366	
3,600.00	3,579.45	3,551.11	3,502.77	13.46	14.46	-127.02	292.61	312.40	549.02	522.33	26.68	20.575	
3,700.00	3,678.64	3,648.68	3,598.44	13.87	14.90	-126.64	303.71	328.06	570.61	543.14	27.47	20.773	
3,800.00	3,777.84	3,746.26	3,694.10	14.27	15.35	-126.28	314.81	343.72	592.22	563.97	28.25	20.961	
3,900.00	3,877.04	3,843.83	3,789.77	14.67	15.79	-125.95	325.91	359.39	613.85	584.81	29.04	21.138	
4,000.00	3,976.23	3,941.40	3,885.43	15.08	16.24	-125.64	337.01	375.05	635.50	605.68	29.83	21.307	
4,100.00	4,075.43	4,038.98	3,981.10	15.48	16.68	-125.36	348.12	390.71	657.17	626.56	30.61	21.467	
4,200.00	4,174.63	4,136.55	4,076.77	15.89	17.13	-125.09	359.22	406.37	678.85	647.45	31.40	21.620	
4,300.00	4,273.82	4,234.12	4,172.43	16.29	17.57	-124.83	370.32	422.04	700.55	668.36	32.19	21.765	
4,400.00	4,373.02	4,331.70	4,268.10	16.70	18.02	-124.60	381.42	437.70	722.25	689.28	32.97	21.903	
4,500.00	4,472.22	4,429.27	4,363.76	17.10	18.47	-124.37	392.52	453.36	743.97	710.21	33.76	22.035	
4,600.00	4,571.41	4,526.84	4,459.43	17.51	18.91	-124.16	403.62	469.02	765.70	731.15	34.55	22.162	
4,700.00	4,670.61	4,624.41	4,555.09	17.91	19.36	-123.96	414.72	484.69	787.44	752.10	35.34	22.282	
4,800.00	4,769.81	4,721.99	4,650.76	18.32	19.81	-123.77	425.82	500.35	809.19	773.06	36.13	22.398	
4,900.00	4,869.00	4,819.56	4,746.43	18.72	20.25	-123.59	436.92	516.01	830.94	794.03	36.92	22.509	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4G-32H-O268 - 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	4,968.20	4,917.13	4,842.09	19.13	20.70	-123.42	448.02	531.68	852.71	815.00	37.71	22.615	
5,100.00	5,067.40	5,014.71	4,937.76	19.53	21.15	-123.26	459.12	547.34	874.47	835.98	38.49	22.717	
5,200.00	5,166.59	5,112.28	5,033.42	19.94	21.59	-123.11	470.22	563.00	896.25	856.97	39.28	22.815	
5,300.00	5,265.79	5,209.85	5,129.09	20.34	22.04	-122.96	481.32	578.66	918.03	877.96	40.07	22.909	
5,400.00	5,364.98	5,307.42	5,224.75	20.75	22.49	-122.82	492.42	594.33	939.82	898.95	40.86	22.999	
5,500.00	5,464.18	5,405.00	5,320.42	21.15	22.93	-122.69	503.52	609.99	961.61	919.96	41.65	23.086	
5,600.00	5,563.38	5,502.57	5,416.09	21.56	23.38	-122.56	514.63	625.65	983.40	940.96	42.44	23.170	
5,700.00	5,662.57	5,600.14	5,511.75	21.97	23.83	-122.44	525.73	641.31	1,005.21	961.97	43.23	23.251	
5,800.00	5,761.77	5,697.72	5,607.42	22.37	24.27	-122.33	536.83	656.98	1,027.01	982.99	44.02	23.329	
5,900.00	5,860.97	5,795.29	5,703.08	22.78	24.72	-122.21	547.93	672.64	1,048.82	1,004.01	44.81	23.404	
6,000.00	5,960.16	5,892.86	5,798.75	23.18	25.17	-122.11	559.03	688.30	1,070.63	1,025.03	45.60	23.477	
6,100.00	6,059.36	5,990.44	5,894.41	23.59	25.62	-122.00	570.13	703.97	1,092.45	1,046.05	46.39	23.547	
6,200.00	6,158.56	6,088.01	5,990.08	24.00	26.06	-121.91	581.23	719.63	1,114.27	1,067.08	47.18	23.615	
6,300.00	6,257.75	6,185.58	6,085.75	24.40	26.51	-121.81	592.33	735.29	1,136.09	1,088.11	47.98	23.681	
6,400.00	6,356.95	6,283.15	6,181.41	24.81	26.96	-121.72	603.43	750.95	1,157.91	1,109.15	48.77	23.744	
6,500.00	6,456.15	6,380.73	6,277.08	25.21	27.41	-121.63	614.53	766.62	1,179.74	1,130.18	49.56	23.806	
6,600.00	6,555.34	6,478.30	6,372.74	25.62	27.86	-121.55	625.63	782.28	1,201.57	1,151.22	50.35	23.865	
6,702.76	6,657.28	6,728.25	7,685.00	26.04	32.87	-60.58	-532.75	997.12	1,146.03	1,122.88	23.15	49.506	
6,750.00	6,704.24	8,731.09	7,685.00	26.22	32.89	-21.01	-535.60	997.12	1,102.23	1,078.37	23.86	46.198	
6,800.00	6,754.03	8,730.72	7,685.00	26.40	32.89	30.75	-535.22	997.12	1,056.06	1,031.41	24.64	42.852	
6,850.00	6,803.66	8,726.85	7,685.00	26.56	32.86	64.39	-531.36	997.12	1,010.34	984.87	25.47	39.669	
6,900.00	6,852.89	8,719.53	7,685.00	26.70	32.82	83.38	-524.03	997.12	965.33	938.99	26.34	36.649	
6,950.00	6,901.49	8,708.77	7,685.00	26.83	32.76	95.44	-513.28	997.12	921.29	894.03	27.26	33.796	
7,000.00	6,949.20	8,694.64	7,685.00	26.95	32.68	103.75	-499.14	997.12	878.47	850.23	28.24	31.111	
7,050.00	6,995.81	8,677.19	7,685.00	27.05	32.58	109.73	-481.70	997.12	837.12	807.84	29.27	28.595	
7,100.00	7,041.08	8,656.53	7,685.00	27.15	32.47	114.11	-461.03	997.12	797.46	767.09	30.37	26.259	
7,150.00	7,084.79	8,632.74	7,685.00	27.23	32.35	117.31	-437.24	997.12	759.70	728.19	31.52	24.106	
7,200.00	7,126.74	8,605.94	7,685.00	27.31	32.22	119.63	-410.45	997.12	724.06	691.35	32.71	22.137	
7,250.00	7,166.71	8,576.27	7,685.00	27.37	32.08	121.26	-380.78	997.12	690.68	656.74	33.95	20.345	
7,300.00	7,204.52	8,543.87	7,685.00	27.42	31.95	122.35	-348.37	997.12	659.73	624.51	35.22	18.734	
7,350.00	7,239.97	8,508.89	7,685.00	27.47	31.83	122.99	-313.39	997.12	631.30	594.81	36.48	17.303	
7,400.00	7,272.89	8,471.51	7,685.00	27.51	31.71	123.29	-276.01	997.12	605.46	567.71	37.76	16.036	
7,450.00	7,303.14	8,431.91	7,685.00	27.54	31.61	123.31	-236.41	997.12	582.26	543.27	38.99	14.933	
7,500.00	7,330.54	8,390.27	7,685.00	27.57	31.54	123.13	-194.78	997.12	561.69	521.52	40.17	13.983	
7,550.00	7,354.98	8,346.82	7,685.00	27.60	31.48	122.80	-151.32	997.12	543.71	502.43	41.28	13.171	
7,600.00	7,376.34	8,301.75	7,685.00	27.63	31.45	122.40	-106.25	997.12	528.26	485.98	42.28	12.494	
7,650.00	7,394.51	8,255.28	7,685.00	27.66	31.43	121.97	-59.79	997.12	515.24	472.06	43.18	11.933	
7,700.00	7,409.39	8,196.04	7,684.59	27.71	31.44	121.28	-0.55	997.05	504.41	460.46	43.95	11.478	
7,750.00	7,420.93	8,108.00	7,676.30	27.77	31.49	119.62	87.03	995.70	492.92	447.89	45.04	10.945	
7,800.00	7,429.06	8,025.37	7,658.93	27.86	31.55	117.72	167.72	992.86	480.04	433.55	46.50	10.324	
7,850.00	7,433.75	7,948.03	7,634.47	27.97	31.62	115.62	240.94	988.85	466.17	418.04	48.13	9.686	
7,892.48	7,435.00	7,886.25	7,609.42	28.09	31.66	113.69	297.25	984.75	453.90	404.36	49.54	9.162	
7,900.00	7,435.00	7,875.69	7,604.66	28.12	31.67	113.17	306.64	983.97	451.68	401.90	49.79	9.072	
8,000.00	7,435.00	7,750.69	7,538.32	28.50	31.73	105.13	411.83	973.11	419.59	366.60	52.98	7.919	
8,100.00	7,435.00	7,652.23	7,473.95	28.99	31.73	96.02	485.49	962.57	387.85	332.18	55.67	6.967	
8,200.00	7,435.00	7,575.37	7,417.14	29.57	31.70	87.15	536.36	953.27	364.08	306.41	57.68	6.313	
8,297.49	7,435.00	7,516.34	7,370.05	30.20	31.66	79.47	571.07	945.56	355.27	296.32	58.95	6.026	
8,300.00	7,435.00	7,514.99	7,368.94	30.22	31.65	79.28	571.82	945.38	355.28	296.30	58.98	6.024 SF	
8,400.00	7,435.00	7,466.95	7,328.58	30.94	31.60	72.70	597.02	938.77	365.98	306.38	59.60	6.141	
8,500.00	7,435.00	7,428.13	7,294.81	31.72	31.55	67.32	615.34	933.24	396.73	337.00	59.73	6.642	
8,600.00	7,435.00	7,400.00	7,269.75	32.56	31.51	63.47	627.44	929.14	444.68	384.91	59.77	7.440	
8,700.00	7,435.00	7,369.80	7,242.35	33.44	31.45	59.43	639.31	924.65	505.67	446.20	59.47	8.503	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4G-32H-O268 - 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
8,800.00	7,435.00	7,350.00	7,224.13	34.38	31.41	56.85	646.46	921.67	576.09	516.69	59.40	9.698	
8,900.00	7,435.00	7,328.42	7,204.06	35.36	31.37	54.13	653.66	918.38	653.18	593.97	59.21	11.031	
9,000.00	7,435.00	7,312.02	7,188.66	36.38	31.33	52.12	658.72	915.86	735.05	675.92	59.14	12.430	
9,100.00	7,435.00	7,300.00	7,177.31	37.43	31.31	50.69	662.20	914.00	820.41	761.28	59.13	13.875	
9,200.00	7,435.00	7,285.23	7,163.28	38.52	31.27	48.97	666.22	911.71	908.35	849.31	59.04	15.386	
9,300.00	7,435.00	7,274.16	7,152.72	39.64	31.24	47.72	669.03	909.98	998.26	939.25	59.01	16.917	
9,400.00	7,435.00	7,250.00	7,129.52	40.79	31.18	45.10	674.60	906.18	1,089.92	1,031.16	58.77	18.546	
9,500.00	7,435.00	7,250.00	7,129.52	41.97	31.18	45.10	674.60	906.18	1,182.37	1,123.48	58.90	20.076	
9,600.00	7,435.00	7,250.00	7,129.52	43.17	31.18	45.10	674.60	906.18	1,275.96	1,216.97	58.99	21.630	
9,700.00	7,435.00	7,250.00	7,129.52	44.39	31.18	45.10	674.60	906.18	1,370.45	1,311.39	59.06	23.204	
9,800.00	7,435.00	7,250.00	7,129.52	45.64	31.18	45.10	674.60	906.18	1,465.68	1,406.56	59.11	24.794	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4H-32H-O268 - 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	0.40	-89.81	89.81				
100.00	100.00	100.00	100.00	0.14	0.14	-89.75	0.40	-89.81	89.81	89.54	0.28	325.379	
200.00	200.00	200.00	200.00	0.50	0.50	-89.75	0.40	-89.81	89.81	88.82	0.99	90.449	
300.00	300.00	300.00	300.00	0.85	0.85	-89.75	0.40	-89.81	89.81	88.10	1.71	52.525	
400.00	400.00	400.00	400.00	1.21	1.21	-89.75	0.40	-89.81	89.81	87.39	2.43	37.008	
500.00	500.00	500.00	500.00	1.57	1.57	-89.75	0.40	-89.81	89.81	86.67	3.14	28.568	
600.00	600.00	600.00	600.00	1.93	1.93	-89.75	0.40	-89.81	89.81	85.95	3.86	23.263	
700.00	700.00	702.85	702.83	2.29	2.29	-89.22	1.21	-88.15	88.21	83.61	4.59	19.205	
800.00	800.00	805.43	805.26	2.65	2.66	-87.50	3.63	-83.19	83.44	78.11	5.33	15.652	
900.00	899.98	907.53	906.94	2.99	3.03	139.38	7.63	-74.99	77.01	70.95	6.05	12.725	
1,000.00	999.84	1,008.90	1,007.51	3.33	3.40	147.77	13.17	-63.63	71.18	64.42	6.75	10.541	
1,100.00	1,099.45	1,109.30	1,106.62	3.67	3.78	160.66	20.19	-49.23	68.13	60.67	7.46	9.137	
1,110.91	1,110.30	1,120.18	1,117.32	3.71	3.83	162.30	21.04	-47.48	68.09	60.56	7.53	9.037 CC, ES	
1,163.41	1,162.43	1,172.34	1,168.54	3.89	4.04	170.63	25.38	-38.60	69.02	61.10	7.91	8.720	
1,200.00	1,198.73	1,208.49	1,203.92	4.02	4.18	176.64	28.62	-31.95	70.65	62.47	8.19	8.631 SF	
1,300.00	1,297.93	1,306.37	1,299.27	4.39	4.60	-167.38	38.32	-12.06	78.56	69.60	8.96	8.771	
1,400.00	1,397.13	1,403.65	1,393.84	4.76	5.03	-154.53	48.32	8.44	91.55	81.81	9.75	9.395	
1,500.00	1,496.32	1,500.00	1,487.51	5.13	5.47	-145.23	58.28	28.69	108.08	97.56	10.53	10.268	
1,600.00	1,595.52	1,596.72	1,581.61	5.51	5.91	-138.82	69.28	48.13	127.73	116.42	11.30	11.302	
1,700.00	1,694.71	1,693.89	1,676.16	5.90	6.37	-134.14	80.39	67.61	148.58	136.51	12.08	12.304	
1,800.00	1,793.91	1,791.06	1,770.71	6.29	6.82	-130.62	91.50	87.09	170.16	157.31	12.85	13.240	
1,900.00	1,893.11	1,888.23	1,865.25	6.68	7.28	-127.89	102.60	106.57	192.22	178.59	13.63	14.104	
2,000.00	1,992.30	1,985.40	1,959.80	7.07	7.75	-125.73	113.71	126.05	214.61	200.21	14.41	14.895	
2,100.00	2,091.50	2,082.57	2,054.35	7.46	8.21	-123.97	124.82	145.52	237.24	222.05	15.19	15.619	
2,200.00	2,190.70	2,179.75	2,148.90	7.86	8.68	-122.52	135.93	165.00	260.05	244.07	15.97	16.280	
2,300.00	2,289.89	2,276.92	2,243.45	8.25	9.15	-121.30	147.04	184.48	282.98	266.23	16.76	16.886	
2,400.00	2,389.09	2,374.09	2,338.00	8.65	9.62	-120.26	158.15	203.96	306.02	288.48	17.55	17.441	
2,500.00	2,488.29	2,471.26	2,432.55	9.05	10.10	-119.37	169.26	223.43	329.15	310.81	18.33	17.952	
2,600.00	2,587.48	2,568.43	2,527.10	9.45	10.57	-118.60	180.37	242.91	352.33	333.21	19.13	18.422	
2,700.00	2,686.68	2,665.60	2,621.65	9.85	11.05	-117.92	191.48	262.39	375.58	355.66	19.92	18.857	
2,800.00	2,785.88	2,762.77	2,716.19	10.25	11.53	-117.32	202.59	281.87	398.86	378.15	20.71	19.259	
2,900.00	2,885.07	2,859.95	2,810.74	10.65	12.00	-116.79	213.70	301.35	422.18	400.68	21.50	19.632	
3,000.00	2,984.27	2,957.12	2,905.29	11.05	12.48	-116.31	224.80	320.82	445.54	423.24	22.30	19.979	
3,100.00	3,083.47	3,054.29	2,999.84	11.45	12.96	-115.88	235.91	340.30	468.92	445.82	23.10	20.303	
3,200.00	3,182.66	3,151.46	3,094.39	11.85	13.44	-115.49	247.02	359.78	492.32	468.42	23.89	20.605	
3,300.00	3,281.86	3,248.63	3,188.94	12.25	13.92	-115.14	258.13	379.26	515.74	491.05	24.69	20.888	
3,400.00	3,381.05	3,345.80	3,283.49	12.66	14.40	-114.82	269.24	398.73	539.18	513.69	25.49	21.153	
3,500.00	3,480.25	3,442.97	3,378.04	13.06	14.88	-114.52	280.35	418.21	562.63	536.34	26.29	21.402	
3,600.00	3,579.45	3,540.15	3,472.58	13.46	15.36	-114.25	291.46	437.69	586.10	559.01	27.09	21.637	
3,700.00	3,678.64	3,637.32	3,567.13	13.87	15.84	-114.00	302.57	457.17	609.57	581.69	27.89	21.858	
3,800.00	3,777.84	3,734.49	3,661.68	14.27	16.33	-113.76	313.68	476.65	633.06	604.37	28.69	22.066	
3,900.00	3,877.04	3,831.66	3,756.23	14.67	16.81	-113.55	324.79	496.12	656.56	627.07	29.49	22.263	
4,000.00	3,976.23	3,928.83	3,850.78	15.08	17.29	-113.35	335.90	515.60	680.07	649.77	30.29	22.450	
4,100.00	4,075.43	4,026.00	3,945.33	15.48	17.77	-113.16	347.01	535.08	703.58	672.48	31.09	22.627	
4,200.00	4,174.63	4,123.17	4,039.88	15.89	18.26	-112.98	358.11	554.56	727.10	695.20	31.90	22.796	
4,300.00	4,273.82	4,220.35	4,134.43	16.29	18.74	-112.82	369.22	574.03	750.62	717.92	32.70	22.955	
4,400.00	4,373.02	4,317.52	4,228.98	16.70	19.22	-112.66	380.33	593.51	774.15	740.65	33.50	23.108	
4,500.00	4,472.22	4,414.69	4,323.52	17.10	19.71	-112.52	391.44	612.99	797.69	763.39	34.31	23.252	
4,600.00	4,571.41	4,511.86	4,418.07	17.51	20.19	-112.38	402.55	632.47	821.23	786.12	35.11	23.391	
4,700.00	4,670.61	4,609.03	4,512.62	17.91	20.67	-112.25	413.66	651.95	844.78	808.86	35.91	23.523	
4,800.00	4,769.81	4,706.20	4,607.17	18.32	21.16	-112.13	424.77	671.42	868.33	831.61	36.72	23.649	
4,900.00	4,869.00	4,803.37	4,701.72	18.72	21.64	-112.01	435.88	690.90	891.88	854.36	37.52	23.770	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4H-32H-O268 - 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	4,968.20	4,900.55	4,796.27	19.13	22.12	-111.90	446.99	710.38	915.43	877.11	38.33	23.885		
5,100.00	5,067.40	4,997.72	4,890.82	19.53	22.61	-111.80	458.10	729.86	938.99	899.86	39.13	23.996		
5,200.00	5,166.59	5,094.89	4,985.37	19.94	23.09	-111.70	469.21	749.33	962.55	922.62	39.94	24.102		
5,300.00	5,265.79	5,192.06	5,079.92	20.34	23.58	-111.60	480.31	768.81	986.12	945.38	40.74	24.204		
5,400.00	5,364.98	5,289.23	5,174.46	20.75	24.06	-111.51	491.42	788.29	1,009.68	968.14	41.55	24.302		
5,500.00	5,464.18	5,386.40	5,269.01	21.15	24.55	-111.43	502.53	807.77	1,033.25	990.90	42.35	24.397		
5,600.00	5,563.38	5,483.57	5,363.56	21.56	25.03	-111.35	513.64	827.25	1,056.82	1,013.67	43.16	24.487		
5,700.00	5,662.57	5,580.75	5,458.11	21.97	25.52	-111.27	524.75	846.72	1,080.40	1,036.43	43.96	24.575		
5,800.00	5,761.77	5,677.92	5,552.66	22.37	26.00	-111.19	535.86	866.20	1,103.97	1,059.20	44.77	24.659		
5,900.00	5,860.97	5,775.09	5,647.21	22.78	26.49	-111.12	546.97	885.68	1,127.55	1,081.97	45.58	24.740		
6,000.00	5,960.16	5,872.26	5,741.76	23.18	26.97	-111.05	558.08	905.16	1,151.13	1,104.74	46.38	24.818		
6,100.00	6,059.36	5,969.43	5,836.31	23.59	27.46	-110.98	569.19	924.64	1,174.71	1,127.52	47.19	24.894		
6,200.00	6,158.56	6,066.60	5,930.86	24.00	27.94	-110.92	580.30	944.11	1,198.29	1,150.29	48.00	24.967		
6,300.00	6,257.75	6,163.77	6,025.40	24.40	28.43	-110.86	591.41	963.59	1,221.87	1,173.07	48.80	25.037		
6,400.00	6,356.95	6,260.95	6,119.95	24.81	28.91	-110.80	602.52	983.07	1,245.45	1,195.84	49.61	25.105		
6,500.00	6,456.15	6,356.53	6,215.00	25.21	29.39	-110.74	613.63	1,002.16	1,269.99	1,219.87	50.42	25.173		
6,600.00	6,555.34	6,455.38	6,315.00	25.62	29.87	-110.68	624.74	1,021.25	1,294.57	1,244.95	51.23	25.241		
6,700.00	6,654.54	6,554.48	6,415.00	26.03	30.35	-110.62	635.85	1,040.34	1,319.15	1,270.03	52.04	25.309		
6,800.00	6,753.74	6,653.68	6,515.00	26.44	30.83	-110.56	646.96	1,059.43	1,343.73	1,295.61	52.85	25.377		
6,900.00	6,852.94	6,752.88	6,615.00	26.85	31.31	-110.50	658.07	1,078.52	1,368.31	1,321.19	53.66	25.445		
7,000.00	6,952.14	6,852.08	6,715.00	27.26	31.79	-110.44	669.18	1,097.61	1,392.89	1,346.77	54.47	25.513		
7,100.00	7,051.34	6,951.28	6,815.00	27.67	32.27	-110.38	680.29	1,116.70	1,417.47	1,372.35	55.28	25.581		
7,200.00	7,150.54	7,050.48	6,915.00	28.08	32.75	-110.32	691.40	1,135.79	1,442.05	1,397.93	56.09	25.649		
7,300.00	7,249.74	7,149.68	7,015.00	28.49	33.23	-110.26	702.51	1,154.88	1,466.63	1,423.51	56.90	25.717		
7,400.00	7,348.94	7,248.88	7,115.00	28.90	33.71	-110.20	713.62	1,173.97	1,491.21	1,449.09	57.71	25.785		
7,500.00	7,448.14	7,348.08	7,215.00	29.31	34.19	-110.14	724.73	1,193.06	1,515.79	1,474.67	58.52	25.853		
7,600.00	7,547.34	7,447.28	7,315.00	29.72	34.67	-110.08	735.84	1,212.15	1,540.37	1,500.25	59.33	25.921		
7,700.00	7,646.54	7,546.48	7,415.00	30.13	35.15	-110.02	746.95	1,231.24	1,564.95	1,525.83	60.14	25.989		
7,800.00	7,745.74	7,645.68	7,515.00	30.54	35.63	-109.96	758.06	1,250.33	1,589.53	1,551.41	60.95	26.057		
7,900.00	7,844.94	7,744.88	7,615.00	30.95	36.11	-109.90	769.17	1,269.42	1,614.11	1,576.99	61.76	26.125		
8,000.00	7,944.14	7,844.08	7,715.00	31.36	36.59	-109.84	780.28	1,288.51	1,638.69	1,602.57	62.57	26.193		
8,100.00	8,043.34	7,943.28	7,815.00	31.77	37.07	-109.78	791.39	1,307.60	1,663.27	1,628.15	63.38	26.261		
8,200.00	8,142.54	8,042.48	7,915.00	32.18	37.55	-109.72	802.50	1,326.69	1,687.85	1,653.73	64.19	26.329		
8,300.00	8,241.74	8,141.68	8,015.00	32.59	38.03	-109.66	813.61	1,345.78	1,712.43	1,679.31	65.00	26.397		
8,400.00	8,340.94	8,240.88	8,115.00	33.00	38.51	-109.60	824.72	1,364.87	1,737.01	1,704.89	65.81	26.465		
8,500.00	8,440.14	8,340.08	8,215.00	33.41	38.99	-109.54	835.83	1,383.96	1,761.59	1,730.47	66.62	26.533		
8,600.00	8,539.34	8,439.28	8,315.00	33.82	39.47	-109.48	846.94	1,403.05	1,786.17	1,756.05	67.43	26.601		
8,700.00	8,638.54	8,538.48	8,415.00	34.23	39.95	-109.42	858.05	1,422.14	1,810.75	1,781.63	68.24	26.669		
8,800.00	8,737.74	8,637.68	8,515.00	34.64	40.43	-109.36	869.16	1,441.23	1,835.33	1,807.21	69.05	26.737		
8,900.00	8,836.94	8,736.88	8,615.00	35.05	40.91	-109.30	880.27	1,460.32	1,859.91	1,832.79	69.86	26.805		
9,000.00	8,936.14	8,836.08	8,715.00	35.46	41.39	-109.24	891.38	1,479.41	1,884.49	1,858.37	70.67	26.873		
9,100.00	9,035.34	8,935.28	8,815.00	35.87	41.87	-109.18	902.49	1,498.50	1,909.07	1,883.95	71.48	26.941		
9,200.00	9,134.54	9,034.48	8,915.00	36.28	42.35	-109.12	913.60	1,517.59	1,933.65	1,909.53	72.29	27.009		
9,300.00	9,233.74	9,133.68	9,015.00	36.69	42.83	-109.06	924.71	1,536.68	1,958.23	1,935.11	73.10	27.077		
9,400.00	9,332.94	9,232.88	9,115.00	37.10	43.31	-109.00	935.82	1,555.77	1,982.81	1,960.69	73.91	27.145		
9,500.00	9,432.14	9,332.08	9,215.00	37.51	43.79	-108.94	946.93	1,574.86	2,007.39	1,986.27	74.72	27.213		
9,600.00	9,531.34	9,431.28	9,315.00	37.92	44.27	-108.88	958.04	1,593.95	2,031.97	2,011.85	75.53	27.281		
9,700.00	9,630.54	9,530.48	9,415.00	38.33	44.75	-108.82	969.15	1,613.04	2,056.55	2,037.43	76.34	27.349		
9,800.00	9,729.74	9,629.68	9,515.00	38.74	45.23	-108.76	980.26	1,632.13	2,081.13	2,062.91	77.15	27.417		
9,900.00	9,828.94	9,728.88	9,615.00	39.15	45.71	-108.70	991.37	1,651.22	2,105.71	2,088.49	77.96	27.485		
10,000.00	9,928.14	9,828.08	9,715.00	39.56	46.19	-108.64	1,002.48	1,670.31	2,130.29	2,114.07	78.77	27.553		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W - HWY52 4H-32H-O268 - 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				
8,800.00	7,435.00	7,250.00	7,073.06	34.38	33.09	57.85	589.13	1,172.84	830.71	769.92	60.79	13.665					
8,900.00	7,435.00	7,226.06	7,051.99	35.36	33.05	56.19	599.89	1,169.20	891.29	830.14	61.15	14.575					
9,000.00	7,435.00	7,200.00	7,028.68	36.38	33.00	54.39	610.80	1,165.11	957.48	896.13	61.35	15.606					
9,100.00	7,435.00	7,185.37	7,015.43	37.43	32.97	53.40	616.54	1,162.76	1,028.31	966.61	61.70	16.666					
9,200.00	7,435.00	7,168.53	7,000.05	38.52	32.94	52.26	622.81	1,160.02	1,103.07	1,041.16	61.91	17.818					
9,300.00	7,435.00	7,150.00	6,982.96	39.64	32.90	51.02	629.28	1,156.94	1,181.10	1,119.08	62.02	19.044					
9,400.00	7,435.00	7,150.00	6,982.96	40.79	32.90	51.02	629.28	1,156.94	1,261.93	1,199.56	62.38	20.231					
9,500.00	7,435.00	7,128.06	6,962.53	41.97	32.85	49.58	636.36	1,153.23	1,344.87	1,282.54	62.33	21.575					
9,600.00	7,435.00	7,117.15	6,952.29	43.17	32.82	48.87	639.65	1,151.36	1,429.83	1,367.41	62.43	22.904					

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4I-32H-O268 - 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	-89.73	0.38	-80.02	80.02	79.74	0.28	289.902	
100.00	100.00	100.00	100.00	0.14	0.14	-89.73	0.38	-80.02	80.02	79.03	0.99	80.587	
200.00	200.00	200.00	200.00	0.50	0.50	-89.73	0.38	-80.02	80.02	78.31	1.71	46.798	
300.00	300.00	300.00	300.00	0.85	0.85	-89.73	0.38	-80.02	80.02	77.59	2.43	32.973	
400.00	400.00	400.00	400.00	1.21	1.21	-89.73	0.38	-80.02	80.02	76.88	3.14	25.453	
500.00	500.00	500.00	500.00	1.57	1.57	-89.73	0.38	-80.02	80.02	74.54	3.88	20.221	
600.00	600.00	602.53	602.51	1.93	1.94	-89.14	1.18	-78.37	78.42	69.04	4.62	15.940	
700.00	700.00	704.79	704.62	2.29	2.30	-87.22	3.57	-73.43	73.67	60.61	5.36	12.299	
800.00	800.00	806.54	805.96	2.65	2.67	-83.42	7.53	-65.27	65.98	51.23	6.08	9.428	
900.00	899.98	907.57	906.20	2.99	3.04	147.23	13.00	-53.97	57.31	44.46	6.77	7.567	
1,000.00	999.84	1,007.68	1,005.03	3.33	3.43	162.17	19.95	-39.64	51.23	43.32	7.09	7.111 CC, ES	
1,044.93	1,044.63	1,052.30	1,048.89	3.48	3.61	171.08	23.53	-32.26	50.41	44.35	7.49	6.920 SF	
1,100.00	1,099.45	1,106.64	1,102.11	3.67	3.83	-177.08	28.29	-22.43	51.84	49.30	7.98	7.176	
1,163.41	1,162.43	1,168.68	1,162.62	3.89	4.10	-163.93	34.26	-10.11	57.29	53.79	8.27	7.504	
1,200.00	1,198.73	1,204.22	1,197.15	4.02	4.25	-157.18	37.94	-2.52	62.06	69.96	9.06	7.821	
1,300.00	1,297.93	1,300.94	1,290.70	4.39	4.70	-142.37	48.65	19.59	79.02	89.65	9.84	10.111	
1,400.00	1,397.13	1,397.75	1,384.26	4.76	5.16	-132.92	59.49	41.95	99.49	111.08	10.61	11.468	
1,500.00	1,496.32	1,494.56	1,477.82	5.13	5.63	-126.75	70.33	64.32	121.69	133.44	11.38	12.724	
1,600.00	1,595.52	1,591.36	1,571.39	5.51	6.11	-122.49	81.17	86.68	144.82	156.36	12.16	13.864	
1,700.00	1,694.71	1,688.17	1,664.95	5.90	6.59	-119.41	92.01	109.05	168.51	179.62	12.93	14.889	
1,800.00	1,793.91	1,784.98	1,758.51	6.29	7.08	-117.09	102.84	131.41	192.55	203.11	13.71	15.812	
1,900.00	1,893.11	1,881.79	1,852.08	6.68	7.58	-115.29	113.68	153.78	216.82	226.76	14.50	16.642	
2,000.00	1,992.30	1,978.59	1,945.64	7.07	8.07	-113.84	124.52	176.14	241.26	250.52	15.28	17.391	
2,100.00	2,091.50	2,075.40	2,039.20	7.46	8.57	-112.67	135.36	198.51	265.81	274.37	16.07	18.068	
2,200.00	2,190.70	2,172.21	2,132.77	7.86	9.08	-111.69	146.20	220.87	290.44	298.28	16.87	18.684	
2,300.00	2,289.89	2,269.02	2,226.33	8.25	9.58	-110.86	157.04	243.24	315.15	322.24	17.66	19.244	
2,400.00	2,389.09	2,365.83	2,319.89	8.65	10.08	-110.16	167.88	265.60	339.91	346.25	18.46	19.757	
2,500.00	2,488.29	2,462.63	2,413.46	9.05	10.59	-109.55	178.71	287.97	364.71	370.28	19.26	20.226	
2,600.00	2,587.48	2,559.44	2,507.02	9.45	11.10	-109.02	189.55	310.33	389.54	394.34	20.06	20.658	
2,700.00	2,686.68	2,656.25	2,600.58	9.85	11.61	-108.55	200.39	332.70	414.40	418.43	20.86	21.057	
2,800.00	2,785.88	2,753.06	2,694.15	10.25	12.12	-108.13	211.23	355.06	439.29	442.53	21.67	21.425	
2,900.00	2,885.07	2,849.87	2,787.71	10.65	12.63	-107.76	222.07	377.43	464.19	466.64	22.47	21.767	
3,000.00	2,984.27	2,946.67	2,881.27	11.05	13.14	-107.43	232.91	399.79	489.11	490.77	23.28	22.085	
3,100.00	3,083.47	3,043.48	2,974.84	11.45	13.65	-107.13	243.74	422.16	514.05	514.91	24.08	22.381	
3,200.00	3,182.66	3,140.29	3,068.40	11.85	14.17	-106.85	254.58	444.52	538.99	539.06	24.89	22.658	
3,300.00	3,281.86	3,237.10	3,161.96	12.25	14.68	-106.61	265.42	466.89	563.95	563.22	25.70	22.917	
3,400.00	3,381.05	3,333.91	3,255.53	12.66	15.19	-106.38	276.26	489.25	588.92	587.38	26.51	23.160	
3,500.00	3,480.25	3,430.71	3,349.09	13.06	15.71	-106.17	287.10	511.62	613.89	611.55	27.32	23.388	
3,600.00	3,579.45	3,527.52	3,442.65	13.46	16.22	-105.98	297.94	533.98	638.87	635.73	28.13	23.602	
3,700.00	3,678.64	3,624.33	3,536.22	13.87	16.74	-105.80	308.78	556.35	663.86	659.91	28.94	23.805	
3,800.00	3,777.84	3,721.14	3,629.78	14.27	17.25	-105.63	319.61	578.71	688.85	684.10	29.75	23.996	
3,900.00	3,877.04	3,817.95	3,723.34	14.67	17.77	-105.48	330.45	601.08	713.85	708.29	30.56	24.177	
4,000.00	3,976.23	3,914.75	3,816.91	15.08	18.29	-105.33	341.29	623.45	738.85	732.49	31.37	24.348	
4,100.00	4,075.43	4,011.56	3,910.47	15.48	18.80	-105.20	352.13	645.81	763.86	756.68	32.19	24.510	
4,200.00	4,174.63	4,108.37	4,004.03	15.89	19.32	-105.08	362.97	668.18	788.87	780.88	33.00	24.664	
4,300.00	4,273.82	4,205.18	4,097.60	16.29	19.83	-104.96	373.81	690.54	813.88	805.09	33.81	24.811	
4,400.00	4,373.02	4,301.98	4,191.16	16.70	20.35	-104.85	384.65	712.91	838.90	829.29	34.63	24.950	
4,500.00	4,472.22	4,398.79	4,284.72	17.10	20.87	-104.74	395.48	735.27	863.92	853.50	35.44	25.083	
4,600.00	4,571.41	4,495.60	4,378.29	17.51	21.38	-104.64	406.32	757.64	888.94	877.71	36.25	25.210	
4,700.00	4,670.61	4,592.41	4,471.85	17.91	21.90	-104.55	417.16	780.00	913.96	901.92	37.07	25.332	
4,800.00	4,769.81	4,689.22	4,565.41	18.32	22.42	-104.46	428.00	802.37	938.99	926.14	37.88	25.447	
4,900.00	4,869.00	4,786.02	4,658.98	18.72	22.94	-104.38	438.84	824.73	964.02				

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4I-32H-O268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference				Offset		Semi Major Axis				Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.00	4,968.20	4,882.83	4,752.54	19.13	23.45	-104.30	449.68	847.10	989.05	950.35	38.70	25.558		
5,100.00	5,067.40	4,979.64	4,846.10	19.53	23.97	-104.22	460.51	869.46	1,014.08	974.57	39.51	25.664		
5,200.00	5,166.59	5,076.45	4,939.67	19.94	24.49	-104.15	471.35	891.83	1,039.11	998.79	40.33	25.766		
5,300.00	5,265.79	5,173.26	5,033.23	20.34	25.01	-104.08	482.19	914.19	1,064.15	1,023.01	41.14	25.864		
5,400.00	5,364.98	5,270.06	5,126.79	20.75	25.52	-104.02	493.03	936.56	1,089.19	1,047.23	41.96	25.958		
5,500.00	5,464.18	5,366.87	5,220.36	21.15	26.04	-103.96	503.87	958.92	1,114.22	1,071.45	42.78	26.048		
5,600.00	5,563.38	5,463.68	5,313.92	21.56	26.56	-103.90	514.71	981.29	1,139.26	1,095.67	43.59	26.134		
5,700.00	5,662.57	5,560.49	5,407.48	21.97	27.08	-103.84	525.55	1,003.65	1,164.30	1,119.89	44.41	26.218		
5,800.00	5,761.77	5,657.30	5,501.05	22.37	27.60	-103.78	536.38	1,026.02	1,189.34	1,144.12	45.23	26.298		
5,900.00	5,860.97	5,754.10	5,594.61	22.78	28.11	-103.73	547.22	1,048.38	1,214.38	1,168.34	46.04	26.375		
6,000.00	5,960.16	5,850.91	5,688.17	23.18	28.63	-103.68	558.06	1,070.75	1,239.43	1,192.57	46.86	26.450		
6,100.00	6,059.36	5,947.72	5,781.74	23.59	29.15	-103.63	568.90	1,093.11	1,264.47	1,216.79	47.68	26.522		
6,200.00	6,158.56	6,044.53	5,875.30	24.00	29.67	-103.59	579.74	1,115.48	1,289.52	1,241.02	48.49	26.591		
6,300.00	6,257.75	6,141.34	5,968.86	24.40	30.19	-103.54	590.58	1,137.84	1,314.56	1,265.25	49.31	26.659		
6,400.00	6,356.95	6,238.14	6,062.43	24.81	30.71	-103.50	601.42	1,160.21	1,339.61	1,289.48	50.13	26.723		
6,500.00	6,456.15	6,334.95	6,155.99	25.21	31.22	-103.46	612.25	1,182.57	1,364.65	1,313.71	50.95	26.786		
6,600.00	6,555.34	6,431.76	6,249.55	25.62	31.74	-103.42	623.09	1,204.94	1,389.70	1,337.94	51.76	26.847		
6,702.76	6,657.28	6,527.03	6,349.00	26.04	32.10	-103.38	634.00	1,227.21	1,414.84	1,363.04	52.57	26.904		
6,750.00	6,704.24	6,573.83	6,398.00	26.42	32.56	-103.34	645.00	1,249.51	1,440.94	1,389.14	53.38	26.961		
6,800.00	6,754.03	6,623.62	6,500.00	26.80	33.02	-103.30	656.00	1,271.81	1,467.04	1,415.24	54.19	27.018		
6,850.00	6,803.66	6,673.41	6,550.00	27.18	33.48	-103.26	667.00	1,294.11	1,493.14	1,441.34	55.00	27.075		
6,900.00	6,852.89	6,698.10	6,560.00	27.56	33.94	-103.22	678.00	1,316.41	1,519.24	1,467.44	55.81	27.132		
6,950.00	6,901.49	6,687.29	6,560.00	27.94	34.40	-103.18	689.00	1,338.71	1,545.34	1,493.54	56.62	27.189		
7,000.00	6,949.20	6,673.11	6,560.00	28.32	34.86	-103.14	700.00	1,361.01	1,571.44	1,519.64	57.43	27.246		
7,050.00	6,995.81	6,655.61	6,560.00	28.70	35.32	-103.10	711.00	1,383.31	1,597.54	1,545.74	58.24	27.303		
7,100.00	7,041.08	6,634.89	6,560.00	29.08	35.78	-103.06	722.00	1,405.61	1,623.64	1,571.84	59.05	27.360		
7,150.00	7,084.79	6,611.05	6,560.00	29.46	36.24	-103.02	733.00	1,427.91	1,649.74	1,597.94	59.86	27.417		
7,200.00	7,126.74	6,584.21	6,560.00	29.84	36.70	-102.98	744.00	1,450.21	1,675.84	1,624.04	60.67	27.474		
7,250.00	7,166.71	6,554.48	6,560.00	30.22	37.16	-102.94	755.00	1,472.51	1,701.94	1,650.14	61.48	27.531		
7,300.00	7,204.52	6,522.03	6,560.00	30.60	37.62	-102.90	766.00	1,494.81	1,728.04	1,676.24	62.29	27.588		
7,350.00	7,239.97	6,487.01	6,560.00	30.98	38.08	-102.86	777.00	1,517.11	1,754.14	1,702.34	63.10	27.645		
7,400.00	7,272.89	6,449.58	6,560.00	31.36	38.54	-102.82	788.00	1,539.41	1,780.24	1,728.44	63.91	27.702		
7,450.00	7,303.14	6,409.94	6,560.00	31.74	39.00	-102.78	799.00	1,561.71	1,806.34	1,754.54	64.72	27.759		
7,500.00	7,330.54	6,368.26	6,560.00	32.12	39.46	-102.74	810.00	1,584.01	1,832.44	1,780.64	65.53	27.816		
7,550.00	7,354.98	6,324.77	6,560.00	32.50	39.92	-102.70	821.00	1,606.31	1,858.54	1,806.74	66.34	27.873		
7,600.00	7,376.34	6,279.66	6,560.00	32.88	40.38	-102.66	832.00	1,628.61	1,884.64	1,832.84	67.15	27.930		
7,650.00	7,394.51	6,233.16	6,560.00	33.26	40.84	-102.62	843.00	1,650.91	1,910.74	1,858.94	67.96	27.987		
7,700.00	7,409.39	6,179.51	6,559.91	33.64	41.30	-102.58	854.00	1,673.21	1,936.84	1,885.04	68.77	28.044		
7,750.00	7,420.93	6,085.38	6,552.39	34.02	41.76	-102.54	865.00	1,695.51	1,962.94	1,911.14	69.58	28.101		
7,800.00	7,429.06	6,000.00	6,534.60	34.40	42.22	-102.50	876.00	1,717.81	1,989.04	1,937.24	70.39	28.158		
7,850.00	7,433.75	6,000.00	6,508.93	34.78	42.68	-102.46	887.00	1,740.11	2,015.14	1,963.34	71.20	28.215		
7,892.48	7,435.00	6,000.00	6,482.51	35.16	43.14	-102.42	898.00	1,762.41	2,041.24	1,989.44	72.01	28.272		
7,900.00	7,435.00	6,000.00	6,477.49	35.54	43.60	-102.38	909.00	1,784.71	2,067.34	2,015.54	72.82	28.329		
8,000.00	7,435.00	6,000.00	6,407.98	35.92	44.06	-102.34	920.00	1,807.01	2,093.44	2,041.64	73.63	28.386		
8,100.00	7,435.00	6,000.00	6,341.63	36.30	44.52	-102.30	931.00	1,829.31	2,119.54	2,067.74	74.44	28.443		
8,200.00	7,435.00	6,000.00	6,284.06	36.68	44.98	-102.26	942.00	1,851.61	2,145.64	2,093.84	75.25	28.500		
8,300.00	7,435.00	6,000.00	6,235.92	37.06	45.44	-102.22	953.00	1,873.91	2,171.74	2,119.94	76.06	28.557		
8,327.50	7,435.00	6,000.00	6,224.21	37.44	45.90	-102.18	964.00	1,896.21	2,197.84	2,146.04	76.87	28.614		
8,400.00	7,435.00	6,000.00	6,196.09	37.82	46.36	-102.14	975.00	1,918.51	2,223.94	2,172.14	77.68	28.671		
8,500.00	7,435.00	6,000.00	6,163.07	38.20	46.82	-102.10	986.00	1,940.81	2,250.04	2,198.24	78.49	28.728		
8,600.00	7,435.00	6,000.00	6,132.03	38.58	47.28	-102.06	997.00	1,963.11	2,276.14	2,224.34	79.30	28.785		
8,700.00	7,435.00	6,000.00	6,112.28	38.96	47.74	-102.02	1,008.00	1,985.41	2,302.24	2,250.44	80.11	28.842		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W - HWY52 4I-32H-O268 - 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					
8,800.00	7,435.00	7,300.00	7,086.53	34.38	36.01	66.59	651.05	1,404.22	967.22	902.49	64.72	14.944						
8,900.00	7,435.00	7,288.12	7,075.56	35.36	35.97	65.87	654.80	1,401.66	1,013.28	947.59	65.69	15.425						
9,000.00	7,435.00	7,272.32	7,060.86	36.38	35.92	64.90	659.49	1,398.22	1,066.31	999.89	66.42	16.055						
9,100.00	7,435.00	7,250.00	7,039.95	37.43	35.86	63.54	665.54	1,393.31	1,125.44	1,058.57	66.87	16.831						
9,200.00	7,435.00	7,250.00	7,039.95	38.52	35.86	63.54	665.54	1,393.31	1,189.65	1,122.11	67.54	17.614						
9,300.00	7,435.00	7,250.00	7,039.95	39.64	35.86	63.54	665.54	1,393.31	1,258.54	1,190.48	68.06	18.491						
9,400.00	7,435.00	7,226.56	7,017.80	40.79	35.78	62.11	671.17	1,388.11	1,330.88	1,262.74	68.14	19.532						
9,500.00	7,435.00	7,218.14	7,009.80	41.97	35.75	61.60	673.01	1,386.23	1,406.64	1,338.29	68.35	20.579						
9,600.00	7,435.00	7,200.00	6,992.50	43.17	35.68	60.50	676.65	1,382.16	1,485.26	1,416.88	68.37	21.723						

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4J-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.70	0.36	-69.95	69.95				
100.00	100.00	100.00	100.00	0.14	0.14	-89.70	0.36	-69.95	69.95	69.67	0.28	253.412	
200.00	200.00	200.00	200.00	0.50	0.50	-89.70	0.36	-69.95	69.95	68.95	0.99	70.443	
300.00	300.00	300.00	300.00	0.85	0.85	-89.70	0.36	-69.95	69.95	68.24	1.71	40.907	
400.00	400.00	400.00	400.00	1.21	1.21	-89.70	0.36	-69.95	69.95	67.52	2.43	28.822	
500.00	500.00	502.27	502.25	1.57	1.58	-89.12	1.05	-68.25	68.30	65.13	3.17	21.577	
600.00	600.00	604.28	604.10	1.93	1.94	-87.20	3.09	-63.20	63.40	59.49	3.92	16.184	
700.00	700.00	705.77	705.19	2.29	2.31	-83.27	6.47	-54.83	55.45	50.78	4.67	11.875	
800.00	800.00	806.50	805.13	2.65	2.68	-75.55	11.15	-43.25	44.96	39.55	5.41	8.314	
900.00	899.98	906.31	903.68	2.99	3.07	164.33	17.08	-28.57	35.15	29.05	6.10	5.763	
967.29	967.20	972.90	969.09	3.22	3.35	-176.12	21.75	-17.01	32.53	25.97	6.56	4.957 CC, ES	
1,000.00	999.84	1,005.08	1,000.59	3.33	3.48	-165.44	24.21	-10.92	33.26	26.46	6.80	4.889 SF	
1,100.00	1,099.45	1,102.60	1,095.58	3.67	3.91	-138.29	32.47	9.54	44.20	36.61	7.60	5.819	
1,163.41	1,162.43	1,163.70	1,154.69	3.89	4.20	-127.82	38.26	23.88	56.36	48.25	8.10	6.954	
1,200.00	1,198.73	1,198.69	1,188.38	4.02	4.36	-123.58	41.79	32.62	64.51	56.12	8.39	7.692	
1,300.00	1,297.93	1,294.52	1,280.24	4.39	4.85	-115.30	52.01	57.94	89.02	79.87	9.15	9.730	
1,400.00	1,397.13	1,390.81	1,372.48	4.76	5.35	-110.52	62.37	83.58	114.70	104.80	9.90	11.581	
1,500.00	1,496.32	1,487.11	1,464.72	5.13	5.86	-107.48	72.73	109.22	140.87	130.20	10.66	13.210	
1,600.00	1,595.52	1,583.41	1,556.96	5.51	6.39	-105.40	83.08	134.86	167.28	155.85	11.43	14.635	
1,700.00	1,694.71	1,679.70	1,649.20	5.90	6.92	-103.89	93.44	160.51	193.85	181.65	12.20	15.885	
1,800.00	1,793.91	1,776.00	1,741.44	6.29	7.45	-102.74	103.80	186.15	220.51	207.53	12.98	16.985	
1,900.00	1,893.11	1,872.30	1,833.68	6.68	7.99	-101.84	114.15	211.79	247.24	233.47	13.77	17.958	
2,000.00	1,992.30	1,968.60	1,925.92	7.07	8.53	-101.11	124.51	237.43	274.01	259.46	14.56	18.823	
2,100.00	2,091.50	2,064.89	2,018.16	7.46	9.07	-100.52	134.86	263.07	300.82	285.47	15.35	19.596	
2,200.00	2,190.70	2,161.19	2,110.40	7.86	9.62	-100.02	145.22	288.72	327.65	311.50	16.15	20.290	
2,300.00	2,289.89	2,257.49	2,202.64	8.25	10.17	-99.60	155.58	314.36	354.50	337.55	16.95	20.917	
2,400.00	2,389.09	2,353.78	2,294.88	8.65	10.72	-99.23	165.93	340.00	381.37	363.62	17.75	21.484	
2,500.00	2,488.29	2,450.08	2,387.13	9.05	11.27	-98.92	176.29	365.64	408.25	389.69	18.56	22.000	
2,600.00	2,587.48	2,546.38	2,479.37	9.45	11.82	-98.64	186.65	391.29	435.14	415.77	19.36	22.471	
2,700.00	2,686.68	2,642.68	2,571.61	9.85	12.37	-98.40	197.00	416.93	462.03	441.86	20.17	22.903	
2,800.00	2,785.88	2,738.97	2,663.85	10.25	12.93	-98.18	207.36	442.57	488.94	467.95	20.98	23.300	
2,900.00	2,885.07	2,835.27	2,756.09	10.65	13.48	-97.98	217.72	468.21	515.85	494.05	21.80	23.666	
3,000.00	2,984.27	2,931.57	2,848.33	11.05	14.04	-97.81	228.07	493.85	542.76	520.15	22.61	24.005	
3,100.00	3,083.47	3,027.86	2,940.57	11.45	14.59	-97.65	238.43	519.50	569.68	546.26	23.43	24.319	
3,200.00	3,182.66	3,124.16	3,032.81	11.85	15.15	-97.50	248.78	545.14	596.60	572.36	24.24	24.611	
3,300.00	3,281.86	3,220.46	3,125.05	12.25	15.71	-97.37	259.14	570.78	623.53	598.47	25.06	24.883	
3,400.00	3,381.05	3,316.76	3,217.29	12.66	16.27	-97.25	269.50	596.42	650.46	624.58	25.88	25.138	
3,500.00	3,480.25	3,413.05	3,309.53	13.06	16.82	-97.14	279.85	622.06	677.39	650.70	26.69	25.376	
3,600.00	3,579.45	3,509.35	3,401.77	13.46	17.38	-97.04	290.21	647.71	704.33	676.81	27.51	25.599	
3,700.00	3,678.64	3,605.65	3,494.02	13.87	17.94	-96.94	300.57	673.35	731.26	702.93	28.33	25.809	
3,800.00	3,777.84	3,701.94	3,586.26	14.27	18.50	-96.85	310.92	698.99	758.20	729.04	29.15	26.006	
3,900.00	3,877.04	3,798.24	3,678.50	14.67	19.06	-96.77	321.28	724.63	785.14	755.16	29.98	26.193	
4,000.00	3,976.23	3,894.54	3,770.74	15.08	19.62	-96.69	331.63	750.27	812.08	781.28	30.80	26.369	
4,100.00	4,075.43	3,990.84	3,862.98	15.48	20.18	-96.62	341.99	775.92	839.02	807.40	31.62	26.535	
4,200.00	4,174.63	4,087.13	3,955.22	15.89	20.74	-96.55	352.35	801.56	865.96	833.52	32.44	26.693	
4,300.00	4,273.82	4,183.43	4,047.46	16.29	21.30	-96.49	362.70	827.20	892.91	859.64	33.26	26.842	
4,400.00	4,373.02	4,279.73	4,139.70	16.70	21.86	-96.43	373.06	852.84	919.85	885.76	34.09	26.985	
4,500.00	4,472.22	4,376.02	4,231.94	17.10	22.42	-96.37	383.42	878.48	946.80	911.89	34.91	27.120	
4,600.00	4,571.41	4,472.32	4,324.18	17.51	22.98	-96.32	393.77	904.13	973.74	938.01	35.74	27.248	
4,700.00	4,670.61	4,568.62	4,416.42	17.91	23.54	-96.27	404.13	929.77	1,000.69	964.13	36.56	27.371	
4,800.00	4,769.81	4,664.92	4,508.66	18.32	24.10	-96.22	414.48	955.41	1,027.64	990.26	37.38	27.488	
4,900.00	4,869.00	4,761.21	4,600.91	18.72	24.66	-96.18	424.84	981.05	1,054.59	1,016.38	38.21	27.600	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4J-32H-O268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.00	4,968.20	4,857.51	4,693.15	19.13	25.22	-96.13	435.20	1,006.70	1,081.54	1,042.50	39.04	27.707		
5,100.00	5,067.40	4,953.81	4,785.39	19.53	25.78	-96.09	445.55	1,032.34	1,108.49	1,068.63	39.86	27.809		
5,200.00	5,166.59	5,050.10	4,877.63	19.94	26.34	-96.05	455.91	1,057.98	1,135.44	1,094.75	40.69	27.907		
5,300.00	5,265.79	5,146.40	4,969.87	20.34	26.91	-96.01	466.27	1,083.62	1,162.39	1,120.88	41.51	28.001		
5,400.00	5,364.98	5,242.70	5,062.11	20.75	27.47	-95.98	476.62	1,109.26	1,189.34	1,147.00	42.34	28.091		
5,500.00	5,464.18	5,338.99	5,154.35	21.15	28.03	-95.94	486.98	1,134.91	1,216.29	1,173.13	43.16	28.178		
5,600.00	5,563.38	5,435.29	5,246.59	21.56	28.59	-95.91	497.34	1,160.55	1,243.24	1,199.25	43.99	28.261		
5,700.00	5,662.57	5,531.59	5,338.83	21.97	29.15	-95.88	507.69	1,186.19	1,270.20	1,225.38	44.82	28.341		
5,800.00	5,761.77	5,627.89	5,431.07	22.37	29.71	-95.85	518.05	1,211.83	1,297.15	1,251.50	45.65	28.418		
5,900.00	5,860.97	5,724.18	5,523.31	22.78	30.28	-95.82	528.40	1,237.47	1,324.10	1,277.63	46.47	28.492		
6,000.00	5,960.16	5,820.48	5,615.55	23.18	30.84	-95.80	538.76	1,263.12	1,351.06	1,303.76	47.30	28.564		
6,100.00	6,059.36	5,916.78	5,707.79	23.59	31.40	-95.77	549.12	1,288.76	1,378.01	1,329.88	48.13	28.633		
6,200.00	6,158.56	6,013.07	5,800.04	24.00	31.96	-95.74	559.47	1,314.40	1,404.96	1,356.01	48.95	28.699		
6,300.00	6,257.75	6,109.37	5,892.28	24.40	32.52	-95.72	569.83	1,340.04	1,431.92	1,382.13	49.78	28.763		
6,400.00	6,356.95	6,205.67	5,984.52	24.81	33.09	-95.70	580.19	1,365.68	1,458.87	1,408.26	50.61	28.825		
6,500.00	6,456.15	6,301.97	6,076.76	25.21	33.65	-95.67	590.54	1,391.33	1,485.83	1,434.39	51.44	28.885		
7,000.00	6,949.20	6,882.63	7,685.00	26.95	41.23	86.31	-529.34	1,807.98	1,486.07	1,440.23	45.84	32.422		
7,050.00	6,995.81	6,865.08	7,685.00	27.05	41.20	90.56	-511.79	1,808.39	1,459.72	1,412.94	46.78	31.201		
7,100.00	7,041.08	6,844.31	7,685.00	27.15	41.16	93.72	-491.03	1,808.88	1,435.11	1,387.41	47.69	30.090		
7,150.00	7,084.79	6,820.42	7,685.00	27.23	41.13	96.12	-467.14	1,809.43	1,412.28	1,363.73	48.55	29.087		
7,200.00	7,126.74	6,793.52	7,685.00	27.31	41.09	97.93	-440.25	1,810.06	1,391.30	1,341.93	49.37	28.183		
7,250.00	7,166.71	6,763.75	7,685.00	27.37	41.04	99.29	-410.49	1,810.76	1,372.17	1,322.03	50.14	27.369		
7,300.00	7,204.52	6,731.25	7,685.00	27.42	41.00	100.27	-378.00	1,811.52	1,354.89	1,304.04	50.84	26.649		
7,350.00	7,239.97	6,696.18	7,685.00	27.47	40.97	100.96	-342.94	1,812.34	1,339.41	1,287.93	51.48	26.016		
7,400.00	7,272.89	6,658.71	7,685.00	27.51	40.94	101.41	-305.48	1,813.22	1,325.69	1,273.60	52.09	25.451		
7,450.00	7,303.14	6,619.03	7,685.00	27.54	40.91	101.68	-265.81	1,814.14	1,313.65	1,261.03	52.62	24.964		
7,500.00	7,330.54	6,577.32	7,685.00	27.57	40.89	101.80	-224.11	1,815.12	1,303.20	1,250.09	53.11	24.539		
7,550.00	7,354.98	6,533.79	7,685.00	27.60	40.87	101.81	-180.59	1,816.14	1,294.24	1,240.70	53.54	24.171		
7,600.00	7,376.34	6,488.65	7,685.00	27.63	40.86	101.76	-135.47	1,817.19	1,286.68	1,232.75	53.93	23.858		
7,650.00	7,394.51	6,442.12	7,685.00	27.66	40.87	101.66	-88.95	1,818.28	1,280.43	1,226.14	54.28	23.588		
7,700.00	7,409.39	6,394.44	7,685.00	27.71	40.88	101.56	-41.28	1,819.40	1,275.38	1,220.80	54.58	23.367		
7,750.00	7,420.93	6,348.79	7,656.66	27.77	40.96	98.87	171.66	1,816.57	1,268.89	1,213.82	55.07	23.041		
7,800.00	7,429.06	6,298.19	7,578.33	27.86	40.98	95.07	351.45	1,799.21	1,257.23	1,201.08	56.16	22.388		
7,850.00	7,433.75	6,248.57	7,493.78	27.97	40.91	91.83	464.28	1,778.57	1,242.82	1,185.79	57.03	21.793		
7,892.48	7,435.00	7,746.41	7,428.45	28.09	40.81	89.68	527.04	1,762.05	1,229.62	1,172.12	57.50	21.383		
7,900.00	7,435.00	7,732.21	7,417.72	28.12	40.78	89.15	535.92	1,759.30	1,227.24	1,169.68	57.57	21.318		
8,000.00	7,435.00	7,595.87	7,306.83	28.50	40.52	83.54	609.45	1,730.49	1,195.79	1,137.67	58.12	20.574		
8,100.00	7,435.00	7,517.98	7,238.14	28.99	40.30	79.97	641.28	1,712.32	1,167.92	1,109.34	58.58	19.937		
8,200.00	7,435.00	7,468.67	7,193.12	29.57	40.14	77.61	657.36	1,700.30	1,146.17	1,086.94	59.24	19.349		
8,300.00	7,435.00	7,434.95	7,161.78	30.22	40.01	75.95	666.50	1,691.88	1,131.82	1,071.66	60.16	18.813		
8,400.00	7,435.00	7,410.54	7,138.85	30.94	39.92	74.74	672.15	1,685.70	1,125.57	1,064.23	61.34	18.350		
8,423.99	7,435.00	7,405.66	7,134.24	31.13	39.90	74.50	673.19	1,684.45	1,125.33	1,063.67	61.66	18.250		
8,500.00	7,435.00	7,392.08	7,121.40	31.72	39.85	73.82	675.89	1,680.98	1,127.80	1,065.08	62.72	17.983		
8,600.00	7,435.00	7,377.66	7,107.70	32.56	39.78	73.10	678.48	1,677.27	1,138.58	1,074.37	64.21	17.732		
8,700.00	7,435.00	7,366.09	7,096.68	33.44	39.73	72.52	680.36	1,674.28	1,157.74	1,092.00	65.74	17.610		
8,800.00	7,435.00	7,350.00	7,081.32	34.38	39.66	71.70	682.66	1,670.10	1,184.96	1,117.80	67.16	17.644		
8,900.00	7,435.00	7,350.00	7,081.32	35.36	39.66	71.70	682.66	1,670.10	1,219.64	1,150.99	68.65	17.765		
9,000.00	7,435.00	7,350.00	7,081.32	36.38	39.66	71.70	682.66	1,670.10	1,261.32	1,191.32	70.00	18.019		
9,100.00	7,435.00	7,336.23	7,068.13	37.43	39.60	71.01	684.35	1,666.51	1,309.18	1,238.17	71.02	18.435		
9,200.00	7,435.00	7,331.24	7,063.35	38.52	39.58	70.76	684.89	1,665.21	1,362.72	1,290.74	71.98	18.932		
9,300.00	7,435.00	7,326.88	7,059.16	39.64	39.55	70.54	685.34	1,664.06	1,421.25	1,348.46	72.79	19.524		
9,400.00	7,435.00	7,323.03	7,055.47	40.79	39.54	70.34	685.71	1,663.05	1,484.19	1,410.72	73.47	20.200		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4K-32H-O268 - 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	-89.67	0.35	-59.87	59.88				
100.00	100.00	100.00	100.00	0.14	0.14	-89.67	0.35	-59.87	59.88	59.60	0.28	216.921	
200.00	200.00	200.00	200.00	0.50	0.50	-89.67	0.35	-59.87	59.88	58.88	0.99	60.299	
300.00	300.00	300.00	300.00	0.85	0.85	-89.67	0.35	-59.87	59.88	58.17	1.71	35.017	
400.00	400.00	401.94	401.92	1.21	1.22	-89.02	0.99	-58.18	58.22	55.77	2.45	23.715	
500.00	500.00	503.63	503.46	1.57	1.58	-86.85	2.93	-53.12	53.31	50.09	3.22	16.565	
600.00	600.00	604.81	604.23	1.93	1.95	-82.20	6.12	-44.74	45.35	41.38	3.98	11.400	
700.00	700.00	705.22	703.87	2.29	2.33	-72.34	10.55	-33.14	35.00	30.28	4.71	7.423	
800.00	800.00	804.65	802.04	2.65	2.72	-48.80	16.16	-18.46	24.61	19.21	5.40	4.558	
853.15	853.15	857.05	853.55	2.83	2.94	-163.47	19.60	-9.44	22.23	16.46	5.77	3.856 CC, ES, SF	
900.00	899.98	902.98	898.53	2.99	3.13	-142.01	22.89	-0.81	24.30	18.16	6.14	3.958	
1,000.00	999.84	1,000.00	993.06	3.33	3.56	-114.12	30.70	19.63	39.40	32.43	6.97	5.656	
1,100.00	1,099.45	1,095.90	1,085.70	3.67	4.03	-103.82	39.52	42.75	61.89	54.16	7.72	8.013	
1,163.41	1,162.43	1,155.84	1,143.17	3.89	4.34	-100.92	45.60	58.67	78.36	70.16	8.20	9.558	
1,200.00	1,198.73	1,190.14	1,175.89	4.02	4.51	-99.94	49.27	68.29	88.47	80.00	8.47	10.448	
1,300.00	1,297.93	1,285.97	1,267.11	4.39	5.04	-97.92	59.73	95.70	116.72	107.52	9.19	12.693	
1,400.00	1,397.13	1,381.84	1,358.37	4.76	5.58	-96.69	70.20	123.12	145.05	135.11	9.94	14.598	
1,500.00	1,496.32	1,477.70	1,449.64	5.13	6.13	-95.86	80.67	150.55	173.42	162.73	10.69	16.224	
1,600.00	1,595.52	1,573.57	1,540.90	5.51	6.69	-95.26	91.14	177.97	201.82	190.36	11.45	17.621	
1,700.00	1,694.71	1,669.43	1,632.16	5.90	7.25	-94.81	101.61	205.39	230.23	218.00	12.23	18.831	
1,800.00	1,793.91	1,765.30	1,723.42	6.29	7.81	-94.46	112.08	232.82	258.65	245.65	13.01	19.887	
1,900.00	1,893.11	1,861.16	1,814.68	6.68	8.38	-94.18	122.54	260.24	287.08	273.29	13.79	20.814	
2,000.00	1,992.30	1,957.03	1,905.94	7.07	8.96	-93.95	133.01	287.66	315.52	300.93	14.58	21.633	
2,100.00	2,091.50	2,052.89	1,997.20	7.46	9.53	-93.76	143.48	315.09	343.96	328.57	15.38	22.362	
2,200.00	2,190.70	2,148.76	2,088.46	7.86	10.11	-93.60	153.95	342.51	372.40	356.22	16.18	23.014	
2,300.00	2,289.89	2,244.62	2,179.72	8.25	10.69	-93.46	164.42	369.93	400.84	383.86	16.98	23.600	
2,400.00	2,389.09	2,340.49	2,270.98	8.65	11.27	-93.33	174.88	397.36	429.29	411.50	17.79	24.129	
2,500.00	2,488.29	2,436.35	2,362.24	9.05	11.85	-93.23	185.35	424.78	457.73	439.13	18.60	24.609	
2,600.00	2,587.48	2,532.22	2,453.50	9.45	12.43	-93.13	195.82	452.20	486.18	466.77	19.41	25.047	
2,700.00	2,686.68	2,628.08	2,544.76	9.85	13.01	-93.05	206.29	479.63	514.63	494.41	20.22	25.446	
2,800.00	2,785.88	2,723.95	2,636.02	10.25	13.60	-92.98	216.76	507.05	543.08	522.05	21.04	25.813	
2,900.00	2,885.07	2,819.81	2,727.28	10.65	14.18	-92.91	227.23	534.47	571.54	549.68	21.86	26.151	
3,000.00	2,984.27	2,915.68	2,818.54	11.05	14.77	-92.85	237.69	561.90	599.99	577.32	22.67	26.463	
3,100.00	3,083.47	3,011.54	2,909.80	11.45	15.35	-92.79	248.16	589.32	628.44	604.95	23.49	26.751	
3,200.00	3,182.66	3,107.41	3,001.07	11.85	15.94	-92.74	258.63	616.74	656.89	632.58	24.31	27.019	
3,300.00	3,281.86	3,203.27	3,092.33	12.25	16.52	-92.70	269.10	644.17	685.35	660.22	25.13	27.269	
3,400.00	3,381.05	3,299.14	3,183.59	12.66	17.11	-92.65	279.57	671.59	713.80	687.85	25.96	27.502	
3,500.00	3,480.25	3,395.00	3,274.85	13.06	17.70	-92.61	290.03	699.01	742.26	715.48	26.78	27.719	
3,600.00	3,579.45	3,490.87	3,366.11	13.46	18.28	-92.58	300.50	726.44	770.71	743.11	27.60	27.923	
3,700.00	3,678.64	3,586.73	3,457.37	13.87	18.87	-92.54	310.97	753.86	799.17	770.74	28.43	28.114	
3,800.00	3,777.84	3,682.60	3,548.63	14.27	19.46	-92.51	321.44	781.28	827.62	798.37	29.25	28.294	
3,900.00	3,877.04	3,778.46	3,639.89	14.67	20.05	-92.48	331.91	808.71	856.08	826.00	30.08	28.464	
4,000.00	3,976.23	3,874.33	3,731.15	15.08	20.63	-92.45	342.38	836.13	884.53	853.63	30.90	28.624	
4,100.00	4,075.43	3,970.19	3,822.41	15.48	21.22	-92.43	352.84	863.55	912.99	881.26	31.73	28.775	
4,200.00	4,174.63	4,066.06	3,913.67	15.89	21.81	-92.40	363.31	890.98	941.44	908.89	32.56	28.918	
4,300.00	4,273.82	4,161.92	4,004.93	16.29	22.40	-92.38	373.78	918.40	969.90	936.52	33.38	29.054	
4,400.00	4,373.02	4,257.79	4,096.19	16.70	22.99	-92.36	384.25	945.82	998.36	964.15	34.21	29.183	
4,500.00	4,472.22	4,353.65	4,187.45	17.10	23.58	-92.34	394.72	973.25	1,026.81	991.78	35.04	29.305	
4,600.00	4,571.41	4,449.52	4,278.71	17.51	24.17	-92.32	405.19	1,000.67	1,055.27	1,019.40	35.87	29.422	
4,700.00	4,670.61	4,545.38	4,369.97	17.91	24.76	-92.30	415.65	1,028.09	1,083.73	1,047.03	36.70	29.533	
4,800.00	4,769.81	4,641.25	4,461.23	18.32	25.35	-92.28	426.12	1,055.52	1,112.18	1,074.66	37.53	29.638	
4,900.00	4,869.00	4,737.11	4,552.49	18.72	25.93	-92.27	436.59	1,082.94	1,140.64	1,102.29	38.35	29.739	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4K-32H-O268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.00	4,968.20	4,832.98	4,643.76	19.13	26.52	-92.25	447.06	1,110.36	1,169.10	1,129.91	39.18	29.836		
5,100.00	5,067.40	4,928.84	4,735.02	19.53	27.11	-92.24	457.53	1,137.79	1,197.55	1,157.54	40.01	29.928		
5,200.00	5,166.59	5,024.71	4,826.28	19.94	27.70	-92.22	467.99	1,165.21	1,226.01	1,185.17	40.84	30.017		
5,300.00	5,265.79	5,120.57	4,917.54	20.34	28.29	-92.21	478.46	1,192.63	1,254.47	1,212.79	41.67	30.101		
5,400.00	5,364.98	5,216.44	5,008.80	20.75	28.88	-92.20	488.93	1,220.06	1,282.93	1,240.42	42.51	30.182		
5,500.00	5,464.18	5,312.30	5,100.06	21.15	29.47	-92.18	499.40	1,247.48	1,311.38	1,268.05	43.34	30.260		
5,600.00	5,563.38	5,408.17	5,191.32	21.56	30.06	-92.17	509.87	1,274.90	1,339.84	1,295.67	44.17	30.335		
5,700.00	5,662.57	5,504.03	5,282.58	21.97	30.65	-92.16	520.34	1,302.33	1,368.30	1,323.30	45.00	30.407		
5,800.00	5,761.77	5,599.90	5,373.84	22.37	31.24	-92.15	530.80	1,329.75	1,396.75	1,350.92	45.83	30.476		
5,900.00	5,860.97	5,695.76	5,465.10	22.78	31.83	-92.14	541.27	1,357.17	1,425.21	1,378.55	46.66	30.543		
6,000.00	5,960.16	5,791.63	5,556.36	23.18	32.42	-92.13	551.74	1,384.60	1,453.67	1,406.18	47.49	30.607		
6,100.00	6,059.36	5,887.50	5,647.62	23.59	33.01	-92.12	562.21	1,412.02	1,482.13	1,433.80	48.33	30.669		
7,100.00	7,041.08	6,621.62	7,455.00	27.15	42.71	86.90	-461.03	1,955.12	1,487.19	1,434.47	52.72	28.208		
7,150.00	7,084.79	6,597.83	7,455.00	27.23	42.67	88.73	-437.25	1,955.12	1,471.08	1,417.66	53.42	27.539		
7,200.00	7,126.74	6,571.04	7,455.00	27.31	42.62	90.04	-410.45	1,955.12	1,456.57	1,402.50	54.06	26.942		
7,250.00	7,166.71	6,541.36	7,455.00	27.37	42.58	90.93	-380.78	1,955.12	1,443.62	1,388.98	54.64	26.423		
7,300.00	7,204.52	6,508.96	7,455.00	27.42	42.54	91.50	-348.37	1,955.12	1,432.16	1,377.02	55.14	25.975		
7,350.00	7,239.97	6,473.98	7,455.00	27.47	42.50	91.82	-313.40	1,955.12	1,422.11	1,366.52	55.59	25.583		
7,400.00	7,272.89	6,436.60	7,455.00	27.51	42.46	91.94	-276.02	1,955.13	1,413.36	1,357.38	55.98	25.247		
7,450.00	7,303.14	6,397.00	7,455.00	27.54	42.43	91.92	-236.41	1,955.13	1,405.79	1,349.47	56.31	24.964		
7,500.00	7,330.54	6,355.37	7,455.00	27.57	42.40	91.79	-194.78	1,955.13	1,399.28	1,342.66	56.62	24.716		
7,550.00	7,354.98	6,311.91	7,455.00	27.60	42.38	91.59	-151.33	1,955.13	1,393.70	1,336.83	56.87	24.508		
7,600.00	7,376.34	6,266.84	7,455.00	27.63	42.36	91.37	-106.25	1,955.13	1,388.93	1,331.84	57.10	24.326		
7,650.00	7,394.51	6,220.38	7,455.00	27.66	42.36	91.15	-59.79	1,955.13	1,384.86	1,327.57	57.30	24.170		
7,700.00	7,409.39	6,144.76	7,453.62	27.71	42.36	90.59	15.79	1,954.71	1,381.21	1,323.77	57.44	24.045		
7,750.00	7,420.93	6,028.20	7,437.52	27.77	42.37	89.32	131.01	1,949.87	1,376.10	1,318.48	57.61	23.885		
7,800.00	7,429.06	5,923.71	7,408.05	27.86	42.37	88.00	230.77	1,941.02	1,369.40	1,311.55	57.85	23.673		
7,850.00	7,433.75	5,830.55	7,370.30	27.97	42.34	86.71	315.11	1,929.67	1,361.52	1,303.44	58.08	23.442		
7,892.48	7,435.00	5,759.32	7,334.55	28.09	42.31	85.68	375.73	1,918.93	1,354.17	1,295.91	58.26	23.244		
7,900.00	7,435.00	5,747.43	7,328.02	28.12	42.30	85.39	385.48	1,916.97	1,352.82	1,294.53	58.29	23.209		
8,000.00	7,435.00	5,614.14	7,244.81	28.50	42.15	81.66	486.29	1,891.97	1,334.35	1,275.68	58.67	22.743		
8,100.00	7,435.00	5,518.31	7,174.64	28.99	41.98	78.46	547.95	1,870.88	1,317.22	1,258.13	59.09	22.291		
8,200.00	7,435.00	5,448.40	7,118.80	29.57	41.82	75.88	586.47	1,854.10	1,303.84	1,244.18	59.66	21.853		
8,300.00	7,435.00	5,396.07	7,074.79	30.22	41.68	73.84	611.48	1,840.87	1,295.68	1,235.24	60.44	21.438		
8,381.42	7,435.00	5,362.57	7,045.74	30.80	41.57	72.49	625.70	1,832.15	1,293.54	1,232.30	61.23	21.125		
8,400.00	7,435.00	5,355.82	7,039.82	30.94	41.55	72.21	628.40	1,830.37	1,293.65	1,232.22	61.43	21.060		
8,500.00	7,435.00	5,324.09	7,011.64	31.72	41.44	70.90	640.27	1,821.90	1,298.27	1,235.67	62.60	20.740		
8,600.00	7,435.00	5,300.00	6,989.92	32.56	41.36	69.90	648.41	1,815.37	1,309.77	1,245.84	63.92	20.489		
8,700.00	7,435.00	5,277.54	6,969.46	33.44	41.27	68.95	655.30	1,809.22	1,328.17	1,262.88	65.29	20.343		
8,800.00	7,435.00	5,260.04	6,953.36	34.38	41.20	68.21	660.21	1,804.39	1,353.32	1,286.63	66.69	20.292		
8,900.00	7,435.00	5,250.00	6,944.09	35.36	41.16	67.78	662.84	1,801.60	1,384.97	1,316.84	68.13	20.327		
9,000.00	7,435.00	5,232.54	6,927.86	36.38	41.09	67.04	667.09	1,796.73	1,422.70	1,353.33	69.37	20.509		
9,100.00	7,435.00	5,221.56	6,917.62	37.43	41.04	66.57	669.55	1,793.65	1,466.12	1,395.54	70.58	20.773		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4L-32H-O268 - 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	-89.62	0.33	-49.80	49.80					
100.00	100.00	100.00	100.00	0.14	0.14	-89.62	0.33	-49.80	49.80	49.53	0.28	180.431		
166.67	166.67	166.67	166.67	0.38	0.38	-89.62	0.33	-49.80	49.80	49.05	0.75	66.053		
200.00	200.00	200.00	200.00	0.50	0.50	-89.62	0.33	-49.80	49.80	48.81	0.99	50.156	CC, ES	
300.00	300.00	298.85	298.83	0.85	0.84	-91.08	-0.96	-50.92	50.94	49.23	1.71	29.745		
400.00	400.00	397.46	397.30	1.21	1.19	-95.07	-4.82	-54.25	54.53	52.08	2.45	22.230		
500.00	500.00	495.60	495.08	1.57	1.54	-100.61	-11.20	-59.77	61.00	57.79	3.22	18.962		
600.00	600.00	594.88	593.79	1.93	1.91	-106.04	-19.17	-66.65	69.63	65.70	3.93	17.722		
700.00	700.00	694.31	692.66	2.29	2.29	-110.27	-27.17	-73.57	78.76	74.13	4.64	16.990		
800.00	800.00	793.74	791.53	2.65	2.68	-113.60	-35.16	-80.48	88.23	82.89	5.34	16.513		
900.00	899.98	893.18	890.40	2.99	3.06	107.10	-43.16	-87.39	98.43	92.40	6.04	16.301		
1,000.00	999.84	992.53	989.20	3.33	3.45	107.27	-51.15	-94.29	109.70	102.97	6.73	16.305		
1,100.00	1,099.45	1,091.69	1,087.79	3.67	3.84	108.91	-59.12	-101.18	122.06	114.64	7.43	16.430		
1,163.41	1,162.43	1,154.40	1,150.15	3.89	4.08	110.51	-64.17	-105.54	130.58	122.70	7.88	16.568		
1,200.00	1,198.73	1,190.55	1,186.09	4.02	4.22	111.58	-67.07	-108.05	135.70	127.55	8.14	16.660		
1,300.00	1,297.93	1,289.34	1,284.32	4.39	4.61	114.14	-75.02	-114.92	149.88	141.01	8.87	16.898		
1,400.00	1,397.13	1,388.13	1,382.55	4.76	5.00	116.25	-82.96	-121.79	164.30	154.70	9.60	17.111		
1,500.00	1,496.32	1,486.92	1,480.78	5.13	5.38	118.02	-90.91	-128.65	178.91	168.57	10.34	17.302		
1,600.00	1,595.52	1,585.70	1,579.01	5.51	5.77	119.52	-98.85	-135.52	193.66	182.57	11.08	17.472		
1,700.00	1,694.71	1,684.49	1,677.24	5.90	6.16	120.81	-106.79	-142.38	208.52	196.69	11.83	17.626		
1,800.00	1,793.91	1,783.28	1,775.46	6.29	6.55	121.93	-114.74	-149.25	223.47	210.89	12.58	17.764		
1,900.00	1,893.11	1,882.07	1,873.69	6.68	6.94	122.90	-122.68	-156.11	238.49	225.16	13.33	17.889		
2,000.00	1,992.30	1,980.86	1,971.92	7.07	7.32	123.76	-130.63	-162.98	253.58	239.49	14.09	18.003		
2,100.00	2,091.50	2,079.65	2,070.15	7.46	7.71	124.53	-138.57	-169.85	268.71	253.87	14.84	18.106		
2,200.00	2,190.70	2,178.43	2,168.38	7.86	8.10	125.21	-146.52	-176.71	283.89	268.29	15.60	18.201		
2,300.00	2,289.89	2,277.22	2,266.61	8.25	8.49	125.83	-154.46	-183.58	299.10	282.74	16.35	18.288		
2,400.00	2,389.09	2,376.01	2,364.84	8.65	8.88	126.38	-162.41	-190.44	314.34	297.23	17.11	18.368		
2,500.00	2,488.29	2,474.80	2,463.06	9.05	9.27	126.88	-170.35	-197.31	329.61	311.73	17.87	18.442		
2,600.00	2,587.48	2,573.59	2,561.29	9.45	9.66	127.34	-178.29	-204.17	344.90	326.26	18.63	18.511		
2,700.00	2,686.68	2,672.37	2,659.52	9.85	10.04	127.76	-186.24	-211.04	360.20	340.81	19.39	18.574		
2,800.00	2,785.88	2,771.16	2,757.75	10.25	10.43	128.15	-194.18	-217.91	375.53	355.38	20.15	18.633		
2,900.00	2,885.07	2,869.95	2,855.98	10.65	10.82	128.50	-202.13	-224.77	390.87	369.96	20.92	18.689		
3,000.00	2,984.27	2,968.74	2,954.21	11.05	11.21	128.83	-210.07	-231.64	406.23	384.55	21.68	18.740		
3,100.00	3,083.47	3,067.53	3,052.44	11.45	11.60	129.13	-218.02	-238.50	421.60	399.16	22.44	18.789		
3,200.00	3,182.66	3,166.32	3,150.66	11.85	11.99	129.42	-225.96	-245.37	436.98	413.77	23.20	18.834		
3,300.00	3,281.86	3,265.10	3,248.89	12.25	12.38	129.68	-233.90	-252.24	452.36	428.40	23.96	18.877		
3,400.00	3,381.05	3,363.89	3,347.12	12.66	12.77	129.93	-241.85	-259.10	467.76	443.03	24.73	18.917		
3,500.00	3,480.25	3,462.68	3,445.35	13.06	13.16	130.16	-249.79	-265.97	483.17	457.68	25.49	18.955		
3,600.00	3,579.45	3,561.47	3,543.58	13.46	13.55	130.37	-257.74	-272.83	498.58	472.33	26.25	18.991		
3,700.00	3,678.64	3,660.26	3,641.81	13.87	13.93	130.58	-265.68	-279.70	514.00	486.98	27.02	19.025		
3,800.00	3,777.84	3,759.04	3,740.04	14.27	14.32	130.77	-273.63	-286.56	529.42	501.64	27.78	19.057		
3,900.00	3,877.04	3,857.83	3,838.26	14.67	14.71	130.95	-281.57	-293.43	544.85	516.31	28.54	19.088		
4,000.00	3,976.23	3,956.62	3,936.49	15.08	15.10	131.12	-289.52	-300.30	560.29	530.98	29.31	19.117		
4,100.00	4,075.43	4,055.41	4,034.72	15.48	15.49	131.28	-297.46	-307.16	575.73	545.65	30.07	19.144		
4,200.00	4,174.63	4,154.20	4,132.95	15.89	15.88	131.44	-305.40	-314.03	591.17	560.33	30.84	19.171		
4,300.00	4,273.82	4,252.99	4,231.18	16.29	16.27	131.58	-313.35	-320.89	606.62	575.02	31.60	19.196		
4,400.00	4,373.02	4,351.77	4,329.41	16.70	16.66	131.72	-321.29	-327.76	622.07	589.70	32.37	19.220		
4,500.00	4,472.22	4,450.56	4,427.64	17.10	17.05	131.85	-329.24	-334.62	637.53	604.40	33.13	19.243		
4,600.00	4,571.41	4,549.35	4,525.86	17.51	17.44	131.98	-337.18	-341.49	652.98	619.09	33.90	19.265		
4,700.00	4,670.61	4,648.14	4,624.09	17.91	17.83	132.10	-345.13	-348.36	668.44	633.78	34.66	19.286		
4,800.00	4,769.81	4,746.93	4,722.32	18.32	18.21	132.21	-353.07	-355.22	683.91	648.48	35.43	19.306		
4,900.00	4,869.00	4,845.71	4,820.55	18.72	18.60	132.32	-361.01	-362.09	699.37	663.18	36.19	19.325		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4L-32H-O268 - 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	4,968.20	4,944.50	4,918.78	19.13	18.99	132.42	-368.96	-368.95	714.84	677.89	36.95	19.344	
5,100.00	5,067.40	5,043.29	5,017.01	19.53	19.38	132.52	-376.90	-375.82	730.31	692.59	37.72	19.361	
5,200.00	5,166.59	5,142.08	5,115.24	19.94	19.77	132.62	-384.85	-382.69	745.79	707.30	38.49	19.379	
5,300.00	5,265.79	5,240.87	5,213.46	20.34	20.16	132.71	-392.79	-389.55	761.26	722.01	39.25	19.395	
5,400.00	5,364.98	5,339.66	5,311.69	20.75	20.55	132.80	-400.74	-396.42	776.74	736.72	40.02	19.411	
5,500.00	5,464.18	5,438.44	5,409.92	21.15	20.94	132.88	-408.68	-403.28	792.22	751.44	40.78	19.426	
5,600.00	5,563.38	5,537.23	5,508.15	21.56	21.33	132.97	-416.63	-410.15	807.70	766.15	41.55	19.441	
5,700.00	5,662.57	5,636.02	5,606.38	21.97	21.72	133.04	-424.57	-417.01	823.18	780.87	42.31	19.455	
5,800.00	5,761.77	5,734.81	5,704.61	22.37	22.11	133.12	-432.51	-423.88	838.66	795.58	43.08	19.469	
5,900.00	5,860.97	5,833.60	5,802.84	22.78	22.50	133.19	-440.46	-430.75	854.15	810.30	43.84	19.482	
6,000.00	5,960.16	5,932.38	5,901.06	23.18	22.89	133.26	-448.40	-437.61	869.63	825.02	44.61	19.495	
6,100.00	6,059.36	6,031.17	5,999.29	23.59	23.27	133.33	-456.35	-444.48	885.12	839.74	45.37	19.507	
6,200.00	6,158.56	6,129.96	6,097.52	24.00	23.66	133.40	-464.29	-451.34	900.61	854.47	46.14	19.519	
6,300.00	6,257.75	6,228.75	6,195.75	24.40	24.05	133.46	-472.24	-458.21	916.10	869.19	46.91	19.531	
6,400.00	6,356.95	6,327.54	6,293.98	24.81	24.44	133.52	-480.18	-465.07	931.59	883.91	47.67	19.542	
6,500.00	6,456.15	6,426.33	6,392.21	25.21	24.83	133.58	-488.12	-471.94	947.08	898.64	48.44	19.553	
6,600.00	6,555.34	6,525.11	6,490.44	25.62	25.22	133.64	-496.07	-478.81	962.57	913.37	49.20	19.563	
6,702.76	6,657.28	6,626.63	6,591.38	26.04	25.62	133.69	-504.23	-485.86	978.49	928.50	49.99	19.574	
6,750.00	6,704.24	6,673.27	6,637.76	26.22	25.80	164.22	-507.98	-489.10	985.83	935.49	50.34	19.582	
6,800.00	6,754.03	6,722.44	6,686.64	26.40	26.00	-153.22	-511.94	-492.52	993.64	942.94	50.70	19.598	
6,850.00	6,803.66	6,771.16	6,735.09	26.56	26.19	-127.83	-515.86	-495.91	1,001.51	950.47	51.04	19.622	
6,900.00	6,852.89	6,819.20	6,782.86	26.70	26.38	-115.87	-519.72	-499.24	1,009.46	958.10	51.36	19.654	
6,950.00	6,901.49	6,866.32	6,829.71	26.83	26.57	-109.62	-523.51	-502.52	1,017.58	965.91	51.67	19.694	
7,000.00	6,949.20	6,912.30	6,875.43	26.95	26.75	-106.01	-527.21	-505.72	1,025.97	974.01	51.96	19.744	
7,050.00	6,995.81	6,959.91	6,922.83	27.05	26.93	-103.83	-530.16	-509.02	1,034.69	982.44	52.26	19.800	
7,100.00	7,041.08	7,009.74	6,972.53	27.15	27.10	-102.43	-529.97	-512.44	1,043.67	991.13	52.54	19.863	
7,150.00	7,084.79	7,061.25	7,023.76	27.23	27.26	-101.51	-526.13	-515.93	1,052.86	1,000.05	52.82	19.935	
7,200.00	7,126.74	7,114.61	7,076.41	27.31	27.41	-100.91	-518.27	-519.48	1,062.19	1,009.12	53.08	20.013	
7,250.00	7,166.71	7,170.01	7,130.30	27.37	27.54	-100.54	-505.99	-523.05	1,071.60	1,018.28	53.32	20.097	
7,300.00	7,204.52	7,227.64	7,185.18	27.42	27.67	-100.34	-488.82	-526.65	1,081.02	1,027.47	53.55	20.186	
7,350.00	7,239.97	7,287.72	7,240.73	27.47	27.80	-100.26	-466.27	-530.22	1,090.36	1,036.60	53.76	20.280	
7,400.00	7,272.89	7,350.43	7,296.50	27.51	27.91	-100.27	-437.85	-533.75	1,099.53	1,045.58	53.95	20.380	
7,450.00	7,303.14	7,415.95	7,351.89	27.54	28.00	-100.36	-403.06	-537.17	1,108.42	1,054.31	54.12	20.483	
7,500.00	7,330.54	7,484.43	7,406.14	27.57	28.09	-100.50	-361.44	-540.44	1,116.93	1,062.67	54.26	20.586	
7,550.00	7,354.98	7,555.96	7,458.30	27.60	28.17	-100.67	-312.63	-543.49	1,124.94	1,070.55	54.38	20.686	
7,600.00	7,376.34	7,630.57	7,507.26	27.63	28.24	-100.85	-256.45	-546.22	1,132.31	1,077.81	54.50	20.775	
7,650.00	7,394.51	7,708.16	7,551.70	27.66	28.31	-101.03	-192.94	-548.57	1,138.94	1,084.31	54.63	20.847	
7,700.00	7,409.39	7,788.53	7,590.24	27.71	28.38	-101.18	-122.49	-550.43	1,144.69	1,089.89	54.80	20.888	
7,750.00	7,420.93	7,871.31	7,621.45	27.77	28.48	-101.28	-45.88	-551.71	1,149.46	1,094.44	55.03	20.890	
7,800.00	7,429.06	7,956.00	7,644.04	27.86	28.63	-101.33	35.69	-552.34	1,153.15	1,097.83	55.33	20.842	
7,850.00	7,433.75	8,041.96	7,657.00	27.97	28.84	-101.30	120.62	-552.27	1,155.69	1,099.97	55.73	20.739	
7,892.48	7,435.00	8,112.15	7,660.00	28.09	29.06	-101.22	190.71	-551.68	1,156.92	1,100.79	56.13	20.612	
7,900.00	7,435.00	8,119.67	7,660.00	28.12	29.09	-101.22	198.24	-551.60	1,157.08	1,100.89	56.19	20.594	
8,000.00	7,435.00	8,219.65	7,660.00	28.50	29.50	-101.19	298.21	-550.46	1,159.21	1,102.18	57.03	20.327	
8,100.00	7,435.00	8,319.62	7,660.00	28.99	30.00	-101.17	398.18	-549.33	1,161.34	1,103.32	58.02	20.016	
8,200.00	7,435.00	8,419.60	7,660.00	29.57	30.59	-101.15	498.15	-548.19	1,163.47	1,104.32	59.16	19.667	
8,300.00	7,435.00	8,519.57	7,660.00	30.22	31.24	-101.13	598.12	-547.06	1,165.61	1,105.17	60.43	19.287	
8,400.00	7,435.00	8,619.55	7,660.00	30.94	31.97	-101.11	698.09	-545.92	1,167.74	1,105.90	61.84	18.883	
8,500.00	7,435.00	8,719.53	7,660.00	31.72	32.75	-101.09	798.06	-544.79	1,169.87	1,106.51	63.37	18.462	
8,600.00	7,435.00	8,819.50	7,660.00	32.56	33.59	-101.07	898.03	-543.65	1,172.00	1,107.00	65.00	18.030	
8,700.00	7,435.00	8,919.48	7,660.00	33.44	34.48	-101.05	998.00	-542.52	1,174.14	1,107.39	66.75	17.591	
8,800.00	7,435.00	9,019.46	7,660.00	34.38	35.42	-101.03	1,097.97	-541.38	1,176.27	1,107.68	68.59	17.150	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4L-32H-O268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
8,900.00	7,435.00	9,119.43	7,660.00	35.36	36.41	-101.01	1,197.94	-540.25	1,178.40	1,107.89	70.51	16.712		
9,000.00	7,435.00	9,219.41	7,660.00	36.38	37.43	-100.99	1,297.91	-539.12	1,180.54	1,108.01	72.52	16.278		
9,100.00	7,435.00	9,319.39	7,660.00	37.43	38.49	-100.97	1,397.88	-537.98	1,182.67	1,108.06	74.61	15.852		
9,200.00	7,435.00	9,419.36	7,660.00	38.52	39.58	-100.95	1,497.85	-536.85	1,184.80	1,108.04	76.76	15.435		
9,300.00	7,435.00	9,519.34	7,660.00	39.64	40.71	-100.93	1,597.82	-535.71	1,186.94	1,107.96	78.98	15.029		
9,400.00	7,435.00	9,619.32	7,660.00	40.79	41.86	-100.91	1,697.79	-534.58	1,189.07	1,107.82	81.25	14.634		
9,500.00	7,435.00	9,719.29	7,660.00	41.97	43.04	-100.89	1,797.76	-533.44	1,191.21	1,107.62	83.58	14.252		
9,600.00	7,435.00	9,819.27	7,660.00	43.17	44.25	-100.87	1,897.73	-532.31	1,193.34	1,107.38	85.96	13.883		
9,700.00	7,435.00	9,919.24	7,660.00	44.39	45.48	-100.85	1,997.70	-531.17	1,195.47	1,107.09	88.38	13.526		
9,800.00	7,435.00	10,019.22	7,660.00	45.64	46.73	-100.83	2,097.67	-530.04	1,197.61	1,106.76	90.85	13.183		
9,900.00	7,435.00	10,119.20	7,660.00	46.90	48.00	-100.81	2,197.64	-528.90	1,199.74	1,106.39	93.35	12.852		
9,915.75	7,435.00	10,134.94	7,660.00	47.10	48.20	-100.81	2,213.38	-528.72	1,200.08	1,106.33	93.75	12.801		
10,000.00	7,435.00	10,219.19	7,660.00	48.18	49.28	-100.80	2,297.62	-527.77	1,200.66	1,104.77	95.89	12.521		
10,100.00	7,435.00	10,319.15	7,660.00	49.50	50.58	-100.83	2,397.58	-526.63	1,198.19	1,099.71	98.48	12.167		
10,120.42	7,435.00	10,339.55	7,660.00	49.77	50.85	-100.84	2,417.97	-526.40	1,197.27	1,098.26	99.01	12.092		
10,200.00	7,435.00	10,419.03	7,660.00	50.84	51.90	-100.88	2,497.45	-525.50	1,193.39	1,092.28	101.10	11.804		
10,300.00	7,435.00	10,518.91	7,660.00	52.20	53.23	-100.93	2,597.32	-524.36	1,188.51	1,084.75	103.75	11.455		
10,400.00	7,435.00	10,618.78	7,660.00	53.57	54.57	-100.97	2,697.19	-523.23	1,183.63	1,077.20	106.43	11.121		
10,500.00	7,435.00	10,718.66	7,660.00	54.95	55.93	-101.02	2,797.06	-522.10	1,178.75	1,069.62	109.13	10.801		
10,600.00	7,435.00	10,818.54	7,660.00	56.34	57.30	-101.06	2,896.93	-520.96	1,173.87	1,062.02	111.85	10.495		
10,700.00	7,435.00	10,918.41	7,660.00	57.75	58.67	-101.11	2,996.80	-519.83	1,169.00	1,054.40	114.60	10.201		
10,800.00	7,435.00	11,018.29	7,660.00	59.17	60.06	-101.16	3,096.67	-518.70	1,164.12	1,046.76	117.36	9.919		
10,900.00	7,435.00	11,118.17	7,660.00	60.60	61.46	-101.21	3,196.54	-517.56	1,159.25	1,039.11	120.14	9.649		
11,000.00	7,435.00	11,218.04	7,660.00	62.04	62.86	-101.25	3,296.41	-516.43	1,154.37	1,031.44	122.94	9.390		
11,100.00	7,435.00	11,317.92	7,660.00	63.48	64.27	-101.30	3,396.28	-515.30	1,149.50	1,023.75	125.75	9.141		
11,200.00	7,435.00	11,400.00	7,660.00	64.94	65.44	-101.34	3,478.36	-514.62	1,145.01	1,016.71	128.30	8.925		
11,300.00	7,435.00	11,473.93	7,660.00	66.40	66.51	-101.36	3,552.28	-515.71	1,142.74	1,012.03	130.71	8.743		
11,337.98	7,435.00	11,500.00	7,660.00	66.96	66.89	-101.36	3,578.33	-516.55	1,142.52	1,010.94	131.58	8.683		
11,400.00	7,435.00	11,545.82	7,660.00	67.87	67.57	-101.35	3,624.10	-518.61	1,142.93	1,009.88	133.05	8.590		
11,500.00	7,435.00	11,638.97	7,660.00	69.34	68.95	-101.34	3,717.09	-524.04	1,144.87	1,009.04	135.83	8.429		
11,600.00	7,435.00	11,738.94	7,660.00	70.83	70.44	-101.32	3,816.90	-529.92	1,146.89	1,008.11	138.77	8.264		
11,700.00	7,435.00	11,838.92	7,660.00	72.31	71.94	-101.30	3,916.71	-535.81	1,148.90	1,007.17	141.73	8.106		
11,800.00	7,435.00	11,938.90	7,660.00	73.81	73.44	-101.28	4,016.51	-541.70	1,150.92	1,006.22	144.70	7.954		
11,900.00	7,435.00	12,038.88	7,660.00	75.31	74.95	-101.26	4,116.32	-547.59	1,152.93	1,005.25	147.68	7.807		
11,978.18	7,435.00	12,117.05	7,660.00	76.25	76.08	-101.24	4,194.35	-552.19	1,154.51	1,004.80	149.71	7.712 SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4M-32H-O268 - 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	-89.55	0.31	-40.01	40.01				
100.00	100.00	100.00	100.00	0.14	0.14	-89.55	0.31	-40.01	40.01	39.73	0.28	144.954	
166.67	166.67	166.67	166.67	0.38	0.38	-89.55	0.31	-40.01	40.01	39.26	0.75	53.066	
200.00	200.00	200.00	200.00	0.50	0.50	-89.55	0.31	-40.01	40.01	39.02	0.99	40.294 CC, ES	
300.00	300.00	299.23	299.21	0.85	0.84	-91.60	-1.14	-40.92	40.94	39.24	1.71	23.984	
400.00	400.00	398.23	398.07	1.21	1.19	-97.18	-5.50	-43.65	44.03	41.59	2.44	18.036	
500.00	500.00	497.00	496.48	1.57	1.55	-104.75	-12.67	-48.13	49.90	46.70	3.19	15.622	
600.00	600.00	596.53	595.54	1.93	1.91	-111.37	-20.83	-53.24	57.34	53.43	3.91	14.674	
700.00	700.00	696.06	694.61	2.29	2.29	-116.42	-28.99	-58.35	65.37	60.75	4.62	14.154	
800.00	800.00	795.59	793.67	2.65	2.67	-120.35	-37.15	-63.45	73.80	68.47	5.33	13.848	
900.00	899.98	895.15	892.76	2.99	3.05	100.17	-45.31	-68.56	82.79	76.76	6.03	13.738	
1,000.00	999.84	994.67	991.82	3.33	3.43	100.58	-53.46	-73.66	92.44	85.72	6.72	13.762	
1,100.00	1,099.45	1,094.05	1,090.72	3.67	3.82	102.79	-61.61	-78.76	102.82	95.40	7.42	13.857	
1,163.41	1,162.43	1,156.92	1,153.30	3.89	4.06	104.85	-66.76	-81.99	109.93	102.06	7.87	13.961	
1,200.00	1,198.73	1,193.17	1,189.38	4.02	4.20	106.19	-69.74	-83.85	114.22	106.08	8.14	14.033	
1,300.00	1,297.93	1,292.22	1,287.97	4.39	4.58	109.39	-77.86	-88.93	126.20	117.33	8.87	14.231	
1,400.00	1,397.13	1,391.28	1,386.56	4.76	4.96	112.03	-85.98	-94.01	138.50	128.90	9.60	14.421	
1,500.00	1,496.32	1,490.33	1,485.15	5.13	5.35	114.23	-94.10	-99.09	151.05	140.70	10.35	14.599	
1,600.00	1,595.52	1,589.39	1,583.74	5.51	5.73	116.10	-102.22	-104.17	163.78	152.69	11.09	14.764	
1,700.00	1,694.71	1,688.44	1,682.34	5.90	6.12	117.70	-110.34	-109.25	176.66	164.82	11.84	14.916	
1,800.00	1,793.91	1,787.50	1,780.93	6.29	6.50	119.07	-118.46	-114.33	189.66	177.06	12.60	15.057	
1,900.00	1,893.11	1,886.56	1,879.52	6.68	6.88	120.27	-126.58	-119.42	202.75	189.39	13.35	15.186	
2,000.00	1,992.30	1,985.61	1,978.11	7.07	7.27	121.33	-134.70	-124.50	215.91	201.81	14.11	15.305	
2,100.00	2,091.50	2,084.67	2,076.70	7.46	7.65	122.26	-142.82	-129.58	229.14	214.28	14.86	15.415	
2,200.00	2,190.70	2,183.72	2,175.29	7.86	8.04	123.10	-150.94	-134.66	242.43	226.80	15.62	15.517	
2,300.00	2,289.89	2,282.78	2,273.88	8.25	8.42	123.84	-159.06	-139.74	255.76	239.37	16.38	15.611	
2,400.00	2,389.09	2,381.83	2,372.47	8.65	8.80	124.51	-167.18	-144.82	269.13	251.98	17.14	15.698	
2,500.00	2,488.29	2,480.89	2,471.07	9.05	9.19	125.12	-175.30	-149.90	282.53	264.62	17.90	15.779	
2,600.00	2,587.48	2,579.94	2,569.66	9.45	9.57	125.67	-183.42	-154.99	295.95	277.29	18.67	15.855	
2,700.00	2,686.68	2,679.00	2,668.25	9.85	9.96	126.18	-191.54	-160.07	309.41	289.98	19.43	15.925	
2,800.00	2,785.88	2,778.06	2,766.84	10.25	10.34	126.64	-199.66	-165.15	322.88	302.69	20.19	15.991	
2,900.00	2,885.07	2,877.11	2,865.43	10.65	10.73	127.07	-207.78	-170.23	336.38	315.42	20.95	16.053	
3,000.00	2,984.27	2,976.17	2,964.02	11.05	11.11	127.46	-215.89	-175.31	349.89	328.17	21.72	16.111	
3,100.00	3,083.47	3,075.22	3,062.61	11.45	11.49	127.82	-224.01	-180.39	363.42	340.93	22.48	16.166	
3,200.00	3,182.66	3,174.28	3,161.21	11.85	11.88	128.16	-232.13	-185.47	376.96	353.71	23.24	16.217	
3,300.00	3,281.86	3,273.33	3,259.80	12.25	12.26	128.48	-240.25	-190.55	390.51	366.50	24.01	16.265	
3,400.00	3,381.05	3,372.39	3,358.39	12.66	12.65	128.77	-248.37	-195.64	404.07	379.30	24.77	16.311	
3,500.00	3,480.25	3,471.44	3,456.98	13.06	13.03	129.04	-256.49	-200.72	417.64	392.10	25.54	16.354	
3,600.00	3,579.45	3,570.50	3,555.57	13.46	13.42	129.30	-264.61	-205.80	431.22	404.92	26.30	16.395	
3,700.00	3,678.64	3,669.56	3,654.16	13.87	13.80	129.54	-272.73	-210.88	444.81	417.74	27.07	16.434	
3,800.00	3,777.84	3,768.61	3,752.75	14.27	14.19	129.77	-280.85	-215.96	458.41	430.58	27.83	16.471	
3,900.00	3,877.04	3,867.67	3,851.35	14.67	14.57	129.98	-288.97	-221.04	472.01	443.41	28.60	16.506	
4,000.00	3,976.23	3,966.72	3,949.94	15.08	14.96	130.18	-297.09	-226.12	485.62	456.26	29.36	16.540	
4,100.00	4,075.43	4,065.78	4,048.53	15.48	15.34	130.37	-305.21	-231.21	499.23	469.11	30.13	16.571	
4,200.00	4,174.63	4,164.83	4,147.12	15.89	15.73	130.55	-313.33	-236.29	512.85	481.96	30.89	16.602	
4,300.00	4,273.82	4,263.89	4,245.71	16.29	16.11	130.73	-321.45	-241.37	526.48	494.82	31.66	16.631	
4,400.00	4,373.02	4,362.95	4,344.30	16.70	16.50	130.89	-329.57	-246.45	540.11	507.68	32.42	16.658	
4,500.00	4,472.22	4,462.00	4,442.89	17.10	16.88	131.04	-337.69	-251.53	553.74	520.55	33.19	16.685	
4,600.00	4,571.41	4,561.06	4,541.48	17.51	17.26	131.19	-345.81	-256.61	567.37	533.42	33.95	16.710	
4,700.00	4,670.61	4,660.11	4,640.08	17.91	17.65	131.33	-353.93	-261.69	581.01	546.30	34.72	16.735	
4,800.00	4,769.81	4,759.17	4,738.67	18.32	18.03	131.46	-362.05	-266.78	594.66	559.17	35.48	16.758	
4,900.00	4,869.00	4,858.22	4,837.26	18.72	18.42	131.59	-370.17	-271.86	608.30	572.05	36.25	16.781	

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4M-32H-O268 - 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	4,968.20	4,957.28	4,935.85	19.13	18.80	131.71	-378.29	-276.94	621.95	584.94	37.02	16.802	
5,100.00	5,067.40	5,056.33	5,034.44	19.53	19.19	131.83	-386.41	-282.02	635.61	597.82	37.78	16.823	
5,200.00	5,166.59	5,155.39	5,133.03	19.94	19.57	131.94	-394.53	-287.10	649.26	610.71	38.55	16.843	
5,300.00	5,265.79	5,254.45	5,231.62	20.34	19.96	132.05	-402.65	-292.18	662.92	623.60	39.31	16.862	
5,400.00	5,364.98	5,353.50	5,330.22	20.75	20.34	132.15	-410.77	-297.26	676.57	636.49	40.08	16.881	
5,500.00	5,464.18	5,452.56	5,428.81	21.15	20.73	132.25	-418.89	-302.34	690.24	649.39	40.85	16.898	
5,600.00	5,563.38	5,551.61	5,527.40	21.56	21.11	132.35	-427.01	-307.43	703.90	662.29	41.61	16.916	
5,700.00	5,662.57	5,650.67	5,625.99	21.97	21.50	132.44	-435.13	-312.51	717.56	675.19	42.38	16.932	
5,800.00	5,761.77	5,749.72	5,724.58	22.37	21.88	132.53	-443.25	-317.59	731.23	688.09	43.14	16.948	
5,900.00	5,860.97	5,848.78	5,823.17	22.78	22.27	132.61	-451.37	-322.67	744.90	700.99	43.91	16.964	
6,000.00	5,960.16	5,947.83	5,921.76	23.18	22.65	132.70	-459.49	-327.75	758.57	713.89	44.68	16.979	
6,100.00	6,059.36	6,046.89	6,020.36	23.59	23.04	132.77	-467.61	-332.83	772.24	726.80	45.44	16.993	
6,200.00	6,158.56	6,145.95	6,118.95	24.00	23.42	132.85	-475.73	-337.91	785.91	739.70	46.21	17.008	
6,300.00	6,257.75	6,245.00	6,217.54	24.40	23.81	132.92	-483.85	-343.00	799.58	752.61	46.98	17.021	
6,400.00	6,356.95	6,344.06	6,316.13	24.81	24.19	133.00	-491.97	-348.08	813.26	765.52	47.74	17.034	
6,500.00	6,456.15	6,443.11	6,414.72	25.21	24.58	133.06	-500.09	-353.16	826.94	778.43	48.51	17.047	
6,600.00	6,555.34	6,542.17	6,513.31	25.62	24.96	133.13	-508.21	-358.24	840.61	791.34	49.28	17.060	
6,702.76	6,657.28	6,643.96	6,614.63	26.04	25.36	133.20	-516.56	-363.46	854.67	804.61	50.06	17.072	
6,750.00	6,704.24	6,690.73	6,661.17	26.22	25.54	163.65	-520.39	-365.86	861.17	810.75	50.42	17.081	
6,800.00	6,754.03	6,740.02	6,710.24	26.40	25.73	-153.90	-524.43	-368.39	868.12	817.35	50.78	17.097	
6,850.00	6,803.66	6,788.87	6,758.86	26.56	25.92	-128.64	-528.44	-370.89	875.18	824.06	51.12	17.120	
6,900.00	6,852.89	6,837.44	6,807.29	26.70	26.10	-116.74	-530.93	-373.39	882.37	830.93	51.44	17.153	
6,950.00	6,901.49	6,886.65	6,856.42	26.83	26.26	-110.40	-530.10	-375.93	889.71	837.97	51.74	17.197	
7,000.00	6,949.20	6,936.55	6,906.06	26.95	26.41	-106.57	-525.81	-378.50	897.15	845.13	52.01	17.248	
7,050.00	6,995.81	6,987.19	6,956.00	27.05	26.54	-104.05	-517.93	-381.09	904.65	852.37	52.28	17.305	
7,100.00	7,041.08	7,038.59	7,006.00	27.15	26.67	-102.28	-506.34	-383.68	912.18	859.65	52.52	17.367	
7,150.00	7,084.79	7,090.80	7,055.81	27.23	26.79	-100.98	-490.92	-386.27	919.69	866.93	52.76	17.432	
7,200.00	7,126.74	7,143.85	7,105.12	27.31	26.90	-99.98	-471.58	-388.85	927.14	874.17	52.98	17.500	
7,250.00	7,166.71	7,197.77	7,153.64	27.37	27.00	-99.21	-448.23	-391.38	934.49	881.31	53.19	17.570	
7,300.00	7,204.52	7,252.57	7,201.02	27.42	27.10	-98.59	-420.83	-393.86	941.70	888.31	53.39	17.639	
7,350.00	7,239.97	7,308.28	7,246.89	27.47	27.19	-98.09	-389.33	-396.27	948.70	895.13	53.58	17.708	
7,400.00	7,272.89	7,364.90	7,290.86	27.51	27.27	-97.68	-353.76	-398.58	955.47	901.71	53.76	17.772	
7,450.00	7,303.14	7,422.42	7,332.52	27.54	27.35	-97.33	-314.18	-400.78	961.94	908.00	53.95	17.832	
7,500.00	7,330.54	7,480.84	7,371.44	27.57	27.43	-97.04	-270.69	-402.84	968.09	913.95	54.13	17.883	
7,550.00	7,354.98	7,540.12	7,407.19	27.60	27.51	-96.80	-223.46	-404.75	973.85	919.51	54.33	17.924	
7,600.00	7,376.34	7,600.22	7,439.32	27.63	27.60	-96.58	-172.72	-406.47	979.18	924.63	54.55	17.951	
7,650.00	7,394.51	7,661.08	7,467.42	27.66	27.71	-96.40	-118.77	-407.98	984.05	929.26	54.79	17.961	
7,700.00	7,409.39	7,722.63	7,491.08	27.71	27.84	-96.23	-61.99	-409.27	988.41	933.35	55.06	17.953	
7,750.00	7,420.93	7,784.78	7,509.94	27.77	27.99	-96.08	-2.80	-410.32	992.23	936.87	55.36	17.924	
7,800.00	7,429.06	7,847.41	7,523.69	27.86	28.16	-95.95	58.28	-411.10	995.48	939.78	55.70	17.873	
7,850.00	7,433.75	7,910.43	7,532.10	27.97	28.37	-95.83	120.71	-411.61	998.14	942.06	56.08	17.799	
7,892.48	7,435.00	7,964.16	7,534.92	28.09	28.57	-95.74	174.35	-411.83	999.91	943.47	56.43	17.718	
7,900.00	7,435.00	7,973.69	7,535.00	28.12	28.60	-95.74	183.88	-411.84	1,000.17	943.67	56.50	17.703	
8,000.00	7,435.00	8,073.89	7,535.00	28.50	29.04	-95.72	284.08	-411.96	1,003.59	946.22	57.36	17.495	
8,100.00	7,435.00	8,173.83	7,535.00	28.99	29.56	-95.70	384.03	-412.08	1,007.00	948.62	58.37	17.251	
8,200.00	7,435.00	8,273.77	7,535.00	29.57	30.16	-95.68	483.97	-412.21	1,010.41	950.88	59.53	16.972	
8,300.00	7,435.00	8,373.72	7,535.00	30.22	30.84	-95.66	583.91	-412.33	1,013.82	952.99	60.83	16.665	
8,400.00	7,435.00	8,473.66	7,535.00	30.94	31.57	-95.64	683.85	-412.45	1,017.24	954.97	62.27	16.337	
8,500.00	7,435.00	8,573.60	7,535.00	31.72	32.38	-95.63	783.79	-412.57	1,020.65	956.83	63.82	15.993	
8,600.00	7,435.00	8,673.54	7,535.00	32.56	33.23	-95.61	883.73	-412.69	1,024.06	958.58	65.49	15.638	
8,700.00	7,435.00	8,773.48	7,535.00	33.44	34.14	-95.59	983.67	-412.81	1,027.48	960.22	67.26	15.276	
8,800.00	7,435.00	8,873.42	7,535.00	34.38	35.10	-95.57	1,083.61	-412.94	1,030.89	961.76	69.13	14.912	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4M-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Total Uncertainty Axis	Separation Factor
8,900.00	7,435.00	8,973.36	7,535.00	35.36	36.10	-95.55	1,183.55	-413.06	1,034.30	963.21		71.09	14.549
9,000.00	7,435.00	9,073.30	7,535.00	36.38	37.15	-95.53	1,283.50	-413.18	1,037.72	964.58		73.13	14.189
9,100.00	7,435.00	9,173.25	7,535.00	37.43	38.23	-95.51	1,383.44	-413.30	1,041.13	965.88		75.25	13.835
9,200.00	7,435.00	9,273.19	7,535.00	38.52	39.34	-95.50	1,483.38	-413.42	1,044.54	967.10		77.44	13.488
9,300.00	7,435.00	9,373.13	7,535.00	39.64	40.49	-95.48	1,583.32	-413.54	1,047.96	968.26		79.69	13.150
9,400.00	7,435.00	9,473.07	7,535.00	40.79	41.66	-95.46	1,683.26	-413.66	1,051.37	969.37		82.00	12.821
9,500.00	7,435.00	9,573.01	7,535.00	41.97	42.86	-95.44	1,783.20	-413.79	1,054.79	970.42		84.37	12.502
9,600.00	7,435.00	9,672.95	7,535.00	43.17	44.09	-95.43	1,883.14	-413.91	1,058.20	971.42		86.78	12.194
9,700.00	7,435.00	9,772.89	7,535.00	44.39	45.34	-95.41	1,983.08	-414.03	1,061.61	972.37		89.24	11.896
9,800.00	7,435.00	9,872.83	7,535.00	45.64	46.61	-95.39	2,083.02	-414.15	1,065.03	973.29		91.74	11.609
9,900.00	7,435.00	9,972.77	7,535.00	46.90	47.89	-95.37	2,182.97	-414.27	1,068.44	974.16		94.28	11.332
9,915.75	7,435.00	9,988.51	7,535.00	47.10	48.10	-95.37	2,198.71	-414.29	1,068.98	974.30		94.68	11.290
10,000.00	7,435.00	10,072.75	7,535.00	48.18	49.20	-95.36	2,282.94	-414.39	1,070.62	973.76		96.86	11.053
10,100.00	7,435.00	10,172.73	7,535.00	49.50	50.52	-95.37	2,382.92	-414.52	1,069.37	969.88		99.50	10.748
10,120.42	7,435.00	10,193.14	7,535.00	49.77	50.79	-95.37	2,403.33	-414.54	1,068.69	968.65		100.04	10.683
10,200.00	7,435.00	10,272.67	7,535.00	50.84	51.86	-95.39	2,482.86	-414.64	1,065.75	963.58		102.17	10.431
10,300.00	7,435.00	10,372.60	7,535.00	52.20	53.21	-95.41	2,582.79	-414.76	1,062.05	957.18		104.87	10.127
10,400.00	7,435.00	10,472.53	7,535.00	53.57	54.57	-95.43	2,682.72	-414.88	1,058.36	950.75		107.60	9.836
10,500.00	7,435.00	10,572.46	7,535.00	54.95	55.94	-95.44	2,782.65	-415.00	1,054.66	944.30		110.36	9.557
10,600.00	7,435.00	10,672.39	7,535.00	56.34	57.33	-95.46	2,882.58	-415.12	1,050.96	937.82		113.14	9.289
10,700.00	7,435.00	10,772.32	7,535.00	57.75	58.72	-95.48	2,982.51	-415.25	1,047.27	931.33		115.94	9.033
10,800.00	7,435.00	10,872.25	7,535.00	59.17	60.13	-95.50	3,082.44	-415.37	1,043.57	924.81		118.76	8.787
10,900.00	7,435.00	10,972.18	7,535.00	60.60	61.54	-95.52	3,182.37	-415.49	1,039.87	918.28		121.59	8.552
11,000.00	7,435.00	11,072.12	7,535.00	62.04	62.96	-95.54	3,282.30	-415.61	1,036.18	911.73		124.45	8.326
11,100.00	7,435.00	11,172.05	7,535.00	63.48	64.39	-95.56	3,382.24	-415.73	1,032.48	905.16		127.32	8.109
11,200.00	7,435.00	11,271.98	7,535.00	64.94	65.83	-95.58	3,482.17	-415.85	1,028.79	898.58		130.21	7.901
11,300.00	7,435.00	11,371.91	7,535.00	66.40	67.27	-95.60	3,582.10	-415.97	1,025.09	891.99		133.10	7.701
11,400.00	7,435.00	11,471.84	7,535.00	67.87	68.72	-95.62	3,682.03	-416.10	1,021.40	885.38		136.02	7.509
11,500.00	7,435.00	11,571.77	7,535.00	69.34	70.18	-95.64	3,781.96	-416.22	1,017.70	878.76		138.94	7.325
11,600.00	7,435.00	11,671.70	7,535.00	70.83	71.64	-95.66	3,881.89	-416.34	1,014.00	872.13		141.88	7.147
11,700.00	7,435.00	11,771.63	7,535.00	72.31	73.11	-95.68	3,981.82	-416.46	1,010.31	865.49		144.82	6.976
11,800.00	7,435.00	11,871.56	7,535.00	73.81	74.58	-95.71	4,081.75	-416.58	1,006.61	858.83		147.78	6.812
11,900.00	7,435.00	11,971.49	7,535.00	75.31	76.05	-95.73	4,181.68	-416.70	1,002.92	852.17		150.75	6.653
11,978.18	7,435.00	12,049.62	7,535.00	76.25	77.21	-95.74	4,259.81	-416.80	1,000.03	847.20		152.83	6.544 SF

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4N-32H-O268 - 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	-89.90	0.05	-29.94	29.94				
100.00	100.00	100.00	100.00	0.14	0.14	-89.90	0.05	-29.94	29.94	29.66	0.28	108.459	
200.00	200.00	200.00	200.00	0.50	0.50	-89.90	0.05	-29.94	29.94	28.94	0.99	30.149	
300.00	300.00	300.00	300.00	0.85	0.85	-89.90	0.05	-29.94	29.94	28.23	1.71	17.508 CC	
400.00	400.00	399.79	399.77	1.21	1.20	-93.15	-1.66	-30.23	30.28	27.86	2.41	12.555 ES	
500.00	500.00	499.33	499.17	1.57	1.54	-102.30	-6.78	-31.10	31.84	28.73	3.12	10.212	
600.00	600.00	598.76	598.27	1.93	1.89	-114.54	-14.83	-32.48	35.74	31.90	3.85	9.293	
700.00	700.00	698.39	697.53	2.29	2.25	-124.46	-23.28	-33.92	41.21	36.65	4.57	9.023	
800.00	800.00	798.02	796.79	2.65	2.62	-131.90	-31.73	-35.36	47.62	42.33	5.28	9.013	
900.00	899.98	897.72	896.12	2.99	2.99	86.78	-40.18	-36.80	54.51	48.52	5.98	9.112	
1,000.00	999.84	997.49	995.51	3.33	3.36	86.97	-48.65	-38.25	61.30	54.63	6.67	9.187	
1,100.00	1,099.45	1,097.19	1,094.84	3.67	3.74	90.04	-57.10	-39.69	68.03	60.65	7.38	9.221	
1,163.41	1,162.43	1,160.32	1,157.74	3.89	3.98	93.10	-62.46	-40.60	72.46	64.63	7.83	9.251	
1,200.00	1,198.73	1,196.73	1,194.02	4.02	4.12	95.05	-65.54	-41.13	75.14	67.04	8.10	9.278	
1,300.00	1,297.93	1,296.23	1,293.14	4.39	4.49	99.72	-73.98	-42.57	82.86	74.03	8.83	9.381	
1,400.00	1,397.13	1,395.72	1,392.27	4.76	4.87	103.57	-82.42	-44.01	91.04	81.46	9.58	9.508	
1,500.00	1,496.32	1,495.21	1,491.39	5.13	5.25	106.78	-90.86	-45.45	99.56	89.23	10.32	9.644	
1,600.00	1,595.52	1,594.71	1,590.52	5.51	5.63	109.48	-99.30	-46.89	108.33	97.26	11.08	9.781	
1,700.00	1,694.71	1,694.20	1,689.64	5.90	6.00	111.77	-107.74	-48.33	117.32	105.49	11.83	9.916	
1,800.00	1,793.91	1,793.70	1,788.77	6.29	6.38	113.73	-116.17	-49.77	126.46	113.87	12.59	10.045	
1,900.00	1,893.11	1,893.19	1,887.89	6.68	6.76	115.43	-124.61	-51.21	135.73	122.38	13.35	10.168	
2,000.00	1,992.30	1,992.69	1,987.02	7.07	7.14	116.90	-133.05	-52.65	145.10	130.99	14.11	10.284	
2,100.00	2,091.50	2,092.18	2,086.15	7.46	7.52	118.20	-141.49	-54.09	154.56	139.68	14.87	10.393	
2,200.00	2,190.70	2,191.68	2,185.27	7.86	7.90	119.35	-149.93	-55.53	164.08	148.45	15.63	10.495	
2,300.00	2,289.89	2,291.17	2,284.40	8.25	8.28	120.37	-158.37	-56.97	173.67	157.27	16.40	10.591	
2,400.00	2,389.09	2,390.66	2,383.52	8.65	8.66	121.29	-166.80	-58.41	183.30	166.14	17.16	10.681	
2,500.00	2,488.29	2,490.16	2,482.65	9.05	9.04	122.11	-175.24	-59.85	192.97	175.05	17.93	10.765	
2,600.00	2,587.48	2,589.65	2,581.77	9.45	9.42	122.86	-183.68	-61.29	202.68	183.99	18.69	10.844	
2,700.00	2,686.68	2,689.15	2,680.90	9.85	9.80	123.53	-192.12	-62.73	212.43	192.97	19.46	10.919	
2,800.00	2,785.88	2,788.64	2,780.02	10.25	10.18	124.15	-200.56	-64.17	222.19	201.97	20.22	10.988	
2,900.00	2,885.07	2,888.14	2,879.15	10.65	10.56	124.72	-209.00	-65.61	231.99	211.00	20.99	11.054	
3,000.00	2,984.27	2,987.63	2,978.28	11.05	10.94	125.24	-217.43	-67.05	241.80	220.05	21.75	11.116	
3,100.00	3,083.47	3,087.13	3,077.40	11.45	11.32	125.72	-225.87	-68.49	251.63	229.11	22.52	11.174	
3,200.00	3,182.66	3,186.62	3,176.53	11.85	11.70	126.16	-234.31	-69.93	261.47	238.19	23.28	11.230	
3,300.00	3,281.86	3,286.11	3,275.65	12.25	12.08	126.57	-242.75	-71.37	271.34	247.28	24.05	11.282	
3,400.00	3,381.05	3,385.61	3,374.78	12.66	12.46	126.95	-251.19	-72.80	281.21	256.39	24.82	11.331	
3,500.00	3,480.25	3,485.10	3,473.90	13.06	12.84	127.31	-259.63	-74.24	291.09	265.51	25.58	11.378	
3,600.00	3,579.45	3,584.60	3,573.03	13.46	13.23	127.64	-268.06	-75.68	300.99	274.64	26.35	11.422	
3,700.00	3,678.64	3,684.09	3,672.15	13.87	13.61	127.95	-276.50	-77.12	310.90	283.78	27.12	11.465	
3,800.00	3,777.84	3,783.59	3,771.28	14.27	13.99	128.24	-284.94	-78.56	320.81	292.92	27.88	11.505	
3,900.00	3,877.04	3,883.08	3,870.41	14.67	14.37	128.52	-293.38	-80.00	330.73	302.08	28.65	11.543	
4,000.00	3,976.23	3,982.58	3,969.53	15.08	14.75	128.78	-301.82	-81.44	340.66	311.24	29.42	11.580	
4,100.00	4,075.43	4,082.07	4,068.66	15.48	15.13	129.02	-310.26	-82.88	350.59	320.41	30.19	11.615	
4,200.00	4,174.63	4,181.56	4,167.78	15.89	15.51	129.25	-318.69	-84.32	360.53	329.58	30.95	11.648	
4,300.00	4,273.82	4,281.06	4,266.91	16.29	15.89	129.47	-327.13	-85.76	370.48	338.76	31.72	11.680	
4,400.00	4,373.02	4,380.55	4,366.03	16.70	16.27	129.68	-335.57	-87.20	380.43	347.94	32.49	11.710	
4,500.00	4,472.22	4,480.05	4,465.16	17.10	16.65	129.87	-344.01	-88.64	390.39	357.13	33.26	11.739	
4,600.00	4,571.41	4,579.54	4,564.28	17.51	17.03	130.06	-352.45	-90.08	400.35	366.33	34.02	11.767	
4,700.00	4,670.61	4,679.04	4,663.41	17.91	17.41	130.24	-360.88	-91.52	410.31	375.52	34.79	11.794	
4,800.00	4,769.81	4,778.53	4,762.53	18.32	17.79	130.41	-369.32	-92.96	420.28	384.72	35.56	11.820	
4,900.00	4,869.00	4,878.03	4,861.66	18.72	18.17	130.57	-377.76	-94.40	430.25	393.93	36.33	11.844	
5,000.00	4,968.20	4,977.52	4,960.79	19.13	18.56	130.72	-386.20	-95.84	440.23	403.13	37.09	11.868	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4N-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.00	5,067.40	5,077.02	5,059.91	19.53	18.94	130.87	-394.64	-97.28	450.21	412.34	37.86	11.891	
5,200.00	5,166.59	5,176.51	5,159.04	19.94	19.32	131.01	-403.08	-98.72	460.19	421.56	38.63	11.913	
5,300.00	5,265.79	5,276.00	5,258.16	20.34	19.70	131.14	-411.51	-100.16	470.17	430.77	39.40	11.934	
5,400.00	5,364.98	5,375.50	5,357.29	20.75	20.08	131.27	-419.95	-101.60	480.16	439.99	40.16	11.955	
5,500.00	5,464.18	5,474.99	5,456.41	21.15	20.46	131.40	-428.39	-103.04	490.14	449.21	40.93	11.975	
5,600.00	5,563.38	5,574.49	5,555.54	21.56	20.84	131.52	-436.83	-104.48	500.13	458.43	41.70	11.994	
5,700.00	5,662.57	5,673.98	5,654.66	21.97	21.22	131.63	-445.27	-105.92	510.13	467.66	42.47	12.012	
5,800.00	5,761.77	5,773.48	5,753.79	22.37	21.60	131.74	-453.71	-107.36	520.12	476.88	43.24	12.030	
5,900.00	5,860.97	5,872.97	5,852.92	22.78	21.98	131.85	-462.14	-108.80	530.12	486.11	44.00	12.047	
6,000.00	5,960.16	5,972.47	5,952.04	23.18	22.36	131.95	-470.58	-110.24	540.11	495.34	44.77	12.064	
6,100.00	6,059.36	6,071.96	6,051.17	23.59	22.74	132.05	-479.02	-111.68	550.11	504.57	45.54	12.080	
6,200.00	6,158.56	6,171.45	6,150.29	24.00	23.13	132.14	-487.46	-113.12	560.11	513.81	46.31	12.096	
6,300.00	6,257.75	6,270.95	6,249.42	24.40	23.51	132.23	-495.90	-114.56	570.12	523.04	47.08	12.111	
6,400.00	6,356.95	6,370.44	6,348.54	24.81	23.89	132.32	-504.34	-116.00	580.12	532.28	47.84	12.125	
6,500.00	6,456.15	6,469.94	6,447.67	25.21	24.27	132.40	-512.77	-117.44	590.13	541.51	48.61	12.140	
6,600.00	6,555.34	6,569.43	6,546.79	25.62	24.65	132.49	-521.21	-118.88	600.13	550.75	49.38	12.153	
6,702.76	6,657.28	6,671.67	6,648.66	26.04	25.04	132.57	-529.88	-120.36	610.42	560.25	50.17	12.167	
6,750.00	6,704.24	6,718.52	6,695.40	26.22	25.21	162.94	-532.89	-121.04	615.20	564.69	50.51	12.179	
6,800.00	6,754.03	6,768.07	6,744.93	26.40	25.37	-154.49	-532.80	-121.76	620.39	569.55	50.84	12.202	
6,850.00	6,803.66	6,817.64	6,794.36	26.56	25.51	-128.88	-529.28	-122.47	625.68	574.54	51.14	12.235	
6,900.00	6,852.89	6,867.21	6,843.43	26.70	25.65	-116.54	-522.36	-123.19	631.04	579.62	51.41	12.274	
6,950.00	6,901.49	6,916.82	6,891.94	26.83	25.78	-109.75	-512.04	-123.89	636.44	584.78	51.66	12.319	
7,000.00	6,949.20	6,964.45	6,939.64	26.95	25.89	-105.49	-498.39	-124.58	641.87	589.97	51.90	12.367	
7,050.00	6,995.81	7,016.11	6,986.31	27.05	26.01	-102.54	-481.46	-125.26	647.29	595.17	52.12	12.418	
7,100.00	7,041.08	7,065.82	7,031.74	27.15	26.11	-100.35	-461.31	-125.92	652.68	600.35	52.33	12.472	
7,150.00	7,084.79	7,115.57	7,075.69	27.23	26.21	-98.65	-438.04	-126.56	658.01	605.48	52.53	12.526	
7,200.00	7,126.74	7,165.38	7,117.98	27.31	26.31	-97.27	-411.74	-127.17	663.26	610.54	52.72	12.580	
7,250.00	7,166.71	7,215.24	7,158.37	27.37	26.41	-96.12	-382.53	-127.76	668.40	615.49	52.91	12.633	
7,300.00	7,204.52	7,265.17	7,196.69	27.42	26.50	-95.14	-350.55	-128.32	673.41	620.31	53.09	12.684	
7,350.00	7,239.97	7,315.15	7,232.72	27.47	26.60	-94.30	-315.92	-128.84	678.25	624.97	53.28	12.730	
7,400.00	7,272.89	7,365.21	7,266.30	27.51	26.70	-93.57	-278.81	-129.33	682.92	629.45	53.47	12.772	
7,450.00	7,303.14	7,415.34	7,297.25	27.54	26.81	-92.93	-239.40	-129.78	687.38	633.70	53.67	12.807	
7,500.00	7,330.54	7,465.53	7,325.40	27.57	26.92	-92.37	-197.85	-130.19	691.61	637.72	53.89	12.835	
7,550.00	7,354.98	7,515.80	7,350.61	27.60	27.04	-91.88	-154.38	-130.55	695.59	641.48	54.12	12.854	
7,600.00	7,376.34	7,566.14	7,372.73	27.63	27.18	-91.45	-109.18	-130.87	699.31	644.95	54.36	12.863	
7,650.00	7,394.51	7,616.54	7,391.65	27.66	27.32	-91.08	-62.47	-131.15	702.74	648.11	54.63	12.863	
7,700.00	7,409.39	7,667.01	7,407.26	27.71	27.48	-90.76	-14.48	-131.38	705.88	650.95	54.93	12.851	
7,750.00	7,420.93	7,717.55	7,419.46	27.77	27.65	-90.49	34.55	-131.55	708.69	653.45	55.24	12.829	
7,800.00	7,429.06	7,768.14	7,428.19	27.86	27.84	-90.27	84.37	-131.68	711.17	655.59	55.58	12.795	
7,850.00	7,433.75	7,818.78	7,433.38	27.97	28.04	-90.10	134.74	-131.75	713.31	657.36	55.95	12.749	
7,892.48	7,435.00	7,861.84	7,434.98	28.09	28.22	-90.00	177.76	-131.78	714.85	658.57	56.28	12.703	
7,900.00	7,435.00	7,869.44	7,435.00	28.12	28.25	-90.00	185.35	-131.78	715.10	658.76	56.34	12.694	
8,000.00	7,435.00	7,969.38	7,435.00	28.50	28.73	-90.00	285.30	-131.78	718.41	661.19	57.22	12.555	
8,100.00	7,435.00	8,069.33	7,435.00	28.99	29.27	-90.00	385.25	-131.78	721.71	663.46	58.25	12.389	
8,200.00	7,435.00	8,167.01	7,435.00	29.57	29.87	-90.00	482.93	-131.78	725.03	665.61	59.41	12.204	
8,300.00	7,435.00	8,248.48	7,435.00	30.22	30.44	-90.00	564.38	-132.94	729.78	669.20	60.58	12.046	
8,400.00	7,435.00	8,343.53	7,435.00	30.94	31.16	-90.00	659.38	-136.19	736.50	674.52	61.98	11.882	
8,500.00	7,435.00	8,443.30	7,435.00	31.72	31.98	-90.00	759.09	-139.68	743.30	679.74	63.55	11.696	
8,600.00	7,435.00	8,543.07	7,435.00	32.56	32.86	-90.00	858.79	-143.16	750.09	684.85	65.24	11.498	
8,700.00	7,435.00	8,642.84	7,435.00	33.44	33.79	-90.00	958.50	-146.64	756.88	689.85	67.03	11.292	
8,800.00	7,435.00	8,742.60	7,435.00	34.38	34.77	-90.00	1,058.21	-150.12	763.68	694.75	68.92	11.080	
8,900.00	7,435.00	8,842.37	7,435.00	35.36	35.80	-90.00	1,157.92	-153.60	770.47	699.56	70.91	10.866	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4N-32H-O268 - 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
9,000.00	7,435.00	8,942.14	7,435.00	36.38	36.87	-90.00	1,257.63	-157.08	777.26	704.29		72.98	10.651
9,100.00	7,435.00	9,041.91	7,435.00	37.43	37.98	-90.00	1,357.33	-160.57	784.06	708.94		75.12	10.437
9,200.00	7,435.00	9,141.68	7,435.00	38.52	39.12	-90.00	1,457.04	-164.05	790.85	713.52		77.34	10.226
9,300.00	7,435.00	9,241.45	7,435.00	39.64	40.30	-90.00	1,556.75	-167.53	797.65	718.03		79.62	10.019
9,400.00	7,435.00	9,369.27	7,435.00	40.79	41.83	-90.00	1,684.53	-170.17	803.11	720.71		82.40	9.746
9,500.00	7,435.00	9,469.21	7,435.00	41.97	43.05	-90.00	1,784.48	-170.17	806.41	721.62		84.79	9.511
9,600.00	7,435.00	9,569.16	7,435.00	43.17	44.29	-90.00	1,884.42	-170.17	809.72	722.50		87.22	9.283
9,700.00	7,435.00	9,669.10	7,435.00	44.39	45.56	-90.00	1,984.37	-170.17	813.03	723.32		89.70	9.063
9,800.00	7,435.00	9,769.05	7,435.00	45.64	46.84	-90.00	2,084.31	-170.17	816.34	724.11		92.22	8.852
9,900.00	7,435.00	9,868.99	7,435.00	46.90	48.14	-90.00	2,184.26	-170.17	819.64	724.86		94.78	8.648
9,915.75	7,435.00	9,884.74	7,435.00	47.10	48.34	-90.00	2,200.00	-170.17	820.17	724.98		95.19	8.616
10,000.00	7,435.00	9,968.97	7,435.00	48.18	49.45	-90.00	2,284.23	-170.17	821.71	724.33		97.38	8.438
10,100.00	7,435.00	10,068.95	7,435.00	49.50	50.79	-90.00	2,384.22	-170.17	820.34	720.30		100.04	8.200
10,120.42	7,435.00	10,089.36	7,435.00	49.77	51.06	-90.00	2,404.63	-170.17	819.63	719.04		100.58	8.149
10,200.00	7,435.00	10,168.88	7,435.00	50.84	52.13	-90.00	2,484.15	-170.17	816.57	713.84		102.73	7.949
10,300.00	7,435.00	10,268.81	7,435.00	52.20	53.49	-90.00	2,584.08	-170.17	812.74	707.28		105.46	7.707
10,400.00	7,435.00	10,368.74	7,435.00	53.57	54.86	-90.00	2,684.00	-170.17	808.90	700.70		108.21	7.476
10,500.00	7,435.00	10,468.66	7,435.00	54.95	56.24	-90.00	2,783.93	-170.17	805.07	694.09		110.98	7.254
10,600.00	7,435.00	10,568.59	7,435.00	56.34	57.64	-90.00	2,883.85	-170.17	801.23	687.46		113.78	7.042
10,700.00	7,435.00	10,668.52	7,435.00	57.75	59.04	-90.00	2,983.78	-170.16	797.40	680.80		116.60	6.839
10,800.00	7,435.00	10,768.44	7,435.00	59.17	60.45	-90.00	3,083.71	-170.16	793.56	674.13		119.43	6.644
10,900.00	7,435.00	10,868.37	7,435.00	60.60	61.87	-90.00	3,183.63	-170.16	789.73	667.44		122.29	6.458
11,000.00	7,435.00	10,968.29	7,435.00	62.04	63.30	-90.00	3,283.56	-170.16	785.90	660.73		125.16	6.279
11,100.00	7,435.00	11,068.22	7,435.00	63.48	64.74	-90.00	3,383.49	-170.16	782.06	654.01		128.05	6.107
11,200.00	7,435.00	11,168.15	7,435.00	64.94	66.18	-90.00	3,483.41	-170.16	778.23	647.27		130.96	5.943
11,300.00	7,435.00	11,268.07	7,435.00	66.40	67.63	-90.00	3,583.34	-170.16	774.39	640.52		133.88	5.784
11,400.00	7,435.00	11,368.00	7,435.00	67.87	69.08	-90.00	3,683.27	-170.16	770.56	633.75		136.81	5.632
11,500.00	7,435.00	11,467.93	7,435.00	69.34	70.54	-90.00	3,783.19	-170.16	766.72	626.97		139.75	5.486
11,600.00	7,435.00	11,567.85	7,435.00	70.83	72.01	-90.00	3,883.12	-170.16	762.89	620.18		142.70	5.346
11,700.00	7,435.00	11,667.78	7,435.00	72.31	73.48	-90.00	3,983.05	-170.16	759.05	613.38		145.67	5.211
11,800.00	7,435.00	11,960.10	7,435.00	73.81	77.44	-90.00	4,266.84	-136.79	744.90	597.09		147.81	5.040
11,900.00	7,435.00	11,960.10	7,435.00	75.31	77.44	-90.00	4,266.84	-136.79	722.90	570.82		152.08	4.754
11,978.18	7,435.00	11,960.10	7,435.00	76.25	77.44	-90.00	4,266.84	-136.79	715.04	561.45		153.59	4.656 SF

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 40-32H-O268 - 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	-89.90	0.03	-19.86	19.86					
100.00	100.00	100.00	100.00	0.14	0.14	-89.90	0.03	-19.86	19.86	19.59	0.28	71.968		
200.00	200.00	200.00	200.00	0.50	0.50	-89.90	0.03	-19.86	19.86	18.87	0.99	20.006		
300.00	300.00	300.14	300.12	0.85	0.84	-94.88	-1.66	-19.41	19.48	17.79	1.70	11.481		
371.82	371.82	371.92	371.82	1.11	1.09	-104.95	-4.95	-18.53	19.18	16.98	2.20	8.713 CC		
400.00	400.00	400.03	399.87	1.21	1.19	-110.38	-6.71	-18.06	19.27	16.87	2.40	8.026 ES		
500.00	500.00	499.66	499.17	1.57	1.55	-132.21	-14.50	-15.98	21.60	18.45	3.14	6.872		
600.00	600.00	599.31	598.47	1.93	1.92	-148.48	-22.56	-13.83	26.50	22.62	3.88	6.832		
700.00	700.00	698.96	697.77	2.29	2.29	-159.11	-30.61	-11.68	32.84	28.24	4.60	7.140		
800.00	800.00	798.61	797.07	2.65	2.66	-166.16	-38.67	-9.53	39.94	34.62	5.31	7.516		
900.00	899.98	898.37	896.48	2.99	3.04	53.16	-46.74	-7.38	46.38	40.37	6.01	7.718		
1,000.00	999.84	998.26	996.02	3.33	3.42	53.75	-54.82	-5.22	50.81	44.11	6.70	7.583		
1,100.00	1,099.45	1,098.17	1,095.58	3.67	3.79	57.31	-62.89	-3.06	53.28	45.87	7.41	7.194		
1,163.41	1,162.43	1,161.48	1,158.66	3.89	4.03	61.05	-68.01	-1.69	54.05	46.18	7.86	6.875		
1,200.00	1,198.73	1,197.99	1,195.05	4.02	4.17	63.54	-70.97	-0.91	54.41	46.28	8.13	6.694		
1,300.00	1,297.93	1,297.78	1,294.49	4.39	4.55	70.13	-79.03	1.25	55.92	47.05	8.87	6.305		
1,400.00	1,397.13	1,397.56	1,393.92	4.76	4.93	76.30	-87.10	3.40	58.13	48.51	9.62	6.041		
1,500.00	1,496.32	1,497.35	1,493.36	5.13	5.31	81.96	-95.17	5.56	60.96	50.58	10.38	5.871		
1,600.00	1,595.52	1,597.14	1,592.80	5.51	5.69	87.08	-103.24	7.71	64.34	53.19	11.15	5.769		
1,700.00	1,694.71	1,696.92	1,692.23	5.90	6.07	91.65	-111.31	9.87	68.17	56.25	11.92	5.717		
1,800.00	1,793.91	1,796.71	1,791.67	6.29	6.45	95.72	-119.38	12.02	72.40	59.70	12.70	5.702		
1,900.00	1,893.11	1,896.49	1,891.10	6.68	6.83	99.32	-127.45	14.18	76.94	63.47	13.47	5.712		
2,000.00	1,992.30	1,996.28	1,990.54	7.07	7.21	102.51	-135.52	16.33	81.76	67.52	14.24	5.740		
2,100.00	2,091.50	2,096.07	2,089.98	7.46	7.59	105.34	-143.58	18.48	86.80	71.78	15.01	5.781		
2,200.00	2,190.70	2,195.85	2,189.41	7.86	7.97	107.85	-151.65	20.64	92.03	76.24	15.78	5.830		
2,300.00	2,289.89	2,295.64	2,288.85	8.25	8.35	110.09	-159.72	22.79	97.41	80.86	16.55	5.884		
2,400.00	2,389.09	2,395.43	2,388.28	8.65	8.73	112.10	-167.79	24.95	102.93	85.61	17.32	5.942		
2,500.00	2,488.29	2,495.21	2,487.72	9.05	9.11	113.89	-175.86	27.10	108.56	90.47	18.09	6.001		
2,600.00	2,587.48	2,595.00	2,587.16	9.45	9.49	115.51	-183.93	29.26	114.29	95.43	18.86	6.061		
2,700.00	2,686.68	2,694.79	2,686.59	9.85	9.87	116.98	-192.00	31.41	120.10	100.48	19.62	6.120		
2,800.00	2,785.88	2,794.57	2,786.03	10.25	10.25	118.30	-200.07	33.57	125.98	105.59	20.39	6.179		
2,900.00	2,885.07	2,894.36	2,885.47	10.65	10.63	119.51	-208.14	35.72	131.93	110.77	21.16	6.236		
3,000.00	2,984.27	2,994.14	2,984.90	11.05	11.01	120.62	-216.20	37.88	137.92	116.00	21.92	6.292		
3,100.00	3,083.47	3,093.93	3,084.34	11.45	11.39	121.63	-224.27	40.03	143.97	121.28	22.69	6.346		
3,200.00	3,182.66	3,193.72	3,183.77	11.85	11.77	122.56	-232.34	42.19	150.05	126.60	23.45	6.399		
3,300.00	3,281.86	3,293.50	3,283.21	12.25	12.15	123.41	-240.41	44.34	156.17	131.96	24.21	6.450		
3,400.00	3,381.05	3,393.29	3,382.65	12.66	12.54	124.21	-248.48	46.49	162.32	137.34	24.98	6.499		
3,500.00	3,480.25	3,493.08	3,482.08	13.06	12.92	124.94	-256.55	48.65	168.50	142.76	25.74	6.546		
3,600.00	3,579.45	3,592.86	3,581.52	13.46	13.30	125.62	-264.62	50.80	174.71	148.21	26.50	6.592		
3,700.00	3,678.64	3,692.65	3,680.96	13.87	13.68	126.26	-272.69	52.96	180.94	153.67	27.27	6.636		
3,800.00	3,777.84	3,792.43	3,780.39	14.27	14.06	126.85	-280.75	55.11	187.19	159.16	28.03	6.678		
3,900.00	3,877.04	3,892.22	3,879.83	14.67	14.44	127.41	-288.82	57.27	193.46	164.67	28.79	6.719		
4,000.00	3,976.23	3,992.01	3,979.26	15.08	14.82	127.93	-296.89	59.42	199.75	170.19	29.56	6.758		
4,100.00	4,075.43	4,091.79	4,078.70	15.48	15.20	128.42	-304.96	61.58	206.05	175.73	30.32	6.796		
4,200.00	4,174.63	4,191.58	4,178.14	15.89	15.58	128.87	-313.03	63.73	212.36	181.28	31.08	6.832		
4,300.00	4,273.82	4,291.37	4,277.57	16.29	15.96	129.31	-321.10	65.89	218.69	186.85	31.84	6.867		
4,400.00	4,373.02	4,391.15	4,377.01	16.70	16.34	129.72	-329.17	68.04	225.03	192.42	32.61	6.901		
4,500.00	4,472.22	4,490.94	4,476.45	17.10	16.72	130.10	-337.24	70.19	231.38	198.01	33.37	6.934		
4,600.00	4,571.41	4,590.73	4,575.88	17.51	17.10	130.47	-345.31	72.35	237.74	203.61	34.13	6.965		
4,700.00	4,670.61	4,690.51	4,675.32	17.91	17.48	130.81	-353.37	74.50	244.11	209.22	34.90	6.996		
4,800.00	4,769.81	4,790.30	4,774.75	18.32	17.86	131.14	-361.44	76.66	250.49	214.83	35.66	7.025		
4,900.00	4,869.00	4,890.08	4,874.19	18.72	18.25	131.45	-369.51	78.81	256.88	220.46	36.42	7.053		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4Q-32H-O268 - 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	4,968.20	4,989.87	4,973.63	19.13	18.63	131.75	-377.58	80.97	263.27	226.09	37.18	7.081	
5,100.00	5,067.40	5,089.66	5,073.06	19.53	19.01	132.03	-385.65	83.12	269.67	231.73	37.94	7.107	
5,200.00	5,166.59	5,189.44	5,172.50	19.94	19.39	132.30	-393.72	85.28	276.08	237.37	38.71	7.132	
5,300.00	5,265.79	5,289.23	5,271.94	20.34	19.77	132.56	-401.79	87.43	282.49	243.02	39.47	7.157	
5,400.00	5,364.98	5,389.02	5,371.37	20.75	20.15	132.81	-409.86	89.59	288.91	248.67	40.23	7.181	
5,500.00	5,464.18	5,488.80	5,470.81	21.15	20.53	133.04	-417.92	91.74	295.33	254.34	40.99	7.204	
5,600.00	5,563.38	5,588.59	5,570.24	21.56	20.91	133.27	-425.99	93.89	301.76	260.00	41.76	7.227	
5,700.00	5,662.57	5,688.38	5,669.68	21.97	21.29	133.49	-434.06	96.05	308.19	265.67	42.52	7.248	
5,800.00	5,761.77	5,788.16	5,769.12	22.37	21.67	133.69	-442.13	98.20	314.62	271.34	43.28	7.269	
5,900.00	5,860.97	5,887.95	5,868.55	22.78	22.05	133.89	-450.20	100.36	321.06	277.02	44.04	7.290	
6,000.00	5,960.16	5,987.73	5,967.99	23.18	22.43	134.08	-458.27	102.51	327.51	282.70	44.81	7.310	
6,100.00	6,059.36	6,087.52	6,067.43	23.59	22.81	134.27	-466.34	104.67	333.96	288.39	45.57	7.329	
6,200.00	6,158.56	6,187.31	6,168.86	24.00	23.19	134.44	-474.41	106.82	340.41	294.08	46.33	7.347	
6,300.00	6,257.75	6,287.09	6,268.30	24.40	23.57	134.61	-482.48	108.98	346.86	299.77	47.09	7.366	
6,400.00	6,356.95	6,386.88	6,365.73	24.81	23.96	134.78	-490.54	111.13	353.32	305.46	47.85	7.383	
6,500.00	6,456.15	6,486.67	6,465.17	25.21	24.34	134.94	-498.61	113.29	359.78	311.16	48.62	7.400	
6,600.00	6,555.34	6,586.45	6,564.61	25.62	24.72	135.09	-506.68	115.44	366.24	316.86	49.38	7.417	
6,702.76	6,657.28	6,688.99	6,666.79	26.04	25.11	135.24	-514.97	117.65	372.88	322.72	50.16	7.433	
6,750.00	6,704.24	6,736.11	6,713.74	26.22	25.29	165.32	-518.78	118.67	375.92	325.40	50.53	7.440	
6,800.00	6,754.03	6,785.79	6,763.25	26.40	25.48	-152.93	-522.80	119.74	379.13	328.22	50.91	7.447	
6,850.00	6,803.66	6,835.04	6,812.32	26.56	25.67	-128.63	-526.78	120.81	382.45	331.14	51.30	7.455	
6,900.00	6,852.89	6,883.60	6,860.71	26.70	25.85	-118.03	-530.71	121.86	386.06	334.36	51.69	7.468	
6,950.00	6,901.49	6,931.91	6,908.88	26.83	26.03	-113.34	-534.25	122.90	390.21	338.13	52.09	7.492	
7,000.00	6,949.20	6,981.45	6,958.40	26.95	26.20	-111.21	-534.97	123.97	394.98	342.52	52.46	7.530	
7,050.00	6,995.81	7,032.08	7,008.92	27.05	26.35	-110.34	-532.16	125.05	400.31	347.52	52.79	7.583	
7,100.00	7,041.08	7,083.87	7,060.27	27.15	26.50	-110.17	-525.60	126.15	406.16	353.07	53.09	7.650	
7,150.00	7,084.79	7,136.89	7,112.21	27.23	26.63	-110.41	-515.06	127.26	412.46	359.12	53.34	7.732	
7,200.00	7,126.74	7,191.21	7,164.46	27.31	26.76	-110.89	-500.30	128.37	419.14	365.61	53.54	7.829	
7,250.00	7,166.71	7,246.90	7,216.72	27.37	26.89	-111.51	-481.11	129.47	426.12	372.46	53.67	7.940	
7,300.00	7,204.52	7,304.03	7,268.60	27.42	27.01	-112.20	-457.27	130.56	433.31	379.59	53.72	8.066	
7,350.00	7,239.97	7,362.64	7,319.68	27.47	27.13	-112.93	-428.59	131.63	440.60	386.92	53.69	8.207	
7,400.00	7,272.89	7,422.76	7,369.47	27.51	27.25	-113.65	-394.93	132.66	447.90	394.33	53.57	8.361	
7,450.00	7,303.14	7,484.43	7,417.42	27.54	27.36	-114.34	-356.19	133.65	455.10	401.72	53.38	8.525	
7,500.00	7,330.54	7,547.62	7,462.91	27.57	27.49	-114.98	-312.37	134.57	462.09	408.95	53.14	8.696	
7,550.00	7,354.98	7,612.32	7,505.30	27.60	27.61	-115.55	-263.53	135.43	468.76	415.91	52.85	8.869	
7,600.00	7,376.34	7,678.46	7,543.90	27.63	27.76	-116.04	-209.86	136.19	475.01	422.45	52.56	9.037	
7,650.00	7,394.51	7,745.93	7,578.01	27.66	27.91	-116.44	-151.67	136.86	480.73	428.43	52.30	9.191	
7,700.00	7,409.39	7,814.61	7,606.95	27.71	28.09	-116.74	-89.43	137.40	485.85	433.73	52.12	9.322	
7,750.00	7,420.93	7,884.31	7,630.10	27.77	28.30	-116.93	-23.71	137.82	490.26	438.21	52.05	9.419	
7,800.00	7,429.06	7,954.82	7,646.90	27.86	28.52	-117.01	44.74	138.10	493.92	441.79	52.13	9.474	
7,850.00	7,433.75	8,025.91	7,656.95	27.97	28.78	-116.97	115.09	138.23	496.76	444.37	52.39	9.482	
7,892.48	7,435.00	8,086.56	7,659.98	28.09	29.02	-116.84	175.64	138.22	498.51	445.75	52.76	9.449	
7,900.00	7,435.00	8,095.72	7,660.00	28.12	29.05	-116.83	184.80	138.21	498.75	445.92	52.83	9.441	
8,000.00	7,435.00	8,195.66	7,660.00	28.50	29.51	-116.65	284.74	138.09	501.81	448.05	53.77	9.333	
8,100.00	7,435.00	8,295.60	7,660.00	28.99	30.04	-116.48	384.68	137.96	504.88	450.04	54.84	9.206	
8,200.00	7,435.00	8,395.54	7,660.00	29.57	30.64	-116.31	484.63	137.84	507.96	451.91	56.05	9.063	
8,300.00	7,435.00	8,495.49	7,660.00	30.22	31.31	-116.14	584.57	137.71	511.04	453.65	57.38	8.906	
8,400.00	7,435.00	8,595.43	7,660.00	30.94	32.05	-115.97	684.51	137.59	514.12	455.29	58.83	8.739	
8,500.00	7,435.00	8,695.37	7,660.00	31.72	32.85	-115.80	784.45	137.47	517.21	456.82	60.39	8.564	
8,600.00	7,435.00	8,795.31	7,660.00	32.56	33.70	-115.64	884.39	137.34	520.30	458.25	62.05	8.385	
8,700.00	7,435.00	8,895.25	7,660.00	33.44	34.60	-115.47	984.33	137.22	523.40	459.59	63.81	8.203	
8,800.00	7,435.00	8,995.19	7,660.00	34.38	35.56	-115.31	1,084.27	137.09	526.50	460.84	65.65	8.019	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4Q-32H-O268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: O-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
8,900.00	7,435.00	9,095.13	7,660.00	35.36	36.55	-115.15	1,184.21	136.97	529.60	462.02	67.58	7.837		
9,000.00	7,435.00	9,195.07	7,660.00	36.38	37.59	-115.00	1,284.15	136.85	532.71	463.13	69.58	7.656		
9,100.00	7,435.00	9,295.01	7,660.00	37.43	38.67	-114.84	1,384.09	136.72	535.82	464.17	71.65	7.479		
9,200.00	7,435.00	9,394.96	7,660.00	38.52	39.78	-114.69	1,484.04	136.60	538.94	465.16	73.78	7.305		
9,300.00	7,435.00	9,494.90	7,660.00	39.64	40.92	-114.54	1,583.98	136.48	542.06	466.09	75.97	7.135		
9,400.00	7,435.00	9,594.84	7,660.00	40.79	42.09	-114.39	1,683.92	136.35	545.18	466.96	78.22	6.970		
9,500.00	7,435.00	9,694.78	7,660.00	41.97	43.28	-114.24	1,783.86	136.23	548.31	467.79	80.52	6.810		
9,600.00	7,435.00	9,794.72	7,660.00	43.17	44.50	-114.09	1,883.80	136.10	551.44	468.58	82.86	6.655		
9,700.00	7,435.00	9,894.66	7,660.00	44.39	45.75	-113.95	1,983.74	135.98	554.58	469.33	85.25	6.506		
9,800.00	7,435.00	9,994.60	7,660.00	45.64	47.01	-113.81	2,083.68	135.86	557.71	470.04	87.67	6.361		
9,900.00	7,435.00	10,094.54	7,660.00	46.90	48.29	-113.66	2,183.62	135.73	560.86	470.72	90.14	6.222		
9,915.75	7,435.00	10,110.28	7,660.00	47.10	48.50	-113.64	2,199.36	135.71	561.35	470.82	90.53	6.201		
10,000.00	7,435.00	10,194.51	7,660.00	48.18	49.60	-113.56	2,283.59	135.61	562.87	470.25	92.62	6.077		
10,100.00	7,435.00	10,294.50	7,660.00	49.50	50.91	-113.62	2,383.58	135.49	561.72	466.64	95.08	5.908		
10,120.42	7,435.00	10,314.91	7,660.00	49.77	51.18	-113.66	2,403.99	135.46	561.09	465.51	95.58	5.870		
10,200.00	7,435.00	10,394.43	7,660.00	50.84	52.25	-113.78	2,483.51	135.36	558.39	460.86	97.53	5.725		
10,300.00	7,435.00	10,494.37	7,660.00	52.20	53.59	-113.93	2,583.45	135.24	554.99	454.99	100.00	5.550		
10,400.00	7,435.00	10,594.30	7,660.00	53.57	54.95	-114.09	2,683.38	135.11	551.60	449.11	102.49	5.382		
10,500.00	7,435.00	10,694.23	7,660.00	54.95	56.32	-114.25	2,783.31	134.99	548.21	443.22	104.99	5.221		
10,600.00	7,435.00	10,794.16	7,660.00	56.34	57.70	-114.41	2,883.24	134.87	544.83	437.32	107.51	5.068		
10,700.00	7,435.00	10,894.09	7,660.00	57.75	59.09	-114.57	2,983.17	134.74	541.46	431.41	110.05	4.920		
10,800.00	7,435.00	10,994.02	7,660.00	59.17	60.50	-114.73	3,083.10	134.62	538.08	425.49	112.59	4.779		
10,900.00	7,435.00	11,093.95	7,660.00	60.60	61.91	-114.90	3,183.03	134.50	534.71	419.56	115.15	4.644		
11,000.00	7,435.00	11,193.88	7,660.00	62.04	63.33	-115.07	3,282.96	134.37	531.35	413.63	117.71	4.514		
11,100.00	7,435.00	11,293.81	7,660.00	63.48	64.75	-115.24	3,382.89	134.25	527.99	407.70	120.29	4.389		
11,200.00	7,435.00	11,393.75	7,660.00	64.94	66.19	-115.41	3,482.83	134.12	524.63	401.77	122.86	4.270		
11,300.00	7,435.00	11,493.68	7,660.00	66.40	67.63	-115.59	3,582.76	134.00	521.28	395.84	125.45	4.155		
11,400.00	7,435.00	11,593.61	7,660.00	67.87	69.08	-115.76	3,682.69	133.88	517.94	389.90	128.04	4.045		
11,500.00	7,435.00	11,693.54	7,660.00	69.34	70.53	-115.94	3,782.62	133.75	514.60	383.97	130.63	3.939		
11,600.00	7,435.00	11,793.47	7,660.00	70.83	71.99	-116.12	3,882.55	133.63	511.26	378.05	133.22	3.838		
11,700.00	7,435.00	11,893.40	7,660.00	72.31	73.45	-116.31	3,982.48	133.51	507.94	372.12	135.81	3.740		
11,800.00	7,435.00	11,993.33	7,660.00	73.81	74.92	-116.50	4,082.41	133.38	504.61	366.20	138.41	3.646		
11,900.00	7,435.00	12,093.26	7,660.00	75.31	76.40	-116.69	4,182.34	133.26	501.29	360.29	141.00	3.555		
11,978.18	7,435.00	12,171.39	7,660.00	76.25	77.55	-116.83	4,260.47	133.16	498.70	355.93	142.78	3.493 SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4P-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.90	0.02	-9.79	9.79				
100.00	100.00	100.00	100.00	0.14	0.14	-89.90	0.02	-9.79	9.79	9.52	0.28	35.477	
200.00	200.00	200.00	200.00	0.50	0.50	-89.90	0.02	-9.79	9.79	8.80	0.99	9.862	
300.00	300.00	300.00	300.00	0.85	0.85	-89.90	0.02	-9.79	9.79	8.08	1.71	5.727	
400.00	400.00	400.00	400.00	1.21	1.21	-89.90	0.02	-9.79	9.79	7.37	2.43	4.035	
500.00	500.00	500.00	500.00	1.57	1.57	-89.90	0.02	-9.79	9.79	6.65	3.14	3.115	
600.00	600.00	600.00	600.00	1.93	1.93	-89.90	0.02	-9.79	9.79	5.93	3.86	2.536	
700.00	700.00	700.00	700.00	2.29	2.29	-89.90	0.02	-9.79	9.79	5.21	4.58	2.139	
800.00	800.00	800.00	800.00	2.65	2.65	-89.90	0.02	-9.79	9.79	4.50	5.29	1.850 CC, ES	
900.00	899.98	899.98	899.98	2.99	3.01	139.35	0.02	-9.79	11.05	5.05	6.00	1.843 SF	
1,000.00	999.84	1,000.16	1,000.14	3.33	3.35	146.99	-1.59	-9.09	14.27	7.60	6.67	2.138	
1,100.00	1,099.45	1,100.44	1,100.28	3.67	3.68	148.88	-6.41	-6.99	18.37	11.02	7.35	2.500	
1,163.41	1,162.43	1,164.06	1,163.68	3.89	3.90	148.44	-11.13	-4.93	21.36	13.58	7.78	2.745	
1,200.00	1,198.73	1,200.74	1,200.19	4.02	4.02	147.58	-14.43	-3.50	23.04	15.01	8.03	2.868	
1,300.00	1,297.93	1,300.64	1,299.57	4.39	4.36	145.20	-23.70	0.54	27.44	18.72	8.73	3.145	
1,400.00	1,397.13	1,400.53	1,398.96	4.76	4.72	143.49	-32.98	4.59	31.88	22.45	9.43	3.380	
1,500.00	1,496.32	1,500.43	1,498.34	5.13	5.08	142.19	-42.26	8.63	36.34	26.19	10.15	3.580	
1,600.00	1,595.52	1,600.33	1,597.72	5.51	5.44	141.18	-51.53	12.67	40.82	29.94	10.88	3.753	
1,700.00	1,694.71	1,700.23	1,697.11	5.90	5.81	140.37	-60.81	16.71	45.30	33.69	11.61	3.902	
1,800.00	1,793.91	1,800.12	1,796.49	6.29	6.17	139.70	-70.09	20.76	49.79	37.45	12.35	4.033	
1,900.00	1,893.11	1,900.02	1,895.87	6.68	6.55	139.15	-79.37	24.80	54.29	41.20	13.09	4.148	
2,000.00	1,992.30	1,999.92	1,995.26	7.07	6.92	138.68	-88.64	28.84	58.79	44.96	13.84	4.249	
2,100.00	2,091.50	2,099.82	2,094.64	7.46	7.30	138.28	-97.92	32.88	63.30	48.71	14.59	4.339	
2,200.00	2,190.70	2,199.71	2,194.03	7.86	7.67	137.93	-107.20	36.93	67.81	52.46	15.34	4.420	
2,300.00	2,289.89	2,299.61	2,293.41	8.25	8.05	137.62	-116.48	40.97	72.32	56.22	16.10	4.493	
2,400.00	2,389.09	2,399.51	2,392.79	8.65	8.43	137.35	-125.75	45.01	76.83	59.97	16.85	4.558	
2,500.00	2,488.29	2,499.41	2,492.18	9.05	8.81	137.11	-135.03	49.05	81.34	63.73	17.61	4.618	
2,600.00	2,587.48	2,599.30	2,591.56	9.45	9.19	136.90	-144.31	53.10	85.86	67.48	18.37	4.672	
2,700.00	2,686.68	2,699.20	2,690.94	9.85	9.58	136.70	-153.58	57.14	90.37	71.23	19.14	4.722	
2,800.00	2,785.88	2,799.10	2,790.33	10.25	9.96	136.53	-162.86	61.18	94.89	74.99	19.90	4.768	
2,900.00	2,885.07	2,899.00	2,887.71	10.65	10.34	136.37	-172.14	65.23	99.41	78.74	20.67	4.810	
3,000.00	2,984.27	2,998.89	2,989.09	11.05	10.73	136.22	-181.42	69.27	103.92	82.49	21.43	4.849	
3,100.00	3,083.47	3,098.79	3,088.48	11.45	11.11	136.09	-190.69	73.31	108.44	86.24	22.20	4.885	
3,200.00	3,182.66	3,198.69	3,187.86	11.85	11.50	135.97	-199.97	77.35	112.96	89.99	22.97	4.918	
3,300.00	3,281.86	3,298.59	3,287.25	12.25	11.88	135.85	-209.25	81.40	117.48	93.75	23.74	4.949	
3,400.00	3,381.05	3,398.48	3,386.63	12.66	12.27	135.75	-218.53	85.44	122.00	97.50	24.51	4.979	
3,500.00	3,480.25	3,498.38	3,486.01	13.06	12.65	135.65	-227.80	89.48	126.52	101.25	25.28	5.006	
3,600.00	3,579.45	3,598.28	3,585.40	13.46	13.04	135.56	-237.08	93.52	131.05	105.00	26.05	5.031	
3,700.00	3,678.64	3,698.18	3,684.78	13.87	13.43	135.48	-246.36	97.57	135.57	108.75	26.82	5.055	
3,800.00	3,777.84	3,798.08	3,784.16	14.27	13.81	135.40	-255.63	101.61	140.09	112.50	27.59	5.078	
3,900.00	3,877.04	3,897.97	3,883.55	14.67	14.20	135.33	-264.91	105.65	144.61	116.25	28.36	5.099	
4,000.00	3,976.23	3,997.87	3,982.93	15.08	14.59	135.26	-274.19	109.69	149.13	120.00	29.13	5.119	
4,100.00	4,075.43	4,097.77	4,082.31	15.48	14.97	135.19	-283.47	113.74	153.65	123.75	29.91	5.138	
4,200.00	4,174.63	4,197.67	4,181.70	15.89	15.36	135.13	-292.74	117.78	158.18	127.50	30.68	5.156	
4,300.00	4,273.82	4,297.56	4,281.08	16.29	15.75	135.07	-302.02	121.82	162.70	131.25	31.45	5.173	
4,400.00	4,373.02	4,397.46	4,380.47	16.70	16.14	135.01	-311.30	125.87	167.22	135.00	32.23	5.189	
4,500.00	4,472.22	4,497.36	4,479.85	17.10	16.53	134.96	-320.58	129.91	171.75	138.75	33.00	5.205	
4,600.00	4,571.41	4,597.26	4,579.23	17.51	16.91	134.91	-329.85	133.95	176.27	142.50	33.77	5.219	
4,700.00	4,670.61	4,697.15	4,678.62	17.91	17.30	134.87	-339.13	137.99	180.79	146.25	34.55	5.233	
4,800.00	4,769.81	4,797.05	4,778.00	18.32	17.69	134.82	-348.41	142.04	185.32	149.99	35.32	5.246	
4,900.00	4,869.00	4,896.95	4,877.38	18.72	18.08	134.78	-357.68	146.08	189.84	153.74	36.10	5.259	
5,000.00	4,968.20	4,996.85	4,976.77	19.13	18.47	134.74	-366.96	150.12	194.36	157.49	36.87	5.271	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4P-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.00	5,067.40	5,096.74	5,076.15	19.53	18.86	134.70	-376.24	154.16	198.89	161.24	37.65	5.283	
5,200.00	5,166.59	5,196.64	5,175.53	19.94	19.24	134.66	-385.52	158.21	203.41	164.99	38.42	5.294	
5,300.00	5,265.79	5,296.54	5,274.92	20.34	19.63	134.63	-394.79	162.25	207.93	168.74	39.20	5.305	
5,400.00	5,364.98	5,396.44	5,374.30	20.75	20.02	134.59	-404.07	166.29	212.46	172.49	39.97	5.315	
5,500.00	5,464.18	5,496.33	5,473.69	21.15	20.41	134.56	-413.35	170.33	216.98	176.23	40.75	5.325	
5,600.00	5,563.38	5,596.23	5,573.07	21.56	20.80	134.53	-422.63	174.38	221.51	179.98	41.52	5.334	
5,700.00	5,662.57	5,696.13	5,672.45	21.97	21.19	134.50	-431.90	178.42	226.03	183.73	42.30	5.343	
5,800.00	5,761.77	5,796.03	5,771.84	22.37	21.58	134.47	-441.18	182.46	230.55	187.48	43.08	5.352	
5,900.00	5,860.97	5,895.92	5,871.22	22.78	21.97	134.44	-450.46	186.50	235.08	191.23	43.85	5.361	
6,000.00	5,960.16	5,995.82	5,970.60	23.18	22.36	134.42	-459.73	190.55	239.60	194.97	44.63	5.369	
6,100.00	6,059.36	6,095.72	6,069.99	23.59	22.74	134.39	-469.01	194.59	244.13	198.72	45.41	5.377	
6,200.00	6,158.56	6,195.62	6,169.37	24.00	23.13	134.37	-478.29	198.63	248.65	202.47	46.18	5.384	
6,300.00	6,257.75	6,295.51	6,268.75	24.40	23.52	134.34	-487.57	202.68	253.18	206.22	46.96	5.392	
6,400.00	6,356.95	6,395.41	6,368.14	24.81	23.91	134.32	-496.84	206.72	257.70	209.97	47.73	5.399	
6,500.00	6,456.15	6,495.31	6,467.52	25.21	24.30	134.30	-506.12	210.76	262.23	213.71	48.51	5.405	
6,600.00	6,555.34	6,595.21	6,566.91	25.62	24.69	134.27	-515.40	214.80	266.75	217.46	49.29	5.412	
6,702.76	6,657.28	6,697.86	6,669.03	26.04	25.09	134.25	-524.93	218.96	271.40	221.31	50.09	5.419	
6,750.00	6,704.24	6,745.02	6,715.94	26.22	25.28	164.09	-529.31	220.87	273.55	223.09	50.46	5.421	
6,800.00	6,754.03	6,794.66	6,765.35	26.40	25.47	-154.55	-533.81	222.87	275.92	225.05	50.87	5.424	
6,850.00	6,803.66	6,844.33	6,814.92	26.56	25.65	-130.35	-535.84	224.89	278.50	227.25	51.26	5.433	
6,900.00	6,852.89	6,894.41	6,864.93	26.70	25.81	-119.37	-534.40	226.91	281.31	229.70	51.61	5.450	
6,950.00	6,901.49	6,944.90	6,915.12	26.83	25.95	-113.92	-529.41	228.94	284.32	232.38	51.94	5.474	
7,000.00	6,949.20	6,995.82	6,965.25	26.95	26.09	-110.95	-520.81	230.97	287.51	235.28	52.24	5.504	
7,050.00	6,995.81	7,047.17	7,015.07	27.05	26.22	-109.25	-508.55	232.97	290.87	238.36	52.51	5.540	
7,100.00	7,041.08	7,098.96	7,064.29	27.15	26.34	-108.26	-492.60	234.95	294.36	241.62	52.75	5.581	
7,150.00	7,084.79	7,151.19	7,112.63	27.23	26.45	-107.68	-472.95	236.89	297.96	245.01	52.95	5.627	
7,200.00	7,126.74	7,203.86	7,159.80	27.31	26.56	-107.37	-449.62	238.77	301.65	248.53	53.12	5.679	
7,250.00	7,166.71	7,256.97	7,205.50	27.37	26.66	-107.22	-422.64	240.59	305.38	252.12	53.26	5.734	
7,300.00	7,204.52	7,310.50	7,249.42	27.42	26.76	-107.17	-392.10	242.33	309.13	255.76	53.36	5.793	
7,350.00	7,239.97	7,364.46	7,291.25	27.47	26.85	-107.18	-358.08	243.99	312.86	259.42	53.44	5.854	
7,400.00	7,272.89	7,418.82	7,330.69	27.51	26.94	-107.23	-320.72	245.54	316.56	263.05	53.51	5.916	
7,450.00	7,303.14	7,473.58	7,367.43	27.54	27.03	-107.28	-280.17	246.98	320.18	266.62	53.56	5.978	
7,500.00	7,330.54	7,528.70	7,401.19	27.57	27.13	-107.33	-236.63	248.30	323.69	270.08	53.61	6.038	
7,550.00	7,354.98	7,584.16	7,431.68	27.60	27.24	-107.37	-190.34	249.48	327.07	273.39	53.67	6.094	
7,600.00	7,376.34	7,639.93	7,458.64	27.63	27.35	-107.39	-141.54	250.51	330.28	276.52	53.76	6.144	
7,650.00	7,394.51	7,695.98	7,481.83	27.66	27.48	-107.38	-90.53	251.39	333.31	279.44	53.88	6.186	
7,700.00	7,409.39	7,752.27	7,501.04	27.71	27.63	-107.34	-37.64	252.10	336.13	282.09	54.04	6.220	
7,750.00	7,420.93	7,808.76	7,516.08	27.77	27.80	-107.26	16.79	252.64	338.72	284.46	54.26	6.242	
7,800.00	7,429.06	7,865.41	7,526.82	27.86	27.98	-107.16	72.40	253.01	341.06	286.52	54.54	6.253	
7,850.00	7,433.75	7,922.17	7,533.14	27.97	28.18	-107.02	128.79	253.19	343.14	288.26	54.88	6.252	
7,892.48	7,435.00	7,970.44	7,534.99	28.09	28.36	-106.87	177.02	253.21	344.69	289.46	55.22	6.242	
7,900.00	7,435.00	7,978.37	7,535.00	28.12	28.39	-106.86	184.94	253.20	344.93	289.65	55.29	6.239	
8,000.00	7,435.00	8,078.31	7,535.00	28.50	28.84	-106.70	284.88	253.08	348.22	292.02	56.20	6.196	
8,100.00	7,435.00	8,178.25	7,535.00	28.99	29.37	-106.54	384.83	252.95	351.51	294.26	57.25	6.139	
8,200.00	7,435.00	8,278.19	7,535.00	29.57	29.97	-106.38	484.77	252.83	354.80	296.35	58.45	6.070	
8,300.00	7,435.00	8,378.13	7,535.00	30.22	30.64	-106.22	584.71	252.70	358.10	298.32	59.78	5.990	
8,400.00	7,435.00	8,478.08	7,535.00	30.94	31.38	-106.07	684.65	252.58	361.39	300.16	61.23	5.902	
8,500.00	7,435.00	8,578.02	7,535.00	31.72	32.18	-105.92	784.59	252.45	364.69	301.89	62.81	5.807	
8,600.00	7,435.00	8,677.96	7,535.00	32.56	33.04	-105.78	884.53	252.33	367.99	303.51	64.49	5.707	
8,700.00	7,435.00	8,777.90	7,535.00	33.44	33.95	-105.63	984.47	252.21	371.30	305.03	66.27	5.603	
8,800.00	7,435.00	8,877.84	7,535.00	34.38	34.91	-105.49	1,084.41	252.08	374.60	306.46	68.14	5.498	
8,900.00	7,435.00	8,977.78	7,535.00	35.36	35.91	-105.35	1,184.35	251.96	377.91	307.81	70.10	5.391	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4P-32H-O268 - 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
9,000.00	7,435.00	9,077.72	7,535.00	36.38	36.96	-105.22	1,284.29	251.83	381.22	309.09		72.14	5.285
9,100.00	7,435.00	9,177.66	7,535.00	37.43	38.04	-105.08	1,384.24	251.71	384.54	310.29		74.25	5.179
9,200.00	7,435.00	9,277.60	7,535.00	38.52	39.15	-104.95	1,484.18	251.58	387.85	311.42		76.43	5.075
9,300.00	7,435.00	9,377.55	7,535.00	39.64	40.30	-104.82	1,584.12	251.46	391.17	312.50		78.67	4.972
9,400.00	7,435.00	9,477.49	7,535.00	40.79	41.48	-104.69	1,684.06	251.34	394.49	313.52		80.97	4.872
9,500.00	7,435.00	9,577.43	7,535.00	41.97	42.68	-104.57	1,784.00	251.21	397.81	314.49		83.32	4.774
9,600.00	7,435.00	9,677.37	7,535.00	43.17	43.91	-104.44	1,883.94	251.09	401.13	315.41		85.72	4.679
9,700.00	7,435.00	9,777.31	7,535.00	44.39	45.16	-104.32	1,983.88	250.96	404.46	316.29		88.17	4.587
9,800.00	7,435.00	9,877.25	7,535.00	45.64	46.43	-104.20	2,083.82	250.84	407.78	317.13		90.65	4.498
9,900.00	7,435.00	9,977.19	7,535.00	46.90	47.72	-104.09	2,183.76	250.71	411.11	317.94		93.17	4.412
9,915.75	7,435.00	9,992.93	7,535.00	47.10	47.92	-104.07	2,199.50	250.69	411.64	318.06		93.57	4.399
10,000.00	7,435.00	10,077.16	7,535.00	48.18	49.03	-104.00	2,283.73	250.59	413.24	317.51		95.73	4.317
10,100.00	7,435.00	10,177.15	7,535.00	49.50	50.35	-104.05	2,383.72	250.47	412.02	313.72		98.31	4.191
10,120.42	7,435.00	10,197.56	7,535.00	49.77	50.62	-104.08	2,404.13	250.44	411.36	312.53		98.83	4.162
10,200.00	7,435.00	10,277.08	7,535.00	50.84	51.69	-104.18	2,483.66	250.34	408.50	307.60		100.90	4.048
10,300.00	7,435.00	10,377.02	7,535.00	52.20	53.04	-104.31	2,583.59	250.22	404.90	301.38		103.52	3.911
10,400.00	7,435.00	10,476.95	7,535.00	53.57	54.41	-104.44	2,683.52	250.09	401.31	295.14		106.17	3.780
10,500.00	7,435.00	10,576.88	7,535.00	54.95	55.78	-104.57	2,783.45	249.97	397.71	288.88		108.83	3.654
10,600.00	7,435.00	10,676.81	7,535.00	56.34	57.17	-104.71	2,883.38	249.84	394.12	282.61		111.51	3.534
10,700.00	7,435.00	10,776.74	7,535.00	57.75	58.57	-104.85	2,983.31	249.72	390.54	276.32		114.21	3.419
10,800.00	7,435.00	10,876.67	7,535.00	59.17	59.97	-104.99	3,083.24	249.60	386.95	270.02		116.93	3.309
10,900.00	7,435.00	10,976.60	7,535.00	60.60	61.39	-105.13	3,183.17	249.47	383.37	263.71		119.66	3.204
11,000.00	7,435.00	11,076.53	7,535.00	62.04	62.81	-105.28	3,283.10	249.35	379.79	257.39		122.40	3.103
11,100.00	7,435.00	11,176.46	7,535.00	63.48	64.24	-105.43	3,383.03	249.22	376.21	251.06		125.15	3.006
11,200.00	7,435.00	11,276.40	7,535.00	64.94	65.68	-105.58	3,482.97	249.10	372.63	244.72		127.91	2.913
11,300.00	7,435.00	11,376.33	7,535.00	66.40	67.13	-105.73	3,582.90	248.97	369.06	238.37		130.68	2.824
11,400.00	7,435.00	11,476.26	7,535.00	67.87	68.58	-105.89	3,682.83	248.85	365.49	232.03		133.46	2.739
11,500.00	7,435.00	11,576.19	7,535.00	69.34	70.04	-106.05	3,782.76	248.73	361.92	225.67		136.25	2.656
11,600.00	7,435.00	11,676.12	7,535.00	70.83	71.50	-106.21	3,882.69	248.60	358.36	219.32		139.04	2.577
11,700.00	7,435.00	11,776.05	7,535.00	72.31	72.97	-106.38	3,982.62	248.48	354.79	212.96		141.83	2.501
11,800.00	7,435.00	11,875.98	7,535.00	73.81	74.44	-106.55	4,082.55	248.35	351.24	206.60		144.63	2.428
11,900.00	7,435.00	11,975.91	7,535.00	75.31	75.92	-106.73	4,182.48	248.23	347.68	200.25		147.43	2.358
11,978.18	7,435.00	12,054.04	7,535.00	76.25	77.08	-106.87	4,260.61	248.13	344.90	195.52		149.38	2.309

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4R-32H-O268 - 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	90.10	-0.02	10.07	10.07				
100.00	100.00	100.00	100.00	0.14	0.14	90.10	-0.02	10.07	10.07	9.80	0.28	36.491	
200.00	200.00	200.00	200.00	0.50	0.50	90.10	-0.02	10.07	10.07	9.08	0.99	10.144	
300.00	300.00	300.00	300.00	0.85	0.85	90.10	-0.02	10.07	10.07	8.36	1.71	5.891	
400.00	400.00	400.00	400.00	1.21	1.21	90.10	-0.02	10.07	10.07	7.65	2.43	4.150	
500.00	500.00	500.00	500.00	1.57	1.57	90.10	-0.02	10.07	10.07	6.93	3.14	3.204	
600.00	600.00	600.00	600.00	1.93	1.93	90.10	-0.02	10.07	10.07	6.21	3.86	2.609	
700.00	700.00	700.00	700.00	2.29	2.29	90.10	-0.02	10.07	10.07	5.49	4.58	2.200 CC, ES	
800.00	800.00	799.67	799.65	2.65	2.63	94.91	-0.99	11.51	11.56	6.27	5.29	2.186 SF	
900.00	899.98	899.19	899.03	2.99	2.97	-37.19	-3.90	15.80	14.88	8.90	5.98	2.489	
1,000.00	999.84	998.59	998.05	3.33	3.32	-36.05	-8.74	22.94	18.66	11.99	6.67	2.798	
1,100.00	1,099.45	1,097.84	1,096.57	3.67	3.67	-37.07	-15.49	32.91	22.81	15.45	7.37	3.097	
1,163.41	1,162.43	1,160.70	1,158.72	3.89	3.91	-38.33	-20.75	40.67	25.65	17.84	7.81	3.284	
1,200.00	1,198.73	1,197.20	1,194.73	4.02	4.05	-39.06	-24.07	45.57	27.41	19.34	8.07	3.398	
1,300.00	1,297.93	1,297.08	1,293.29	4.39	4.43	-40.63	-33.16	59.00	32.24	23.47	8.77	3.676	
1,400.00	1,397.13	1,396.96	1,391.84	4.76	4.83	-41.79	-42.26	72.42	37.10	27.61	9.49	3.909	
1,500.00	1,496.32	1,496.84	1,490.40	5.13	5.23	-42.69	-51.35	85.84	41.97	31.75	10.22	4.106	
1,600.00	1,595.52	1,596.72	1,588.95	5.51	5.64	-43.39	-60.45	99.27	46.84	35.88	10.96	4.273	
1,700.00	1,694.71	1,696.60	1,687.50	5.90	6.05	-43.97	-69.54	112.69	51.72	40.02	11.71	4.418	
1,800.00	1,793.91	1,796.47	1,786.06	6.29	6.46	-44.44	-78.64	126.11	56.61	44.15	12.46	4.543	
1,900.00	1,893.11	1,896.35	1,884.61	6.68	6.88	-44.84	-87.73	139.54	61.50	48.28	13.22	4.652	
2,000.00	1,992.30	1,996.23	1,983.17	7.07	7.30	-45.18	-96.83	152.96	66.39	52.41	13.98	4.749	
2,100.00	2,091.50	2,096.11	2,081.72	7.46	7.72	-45.48	-105.92	166.38	71.28	56.54	14.75	4.834	
2,200.00	2,190.70	2,195.99	2,180.28	7.86	8.14	-45.73	-115.01	179.81	76.18	60.66	15.51	4.910	
2,300.00	2,289.89	2,295.87	2,278.83	8.25	8.57	-45.96	-124.11	193.23	81.07	64.79	16.29	4.978	
2,400.00	2,389.09	2,395.75	2,377.39	8.65	8.99	-46.16	-133.20	206.65	85.97	68.91	17.06	5.040	
2,500.00	2,488.29	2,495.63	2,475.94	9.05	9.42	-46.33	-142.30	220.08	90.87	73.04	17.83	5.096	
2,600.00	2,587.48	2,595.51	2,574.50	9.45	9.85	-46.49	-151.39	233.50	95.77	77.16	18.61	5.146	
2,700.00	2,686.68	2,695.39	2,673.05	9.85	10.28	-46.64	-160.49	246.92	100.67	81.28	19.39	5.192	
2,800.00	2,785.88	2,795.27	2,771.61	10.25	10.71	-46.77	-169.58	260.35	105.57	85.40	20.17	5.235	
2,900.00	2,885.07	2,895.15	2,870.16	10.65	11.14	-46.89	-178.68	273.77	110.47	89.52	20.95	5.274	
3,000.00	2,984.27	2,995.03	2,968.72	11.05	11.57	-47.00	-187.77	287.19	115.37	93.64	21.73	5.310	
3,100.00	3,083.47	3,094.91	3,067.27	11.45	12.00	-47.10	-196.86	300.61	120.27	97.76	22.51	5.343	
3,200.00	3,182.66	3,194.79	3,165.83	11.85	12.43	-47.19	-205.96	314.04	125.17	101.88	23.29	5.374	
3,300.00	3,281.86	3,294.67	3,264.38	12.25	12.86	-47.27	-215.05	327.46	130.08	106.00	24.08	5.402	
3,400.00	3,381.05	3,394.55	3,362.94	12.66	13.29	-47.35	-224.15	340.88	134.98	110.12	24.86	5.429	
3,500.00	3,480.25	3,494.43	3,461.49	13.06	13.72	-47.43	-233.24	354.31	139.88	114.23	25.65	5.454	
3,600.00	3,579.45	3,594.31	3,560.04	13.46	14.15	-47.50	-242.34	367.73	144.78	118.35	26.43	5.477	
3,700.00	3,678.64	3,694.19	3,658.60	13.87	14.59	-47.56	-251.43	381.15	149.69	122.47	27.22	5.499	
3,800.00	3,777.84	3,794.07	3,757.15	14.27	15.02	-47.62	-260.53	394.58	154.59	126.59	28.01	5.520	
3,900.00	3,877.04	3,893.95	3,855.71	14.67	15.45	-47.68	-269.62	408.00	159.50	130.70	28.79	5.539	
4,000.00	3,976.23	3,993.83	3,954.26	15.08	15.89	-47.73	-278.71	421.42	164.40	134.82	29.58	5.558	
4,100.00	4,075.43	4,093.71	4,052.82	15.48	16.32	-47.78	-287.81	434.85	169.30	138.93	30.37	5.575	
4,200.00	4,174.63	4,193.58	4,151.37	15.89	16.75	-47.83	-296.90	448.27	174.21	143.05	31.16	5.591	
4,300.00	4,273.82	4,293.46	4,249.93	16.29	17.19	-47.87	-306.00	461.69	179.11	147.16	31.95	5.607	
4,400.00	4,373.02	4,393.34	4,348.48	16.70	17.62	-47.91	-315.09	475.12	184.01	151.28	32.73	5.621	
4,500.00	4,472.22	4,493.22	4,447.04	17.10	18.06	-47.95	-324.19	488.54	188.92	155.39	33.52	5.635	
4,600.00	4,571.41	4,593.10	4,545.59	17.51	18.49	-47.99	-333.28	501.96	193.82	159.51	34.31	5.649	
4,700.00	4,670.61	4,692.98	4,644.15	17.91	18.92	-48.03	-342.38	515.39	198.73	163.62	35.10	5.661	
4,800.00	4,769.81	4,792.86	4,742.70	18.32	19.36	-48.06	-351.47	528.81	203.63	167.74	35.89	5.673	
4,900.00	4,869.00	4,892.74	4,841.26	18.72	19.79	-48.09	-360.57	542.23	208.54	171.85	36.68	5.685	
5,000.00	4,968.20	4,992.62	4,939.81	19.13	20.23	-48.13	-369.66	555.66	213.44	175.97	37.47	5.696	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4R-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.00	5,067.40	5,092.50	5,038.37	19.53	20.66	-48.16	-378.75	569.08	218.35	180.08	38.26	5.706	
5,200.00	5,166.59	5,192.38	5,136.92	19.94	21.10	-48.18	-387.85	582.50	223.25	184.20	39.05	5.716	
5,300.00	5,265.79	5,292.26	5,235.48	20.34	21.53	-48.21	-396.94	595.93	228.16	188.31	39.85	5.726	
5,400.00	5,364.98	5,392.14	5,334.03	20.75	21.97	-48.24	-406.04	609.35	233.06	192.42	40.64	5.735	
5,500.00	5,464.18	5,492.02	5,432.59	21.15	22.40	-48.26	-415.13	622.77	237.96	196.54	41.43	5.744	
5,600.00	5,563.38	5,591.90	5,531.14	21.56	22.84	-48.29	-424.23	636.20	242.87	200.65	42.22	5.753	
5,700.00	5,662.57	5,691.78	5,629.69	21.97	23.27	-48.31	-433.32	649.62	247.77	204.77	43.01	5.761	
5,800.00	5,761.77	5,791.66	5,728.25	22.37	23.71	-48.33	-442.42	663.04	252.68	208.88	43.80	5.769	
5,900.00	5,860.97	5,891.54	5,826.80	22.78	24.14	-48.35	-451.51	676.47	257.58	212.99	44.59	5.776	
6,000.00	5,960.16	5,991.42	5,925.36	23.18	24.58	-48.37	-460.60	689.89	262.49	217.11	45.38	5.784	
6,100.00	6,059.36	6,091.30	6,023.91	23.59	25.01	-48.39	-469.70	703.31	267.39	221.22	46.18	5.791	
6,200.00	6,158.56	6,191.18	6,122.47	24.00	25.45	-48.41	-478.79	716.74	272.30	225.33	46.97	5.798	
6,300.00	6,257.75	6,291.06	6,221.02	24.40	25.88	-48.43	-487.89	730.16	277.21	229.45	47.76	5.804	
6,400.00	6,356.95	6,390.94	6,319.58	24.81	26.32	-48.45	-496.98	743.58	282.11	233.56	48.55	5.811	
6,500.00	6,456.15	6,490.82	6,418.13	25.21	26.75	-48.47	-506.08	757.01	287.02	237.67	49.34	5.817	
6,600.00	6,555.34	6,590.69	6,516.69	25.62	27.19	-48.48	-515.17	770.43	291.92	241.79	50.14	5.823	
6,702.76	6,657.28	6,693.33	6,617.96	26.04	27.64	-48.50	-524.52	784.22	296.96	246.01	50.95	5.828	
6,750.00	6,704.24	6,740.49	6,664.49	26.22	27.84	-18.38	-528.81	790.56	299.19	247.90	51.29	5.833	
6,800.00	6,754.03	6,790.18	6,713.53	26.40	28.06	24.57	-533.34	797.24	301.42	249.84	51.57	5.844	
6,850.00	6,803.66	6,839.43	6,762.12	26.56	28.27	51.16	-537.82	803.86	303.65	251.87	51.78	5.864	
6,900.00	6,852.89	6,889.20	6,811.36	26.70	28.48	64.78	-540.52	810.56	306.07	254.12	51.95	5.892	
6,950.00	6,901.49	6,939.70	6,861.37	26.83	28.67	72.82	-539.73	817.37	308.65	256.54	52.11	5.923	
7,000.00	6,949.20	6,990.95	6,911.95	26.95	28.85	78.32	-535.29	824.24	311.39	259.13	52.26	5.958	
7,050.00	6,995.81	7,042.98	6,962.85	27.05	29.00	82.47	-527.06	831.16	314.24	261.84	52.40	5.997	
7,100.00	7,041.08	7,095.81	7,013.79	27.15	29.15	85.83	-514.91	838.08	317.19	264.66	52.53	6.038	
7,150.00	7,084.79	7,149.47	7,064.48	27.23	29.27	88.67	-498.73	844.96	320.18	267.55	52.63	6.083	
7,200.00	7,126.74	7,203.97	7,114.58	27.31	29.39	91.14	-478.43	851.75	323.19	270.48	52.71	6.131	
7,250.00	7,166.71	7,259.31	7,163.73	27.37	29.48	93.34	-453.93	858.41	326.15	273.40	52.75	6.183	
7,300.00	7,204.52	7,315.49	7,211.57	27.42	29.57	95.30	-425.23	864.89	329.03	276.28	52.75	6.237	
7,350.00	7,239.97	7,372.50	7,257.69	27.47	29.64	97.08	-392.32	871.12	331.77	279.07	52.70	6.295	
7,400.00	7,272.89	7,430.32	7,301.67	27.51	29.69	98.69	-355.28	877.06	334.32	281.71	52.61	6.354	
7,450.00	7,303.14	7,488.93	7,343.07	27.54	29.73	100.15	-314.20	882.65	336.64	284.15	52.49	6.414	
7,500.00	7,330.54	7,548.27	7,381.47	27.57	29.75	101.46	-269.27	887.82	338.67	286.34	52.33	6.471	
7,550.00	7,354.98	7,608.30	7,416.42	27.60	29.76	102.64	-220.71	892.52	340.36	288.19	52.17	6.524	
7,600.00	7,376.34	7,668.95	7,447.52	27.63	29.75	103.68	-168.83	896.69	341.68	289.66	52.02	6.569	
7,650.00	7,394.51	7,730.15	7,474.38	27.66	29.73	104.59	-113.98	900.28	342.58	290.68	51.90	6.601	
7,700.00	7,409.39	7,791.80	7,496.65	27.71	29.71	105.36	-56.59	903.24	343.02	291.19	51.83	6.618	
7,750.00	7,420.93	7,853.81	7,514.04	27.77	29.67	106.01	2.87	905.54	342.99	291.14	51.85	6.615	
7,800.00	7,429.06	7,916.07	7,526.30	27.86	29.62	106.52	63.87	907.13	342.46	290.49	51.97	6.590	
7,850.00	7,433.75	7,978.48	7,533.28	27.97	29.57	106.89	125.86	908.01	341.42	289.22	52.21	6.540	
7,892.48	7,435.00	8,030.88	7,535.00	28.09	29.52	107.11	178.22	908.18	340.14	287.64	52.50	6.479	
7,900.00	7,435.00	8,038.41	7,535.00	28.12	29.51	107.12	185.74	908.17	339.89	287.35	52.54	6.469	
8,000.00	7,435.00	8,138.35	7,535.00	28.50	29.43	107.29	285.69	908.05	336.62	283.41	53.21	6.327	
8,100.00	7,435.00	8,238.29	7,535.00	28.99	29.70	107.47	385.63	907.93	333.35	279.32	54.02	6.170	
8,200.00	7,435.00	8,338.23	7,535.00	29.57	30.30	107.65	485.57	907.81	330.08	275.09	54.99	6.002	
8,300.00	7,435.00	8,438.17	7,535.00	30.22	30.97	107.83	585.51	907.69	326.81	270.71	56.10	5.825	
8,400.00	7,435.00	8,538.11	7,535.00	30.94	31.70	108.01	685.45	907.57	323.55	266.21	57.34	5.642	
8,500.00	7,435.00	8,638.05	7,535.00	31.72	32.49	108.20	785.39	907.45	320.29	261.58	58.71	5.456	
8,600.00	7,435.00	8,737.99	7,535.00	32.56	33.34	108.40	885.33	907.33	317.04	256.85	60.19	5.268	
8,700.00	7,435.00	8,837.93	7,535.00	33.44	34.23	108.59	985.27	907.21	313.79	252.02	61.77	5.080	
8,800.00	7,435.00	8,937.88	7,535.00	34.38	35.17	108.80	1,085.21	907.09	310.54	247.09	63.45	4.894	
8,900.00	7,435.00	9,037.82	7,535.00	35.36	36.15	109.00	1,185.16	906.97	307.29	242.08	65.22	4.712	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4R-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
9,000.00	7,435.00	9,137.76	7,535.00	36.38	37.17	109.21	1,285.10	906.85	304.06	236.99	67.06	4.534	
9,100.00	7,435.00	9,237.70	7,535.00	37.43	38.23	109.43	1,385.04	906.73	300.82	231.84	68.98	4.361	
9,200.00	7,435.00	9,337.64	7,535.00	38.52	39.32	109.65	1,484.98	906.61	297.59	226.63	70.96	4.194	
9,300.00	7,435.00	9,437.58	7,535.00	39.64	40.44	109.87	1,584.92	906.49	294.36	221.36	73.00	4.032	
9,400.00	7,435.00	9,537.52	7,535.00	40.79	41.59	110.10	1,684.86	906.37	291.14	216.05	75.09	3.877	
9,500.00	7,435.00	9,637.46	7,535.00	41.97	42.77	110.33	1,784.80	906.25	287.92	210.69	77.23	3.728	
9,600.00	7,435.00	9,737.41	7,535.00	43.17	43.98	110.57	1,884.74	906.13	284.71	205.30	79.41	3.585	
9,700.00	7,435.00	9,837.35	7,535.00	44.39	45.20	110.82	1,984.68	906.01	281.50	199.88	81.63	3.449	
9,800.00	7,435.00	9,937.29	7,535.00	45.64	46.45	111.07	2,084.63	905.89	278.30	194.42	83.88	3.318	
9,900.00	7,435.00	10,037.23	7,535.00	46.90	47.72	111.33	2,184.57	905.77	275.11	188.95	86.16	3.193	
9,915.75	7,435.00	10,052.97	7,535.00	47.10	47.92	111.37	2,200.31	905.75	274.60	188.09	86.52	3.174	
10,000.00	7,435.00	10,137.20	7,535.00	48.18	49.01	111.48	2,284.54	905.65	273.07	184.54	88.52	3.085	
10,013.97	7,435.00	10,151.18	7,535.00	48.37	49.19	111.48	2,298.51	905.63	273.04	184.16	88.87	3.072	
10,100.00	7,435.00	10,237.19	7,535.00	49.50	50.31	111.39	2,384.53	905.53	274.24	183.14	91.10	3.010	
10,120.42	7,435.00	10,257.59	7,535.00	49.77	50.58	111.35	2,404.93	905.50	274.88	183.23	91.65	2.999	
10,200.00	7,435.00	10,337.12	7,535.00	50.84	51.63	111.13	2,484.46	905.41	277.63	183.81	93.82	2.959	
10,300.00	7,435.00	10,437.05	7,535.00	52.20	52.96	110.85	2,584.39	905.29	281.10	184.52	96.58	2.910	
10,400.00	7,435.00	10,536.98	7,535.00	53.57	54.31	110.59	2,684.32	905.17	284.58	185.21	99.37	2.864	
10,500.00	7,435.00	10,636.91	7,535.00	54.95	55.66	110.33	2,784.25	905.05	288.06	185.88	102.18	2.819	
10,600.00	7,435.00	10,736.85	7,535.00	56.34	57.03	110.07	2,884.18	904.93	291.54	186.54	105.01	2.776	
10,700.00	7,435.00	10,836.78	7,535.00	57.75	58.41	109.83	2,984.11	904.81	295.04	187.18	107.86	2.735	
10,800.00	7,435.00	10,936.71	7,535.00	59.17	59.81	109.58	3,084.04	904.69	298.53	187.80	110.73	2.696	
10,900.00	7,435.00	11,036.64	7,535.00	60.60	61.21	109.35	3,183.98	904.57	302.04	188.42	113.62	2.658	
11,000.00	7,435.00	11,136.57	7,535.00	62.04	62.61	109.12	3,283.91	904.45	305.54	189.02	116.52	2.622	
11,100.00	7,435.00	11,236.50	7,535.00	63.48	64.03	108.89	3,383.84	904.33	309.06	189.61	119.45	2.587	
11,200.00	7,435.00	11,336.43	7,535.00	64.94	65.46	108.67	3,483.77	904.21	312.57	190.19	122.38	2.554	
11,300.00	7,435.00	11,436.36	7,535.00	66.40	66.89	108.45	3,583.70	904.09	316.10	190.76	125.33	2.522	
11,400.00	7,435.00	11,536.29	7,535.00	67.87	68.33	108.24	3,683.63	903.97	319.62	191.33	128.30	2.491	
11,500.00	7,435.00	11,636.22	7,535.00	69.34	69.77	108.04	3,783.56	903.85	323.15	191.88	131.27	2.462	
11,600.00	7,435.00	11,736.16	7,535.00	70.83	71.22	107.84	3,883.49	903.73	326.69	192.43	134.26	2.433	
11,700.00	7,435.00	11,836.09	7,535.00	72.31	72.68	107.64	3,983.42	903.61	330.22	192.97	137.25	2.406	
11,800.00	7,435.00	11,936.02	7,535.00	73.81	74.14	107.45	4,083.35	903.49	333.77	193.51	140.26	2.380	
11,900.00	7,435.00	12,035.95	7,535.00	75.31	75.61	107.26	4,183.28	903.37	337.31	194.04	143.28	2.354	
11,978.18	7,435.00	12,111.15	7,535.00	76.25	76.72	107.12	4,258.48	903.28	340.10	194.66	145.44	2.338	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4S-32H-O268 - 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	90.10	-0.03	20.14	20.14					
100.00	100.00	100.00	100.00	0.14	0.14	90.10	-0.03	20.14	20.14	19.87	0.28	72.982		
200.00	200.00	200.00	200.00	0.50	0.50	90.10	-0.03	20.14	20.14	19.15	0.99	20.287		
300.00	300.00	300.00	300.00	0.85	0.85	90.10	-0.03	20.14	20.14	18.43	1.71	11.781		
400.00	400.00	400.00	400.00	1.21	1.21	90.10	-0.03	20.14	20.14	17.72	2.43	8.301		
500.00	500.00	500.00	500.00	1.57	1.57	90.10	-0.03	20.14	20.14	17.00	3.14	6.408		
566.67	566.67	566.67	566.67	1.81	1.81	90.10	-0.03	20.14	20.14	16.52	3.62	5.562		
600.00	600.00	600.00	600.00	1.93	1.93	90.10	-0.03	20.14	20.14	16.28	3.86	5.218	CC, ES	
700.00	700.00	699.36	699.34	2.29	2.27	92.38	-0.90	21.63	21.66	17.09	4.57	4.738		
800.00	800.00	798.47	798.31	2.65	2.61	97.62	-3.49	26.08	26.37	21.08	5.29	4.987		
900.00	899.98	897.27	896.73	2.99	2.96	-35.91	-7.79	33.46	33.09	27.09	5.99	5.520		
1,000.00	999.84	995.80	994.55	3.33	3.32	-34.68	-13.77	43.74	40.31	33.61	6.69	6.023		
1,100.00	1,099.45	1,094.07	1,091.62	3.67	3.69	-34.93	-21.41	56.87	47.93	40.54	7.39	6.483		
1,163.41	1,162.43	1,157.16	1,153.75	3.89	3.94	-35.75	-26.95	66.39	52.51	44.68	7.83	6.709		
1,200.00	1,198.73	1,193.68	1,189.70	4.02	4.08	-36.44	-30.16	71.90	54.83	46.75	8.08	6.784		
1,300.00	1,297.93	1,293.46	1,287.95	4.39	4.49	-38.05	-38.93	86.97	61.22	52.43	8.79	6.964		
1,400.00	1,397.13	1,393.24	1,386.20	4.76	4.90	-39.35	-47.70	102.03	67.65	58.14	9.51	7.112		
1,500.00	1,496.32	1,493.02	1,484.44	5.13	5.32	-40.43	-56.47	117.10	74.11	63.86	10.24	7.234		
1,600.00	1,595.52	1,592.81	1,582.69	5.51	5.74	-41.33	-65.24	132.17	80.59	69.60	10.98	7.336		
1,700.00	1,694.71	1,692.59	1,680.94	5.90	6.17	-42.10	-74.01	147.23	87.09	75.35	11.73	7.422		
1,800.00	1,793.91	1,792.37	1,779.19	6.29	6.60	-42.77	-82.78	162.30	93.60	81.11	12.49	7.495		
1,900.00	1,893.11	1,892.15	1,877.43	6.68	7.03	-43.34	-91.55	177.37	100.12	86.87	13.25	7.557		
2,000.00	1,992.30	1,991.93	1,975.68	7.07	7.46	-43.85	-100.32	192.43	106.65	92.64	14.01	7.611		
2,100.00	2,091.50	2,091.72	2,073.93	7.46	7.90	-44.30	-109.09	207.50	113.18	98.41	14.78	7.658		
2,200.00	2,190.70	2,191.50	2,172.18	7.86	8.34	-44.69	-117.86	222.56	119.73	104.18	15.55	7.700		
2,300.00	2,289.89	2,291.28	2,270.43	8.25	8.77	-45.05	-126.63	237.63	126.28	109.95	16.32	7.736		
2,400.00	2,389.09	2,391.06	2,368.67	8.65	9.21	-45.37	-135.41	252.70	132.83	115.73	17.10	7.768		
2,500.00	2,488.29	2,490.85	2,466.92	9.05	9.65	-45.66	-144.18	267.76	139.39	121.51	17.88	7.797		
2,600.00	2,587.48	2,590.63	2,565.17	9.45	10.09	-45.93	-152.95	282.83	145.95	127.29	18.66	7.823		
2,700.00	2,686.68	2,690.41	2,663.42	9.85	10.54	-46.17	-161.72	297.90	152.51	133.07	19.44	7.846		
2,800.00	2,785.88	2,790.19	2,761.66	10.25	10.98	-46.39	-170.49	312.96	159.08	138.85	20.22	7.867		
2,900.00	2,885.07	2,889.98	2,859.91	10.65	11.42	-46.60	-179.26	328.03	165.64	144.64	21.01	7.886		
3,000.00	2,984.27	2,989.76	2,958.16	11.05	11.86	-46.79	-188.03	343.10	172.21	150.42	21.79	7.903		
3,100.00	3,083.47	3,089.54	3,056.41	11.45	12.31	-46.96	-196.80	358.16	178.78	156.21	22.58	7.919		
3,200.00	3,182.66	3,189.32	3,154.65	11.85	12.75	-47.13	-205.57	373.23	185.36	161.99	23.36	7.934		
3,300.00	3,281.86	3,289.11	3,252.90	12.25	13.19	-47.28	-214.34	388.29	191.93	167.78	24.15	7.947		
3,400.00	3,381.05	3,388.89	3,351.15	12.66	13.64	-47.42	-223.11	403.36	198.51	173.57	24.94	7.959		
3,500.00	3,480.25	3,488.67	3,449.40	13.06	14.08	-47.55	-231.88	418.43	205.08	179.35	25.73	7.971		
3,600.00	3,579.45	3,588.45	3,547.65	13.46	14.53	-47.68	-240.65	433.49	211.66	185.14	26.52	7.981		
3,700.00	3,678.64	3,688.24	3,645.89	13.87	14.97	-47.79	-249.42	448.56	218.24	190.93	27.31	7.991		
3,800.00	3,777.84	3,788.02	3,744.14	14.27	15.42	-47.90	-258.19	463.63	224.82	196.72	28.10	8.001		
3,900.00	3,877.04	3,887.80	3,842.39	14.67	15.86	-48.01	-266.96	478.69	231.40	202.51	28.89	8.009		
4,000.00	3,976.23	3,987.58	3,940.64	15.08	16.31	-48.11	-275.73	493.76	237.98	208.30	29.68	8.017		
4,100.00	4,075.43	4,087.37	4,038.88	15.48	16.75	-48.20	-284.50	508.83	244.56	214.09	30.48	8.025		
4,200.00	4,174.63	4,187.15	4,137.13	15.89	17.20	-48.29	-293.27	523.89	251.14	219.88	31.27	8.032		
4,300.00	4,273.82	4,286.93	4,235.38	16.29	17.64	-48.37	-302.04	538.96	257.73	225.67	32.06	8.038		
4,400.00	4,373.02	4,386.71	4,333.63	16.70	18.09	-48.45	-310.81	554.02	264.31	231.46	32.86	8.045		
4,500.00	4,472.22	4,486.50	4,431.88	17.10	18.54	-48.53	-319.58	569.09	270.89	237.25	33.65	8.051		
4,600.00	4,571.41	4,586.28	4,530.12	17.51	18.98	-48.60	-328.35	584.16	277.48	243.04	34.44	8.056		
4,700.00	4,670.61	4,686.06	4,628.37	17.91	19.43	-48.67	-337.12	599.22	284.06	248.83	35.24	8.062		
4,800.00	4,769.81	4,785.84	4,726.62	18.32	19.88	-48.73	-345.89	614.29	290.65	254.62	36.03	8.067		
4,900.00	4,869.00	4,885.62	4,824.87	18.72	20.32	-48.79	-354.66	629.36	297.23	260.41	36.83	8.071		

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

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4S-32H-O268 - 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	4,968.20	4,985.41	4,923.11	19.13	20.77	-48.85	-363.43	644.42	303.82	266.20	37.62	8.076	
5,100.00	5,067.40	5,085.19	5,021.36	19.53	21.22	-48.91	-372.20	659.49	310.41	271.99	38.42	8.080	
5,200.00	5,166.59	5,184.97	5,119.61	19.94	21.66	-48.97	-380.97	674.56	316.99	277.78	39.21	8.084	
5,300.00	5,265.79	5,284.75	5,217.86	20.34	22.11	-49.02	-389.74	689.62	323.58	283.57	40.01	8.088	
5,400.00	5,364.98	5,384.54	5,316.11	20.75	22.56	-49.07	-398.51	704.69	330.17	289.36	40.80	8.092	
5,500.00	5,464.18	5,484.32	5,414.35	21.15	23.00	-49.12	-407.28	719.75	336.75	295.15	41.60	8.095	
5,600.00	5,563.38	5,584.10	5,512.60	21.56	23.45	-49.16	-416.05	734.82	343.34	300.95	42.39	8.099	
5,700.00	5,662.57	5,683.88	5,610.85	21.97	23.90	-49.21	-424.82	749.89	349.93	306.74	43.19	8.102	
5,800.00	5,761.77	5,783.67	5,709.10	22.37	24.34	-49.25	-433.60	764.95	356.52	312.53	43.99	8.105	
5,900.00	5,860.97	5,883.45	5,807.34	22.78	24.79	-49.29	-442.37	780.02	363.10	318.32	44.78	8.108	
6,000.00	5,960.16	5,983.23	5,905.59	23.18	25.24	-49.33	-451.14	795.09	369.69	324.11	45.58	8.111	
6,100.00	6,059.36	6,083.01	6,003.84	23.59	25.69	-49.37	-459.91	810.15	376.28	329.90	46.37	8.114	
6,200.00	6,158.56	6,182.80	6,102.09	24.00	26.13	-49.41	-468.68	825.22	382.87	335.70	47.17	8.116	
6,300.00	6,257.75	6,282.58	6,200.33	24.40	26.58	-49.45	-477.45	840.29	389.46	341.49	47.97	8.119	
6,400.00	6,356.95	6,382.36	6,298.58	24.81	27.03	-49.48	-486.22	855.35	396.05	347.28	48.77	8.121	
6,500.00	6,456.15	6,482.14	6,396.83	25.21	27.47	-49.52	-494.99	870.42	402.63	353.07	49.56	8.124	
6,600.00	6,555.34	6,581.93	6,495.08	25.62	27.92	-49.55	-503.76	885.48	409.22	358.86	50.36	8.126	
6,702.76	6,657.28	6,684.46	6,596.04	26.04	28.38	-49.58	-512.77	900.97	415.99	364.82	51.18	8.128	
6,750.00	6,704.24	6,731.58	6,642.43	26.22	28.59	-19.62	-516.91	908.08	418.99	367.47	51.53	8.132	
6,800.00	6,754.03	6,781.24	6,691.33	26.40	28.82	23.00	-521.28	915.58	421.94	370.11	51.83	8.141	
6,850.00	6,803.66	6,830.46	6,739.79	26.56	29.04	49.09	-525.60	923.01	424.75	372.68	52.07	8.157	
6,900.00	6,852.89	6,878.99	6,787.57	26.70	29.25	62.33	-529.87	930.34	427.62	375.37	52.25	8.184	
6,950.00	6,901.49	6,926.60	6,834.45	26.83	29.47	70.37	-534.05	937.53	430.81	378.42	52.38	8.224	
7,000.00	6,949.20	6,973.05	6,880.19	26.95	29.68	76.17	-538.14	944.54	434.62	382.15	52.46	8.284	
7,050.00	6,995.81	7,021.39	6,927.86	27.05	29.89	80.93	-541.34	951.85	439.30	386.75	52.54	8.361	
7,100.00	7,041.08	7,071.86	6,977.74	27.15	30.09	84.95	-541.28	959.49	444.71	392.07	52.64	8.448	
7,150.00	7,084.79	7,124.05	7,029.17	27.23	30.28	88.47	-537.48	967.37	450.80	398.05	52.75	8.546	
7,200.00	7,126.74	7,178.12	7,082.03	27.31	30.45	91.63	-529.56	975.46	457.48	404.63	52.85	8.655	
7,250.00	7,166.71	7,234.24	7,136.10	27.37	30.61	94.52	-517.10	983.73	464.65	411.72	52.93	8.778	
7,300.00	7,204.52	7,292.59	7,191.13	27.42	30.76	97.20	-499.64	992.14	472.19	419.23	52.96	8.916	
7,350.00	7,239.97	7,353.35	7,246.73	27.47	30.89	99.70	-476.71	1,000.64	479.96	427.06	52.90	9.072	
7,400.00	7,272.89	7,416.69	7,302.43	27.51	31.00	102.03	-447.83	1,009.14	487.81	435.06	52.75	9.248	
7,450.00	7,303.14	7,482.74	7,357.59	27.54	31.09	104.20	-412.53	1,017.55	495.55	443.08	52.47	9.445	
7,500.00	7,330.54	7,551.61	7,411.44	27.57	31.17	106.21	-370.42	1,025.75	503.01	450.95	52.06	9.663	
7,550.00	7,354.98	7,623.36	7,463.01	27.60	31.22	108.05	-321.20	1,033.59	509.99	458.46	51.52	9.898	
7,600.00	7,376.34	7,697.96	7,511.18	27.63	31.25	109.72	-264.76	1,040.91	516.28	465.38	50.90	10.143	
7,650.00	7,394.51	7,775.28	7,554.72	27.66	31.25	111.20	-201.24	1,047.50	521.70	471.46	50.24	10.384	
7,700.00	7,409.39	7,855.10	7,592.29	27.71	31.24	112.47	-131.10	1,053.17	526.06	476.43	49.62	10.601	
7,750.00	7,420.93	7,937.04	7,622.60	27.77	31.20	113.52	-55.16	1,057.73	529.17	480.04	49.14	10.769	
7,800.00	7,429.06	8,020.61	7,644.47	27.86	31.14	114.32	25.39	1,060.98	530.92	482.04	48.88	10.862	
7,850.00	7,433.75	8,105.22	7,657.03	27.97	31.07	114.87	109.00	1,062.80	531.18	482.25	48.93	10.857	
7,892.48	7,435.00	8,174.73	7,660.00	28.09	31.01	115.12	178.41	1,063.18	530.21	480.99	49.22	10.771	
7,900.00	7,435.00	8,182.25	7,660.00	28.12	31.00	115.13	185.93	1,063.17	529.98	480.72	49.26	10.758	
8,000.00	7,435.00	8,282.19	7,660.00	28.50	30.92	115.29	285.87	1,063.05	526.88	477.02	49.86	10.568	
8,100.00	7,435.00	8,382.13	7,660.00	28.99	30.90	115.45	385.82	1,062.93	523.78	473.18	50.60	10.351	
8,200.00	7,435.00	8,482.08	7,660.00	29.57	31.12	115.62	485.76	1,062.81	520.69	469.19	51.50	10.111	
8,300.00	7,435.00	8,582.02	7,660.00	30.22	31.71	115.78	585.70	1,062.68	517.60	465.07	52.53	9.853	
8,400.00	7,435.00	8,681.96	7,660.00	30.94	32.42	115.95	685.64	1,062.56	514.51	460.81	53.70	9.582	
8,500.00	7,435.00	8,781.90	7,660.00	31.72	33.18	116.11	785.58	1,062.44	511.43	456.44	54.99	9.301	
8,600.00	7,435.00	8,881.84	7,660.00	32.56	34.01	116.28	885.52	1,062.32	508.35	451.96	56.39	9.015	
8,700.00	7,435.00	8,981.78	7,660.00	33.44	34.88	116.46	985.46	1,062.20	505.28	447.38	57.90	8.727	
8,800.00	7,435.00	9,081.72	7,660.00	34.38	35.80	116.63	1,085.40	1,062.08	502.21	442.72	59.50	8.441	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4S-32H-O268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
8,900.00	7,435.00	9,181.66	7,660.00	35.36	36.77	116.81	1,185.34	1,061.96	499.15	437.97	61.18	8.158		
9,000.00	7,435.00	9,281.60	7,660.00	36.38	37.77	116.99	1,285.29	1,061.84	496.09	433.14	62.95	7.881		
9,100.00	7,435.00	9,381.55	7,660.00	37.43	38.81	117.17	1,385.23	1,061.72	493.04	428.26	64.78	7.611		
9,200.00	7,435.00	9,481.49	7,660.00	38.52	39.88	117.35	1,485.17	1,061.60	489.99	423.31	66.68	7.348		
9,300.00	7,435.00	9,581.43	7,660.00	39.64	40.99	117.53	1,585.11	1,061.48	486.95	418.31	68.64	7.095		
9,400.00	7,435.00	9,681.37	7,660.00	40.79	42.13	117.72	1,685.05	1,061.36	483.91	413.26	70.64	6.850		
9,500.00	7,435.00	9,781.31	7,660.00	41.97	43.29	117.91	1,784.99	1,061.24	480.88	408.18	72.70	6.615		
9,600.00	7,435.00	9,881.25	7,660.00	43.17	44.48	118.10	1,884.93	1,061.12	477.85	403.06	74.79	6.389		
9,700.00	7,435.00	9,981.19	7,660.00	44.39	45.69	118.30	1,984.87	1,061.00	474.83	397.90	76.92	6.173		
9,800.00	7,435.00	10,081.13	7,660.00	45.64	46.93	118.50	2,084.81	1,060.87	471.81	392.72	79.09	5.966		
9,900.00	7,435.00	10,181.08	7,660.00	46.90	48.18	118.70	2,184.76	1,060.75	468.80	387.52	81.28	5.768		
9,915.75	7,435.00	10,196.82	7,660.00	47.10	48.38	118.73	2,200.50	1,060.73	468.32	386.70	81.63	5.737		
10,000.00	7,435.00	10,281.05	7,660.00	48.18	49.45	118.81	2,284.73	1,060.63	466.88	383.32	83.56	5.587		
10,013.99	7,435.00	10,295.04	7,660.00	48.37	49.63	118.81	2,298.72	1,060.62	466.85	382.95	83.90	5.565		
10,100.00	7,435.00	10,381.03	7,660.00	49.50	50.74	118.75	2,384.71	1,060.51	467.98	381.94	86.04	5.439		
10,120.42	7,435.00	10,401.44	7,660.00	49.77	51.01	118.71	2,405.12	1,060.49	468.58	382.02	86.57	5.413		
10,200.00	7,435.00	10,480.97	7,660.00	50.84	52.05	118.54	2,484.65	1,060.39	471.18	382.52	88.66	5.314		
10,300.00	7,435.00	10,580.90	7,660.00	52.20	53.37	118.33	2,584.58	1,060.27	474.44	383.13	91.31	5.196		
10,400.00	7,435.00	10,680.83	7,660.00	53.57	54.70	118.12	2,684.51	1,060.15	477.72	383.72	94.00	5.082		
10,500.00	7,435.00	10,780.76	7,660.00	54.95	56.05	117.91	2,784.44	1,060.03	481.00	384.29	96.71	4.974		
10,600.00	7,435.00	10,880.69	7,660.00	56.34	57.41	117.70	2,884.37	1,059.91	484.28	384.84	99.44	4.870		
10,700.00	7,435.00	10,980.62	7,660.00	57.75	58.78	117.50	2,984.30	1,059.79	487.57	385.38	102.19	4.771		
10,800.00	7,435.00	11,080.55	7,660.00	59.17	60.16	117.30	3,084.23	1,059.67	490.87	385.90	104.97	4.676		
10,900.00	7,435.00	11,180.48	7,660.00	60.60	61.55	117.10	3,184.16	1,059.55	494.18	386.41	107.76	4.586		
11,000.00	7,435.00	11,280.42	7,660.00	62.04	62.95	116.91	3,284.10	1,059.43	497.48	386.91	110.58	4.499		
11,100.00	7,435.00	11,380.35	7,660.00	63.48	64.36	116.71	3,384.03	1,059.31	500.80	387.39	113.41	4.416		
11,200.00	7,435.00	11,480.28	7,660.00	64.94	65.78	116.52	3,483.96	1,059.18	504.12	387.86	116.26	4.336		
11,300.00	7,435.00	11,580.21	7,660.00	66.40	67.20	116.34	3,583.89	1,059.06	507.45	388.33	119.12	4.260		
11,400.00	7,435.00	11,680.14	7,660.00	67.87	68.63	116.15	3,683.82	1,058.94	510.78	388.78	122.00	4.187		
11,500.00	7,435.00	11,780.07	7,660.00	69.34	70.07	115.97	3,783.75	1,058.82	514.12	389.23	124.89	4.117		
11,600.00	7,435.00	11,880.00	7,660.00	70.83	71.51	115.79	3,883.68	1,058.70	517.46	389.67	127.79	4.049		
11,700.00	7,435.00	11,979.93	7,660.00	72.31	72.96	115.61	3,983.61	1,058.58	520.81	390.10	130.71	3.985		
11,800.00	7,435.00	12,079.86	7,660.00	73.81	74.41	115.44	4,083.54	1,058.46	524.16	390.52	133.64	3.922		
11,900.00	7,435.00	12,179.79	7,660.00	75.31	75.87	115.26	4,183.47	1,058.34	527.51	390.94	136.57	3.862		
11,978.18	7,435.00	12,253.72	7,660.00	76.25	76.96	115.14	4,257.40	1,058.25	530.16	391.50	138.66	3.823 SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4T-32H-O268 - 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	90.10	-0.05	30.22	30.22					
100.00	100.00	100.00	100.00	0.14	0.14	90.10	-0.05	30.22	30.22	29.94	0.28	109.473		
200.00	200.00	200.00	200.00	0.50	0.50	90.10	-0.05	30.22	30.22	29.22	0.99	30.431		
300.00	300.00	300.00	300.00	0.85	0.85	90.10	-0.05	30.22	30.22	28.51	1.71	17.672		
400.00	400.00	400.00	400.00	1.21	1.21	90.10	-0.05	30.22	30.22	27.79	2.43	12.451		
500.00	500.00	500.00	500.00	1.57	1.57	90.10	-0.05	30.22	30.22	27.07	3.14	9.612 CC, ES		
600.00	600.00	599.04	599.02	1.93	1.92	91.56	-0.86	31.72	31.75	27.89	3.86	8.231		
700.00	700.00	697.84	697.69	2.29	2.25	95.18	-3.29	36.23	36.45	31.87	4.58	7.960		
800.00	800.00	796.18	795.65	2.65	2.60	99.48	-7.30	43.69	44.51	39.19	5.31	8.377		
900.00	899.98	894.02	892.78	2.99	2.96	-34.90	-12.87	54.04	54.59	48.56	6.03	9.054		
1,000.00	999.84	991.49	989.08	3.33	3.33	-33.73	-19.98	67.25	65.16	58.43	6.73	9.681		
1,100.00	1,099.45	1,089.64	1,085.54	3.67	3.73	-33.73	-28.55	83.19	75.82	68.40	7.42	10.218		
1,163.41	1,162.43	1,152.79	1,147.55	3.89	3.99	-34.37	-34.23	93.74	81.42	73.57	7.86	10.365		
1,200.00	1,198.73	1,189.26	1,183.35	4.02	4.15	-34.89	-37.51	99.84	84.33	76.22	8.11	10.398		
1,300.00	1,297.93	1,288.92	1,281.20	4.39	4.57	-36.15	-46.47	116.49	92.31	83.49	8.82	10.466		
1,400.00	1,397.13	1,388.58	1,379.05	4.76	5.01	-37.21	-55.44	133.15	100.33	90.79	9.54	10.513		
1,500.00	1,496.32	1,488.24	1,476.91	5.13	5.44	-38.11	-64.40	149.81	108.37	98.10	10.28	10.547		
1,600.00	1,595.52	1,587.90	1,574.76	5.51	5.89	-38.89	-73.36	166.46	116.44	105.43	11.02	10.569		
1,700.00	1,694.71	1,687.57	1,672.61	5.90	6.33	-39.56	-82.32	183.12	124.53	112.76	11.77	10.584		
1,800.00	1,793.91	1,787.23	1,770.46	6.29	6.78	-40.15	-91.28	199.77	132.63	120.11	12.52	10.594		
1,900.00	1,893.11	1,886.89	1,868.31	6.68	7.23	-40.68	-100.24	216.43	140.75	127.47	13.28	10.599		
2,000.00	1,992.30	1,986.55	1,966.16	7.07	7.68	-41.15	-109.21	233.08	148.87	134.83	14.04	10.601		
2,100.00	2,091.50	2,086.22	2,064.01	7.46	8.13	-41.56	-118.17	249.74	157.01	142.20	14.81	10.601		
2,200.00	2,190.70	2,185.88	2,161.86	7.86	8.59	-41.94	-127.13	266.40	165.15	149.57	15.58	10.600		
2,300.00	2,289.89	2,285.54	2,259.72	8.25	9.04	-42.28	-136.09	283.05	173.30	156.94	16.35	10.597		
2,400.00	2,389.09	2,385.20	2,357.57	8.65	9.50	-42.60	-145.05	299.71	181.45	164.32	17.13	10.593		
2,500.00	2,488.29	2,484.87	2,455.42	9.05	9.95	-42.88	-154.02	316.36	189.61	171.70	17.91	10.589		
2,600.00	2,587.48	2,584.53	2,553.27	9.45	10.41	-43.14	-162.98	333.02	197.77	179.09	18.68	10.584		
2,700.00	2,686.68	2,684.19	2,651.12	9.85	10.87	-43.38	-171.94	349.67	205.94	186.47	19.47	10.579		
2,800.00	2,785.88	2,783.85	2,748.97	10.25	11.33	-43.60	-180.90	366.33	214.11	193.86	20.25	10.574		
2,900.00	2,885.07	2,883.52	2,846.82	10.65	11.78	-43.81	-189.86	382.99	222.28	201.25	21.03	10.569		
3,000.00	2,984.27	2,983.18	2,944.67	11.05	12.24	-44.00	-198.82	399.64	230.45	208.64	21.82	10.564		
3,100.00	3,083.47	3,082.84	3,042.53	11.45	12.70	-44.18	-207.79	416.30	238.63	216.03	22.60	10.558		
3,200.00	3,182.66	3,182.50	3,140.38	11.85	13.16	-44.35	-216.75	432.95	246.81	223.42	23.39	10.553		
3,300.00	3,281.86	3,282.17	3,238.23	12.25	13.62	-44.50	-225.71	449.61	254.99	230.82	24.18	10.548		
3,400.00	3,381.05	3,381.83	3,336.08	12.66	14.08	-44.65	-234.67	466.26	263.18	238.21	24.96	10.542		
3,500.00	3,480.25	3,481.49	3,433.93	13.06	14.54	-44.78	-243.63	482.92	271.36	245.61	25.75	10.537		
3,600.00	3,579.45	3,581.15	3,531.78	13.46	15.00	-44.91	-252.60	499.58	279.55	253.01	26.54	10.532		
3,700.00	3,678.64	3,680.82	3,629.63	13.87	15.47	-45.03	-261.56	516.23	287.74	260.40	27.33	10.527		
3,800.00	3,777.84	3,780.48	3,727.48	14.27	15.93	-45.15	-270.52	532.89	295.93	267.80	28.12	10.523		
3,900.00	3,877.04	3,880.14	3,825.34	14.67	16.39	-45.26	-279.48	549.54	304.12	275.20	28.91	10.518		
4,000.00	3,976.23	3,979.80	3,923.19	15.08	16.85	-45.36	-288.44	566.20	312.31	282.60	29.71	10.513		
4,100.00	4,075.43	4,079.47	4,021.04	15.48	17.31	-45.46	-297.41	582.85	320.50	290.00	30.50	10.509		
4,200.00	4,174.63	4,179.13	4,118.89	15.89	17.77	-45.55	-306.37	599.51	328.69	297.40	31.29	10.505		
4,300.00	4,273.82	4,278.79	4,216.74	16.29	18.23	-45.64	-315.33	616.17	336.89	304.80	32.08	10.501		
4,400.00	4,373.02	4,378.45	4,314.59	16.70	18.70	-45.72	-324.29	632.82	345.08	312.21	32.88	10.497		
4,500.00	4,472.22	4,478.11	4,412.44	17.10	19.16	-45.81	-333.25	649.48	353.28	319.61	33.67	10.493		
4,600.00	4,571.41	4,577.78	4,510.30	17.51	19.62	-45.88	-342.21	666.13	361.47	327.01	34.46	10.489		
4,700.00	4,670.61	4,677.44	4,608.15	17.91	20.08	-45.96	-351.18	682.79	369.67	334.41	35.26	10.485		
4,800.00	4,769.81	4,777.10	4,706.00	18.32	20.54	-46.03	-360.14	699.44	377.87	341.82	36.05	10.482		
4,900.00	4,869.00	4,876.76	4,803.85	18.72	21.01	-46.09	-369.10	716.10	386.07	349.22	36.85	10.478		
5,000.00	4,968.20	4,976.43	4,901.70	19.13	21.47	-46.16	-378.06	732.76	394.26	356.62	37.64	10.475		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4T-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.00	5,067.40	5,076.09	4,999.55	19.53	21.93	-46.22	-387.02	749.41	402.46	364.03	38.43	10.471	
5,200.00	5,166.59	5,175.75	5,097.40	19.94	22.39	-46.28	-395.99	766.07	410.66	371.43	39.23	10.468	
5,300.00	5,265.79	5,275.41	5,195.25	20.34	22.86	-46.33	-404.95	782.72	418.86	378.84	40.02	10.465	
5,400.00	5,364.98	5,375.08	5,293.11	20.75	23.32	-46.39	-413.91	799.38	427.06	386.24	40.82	10.462	
5,500.00	5,464.18	5,474.74	5,390.96	21.15	23.78	-46.44	-422.87	816.03	435.26	393.65	41.62	10.459	
5,600.00	5,563.38	5,574.40	5,488.81	21.56	24.24	-46.49	-431.83	832.69	443.46	401.05	42.41	10.456	
5,700.00	5,662.57	5,674.06	5,586.66	21.97	24.71	-46.54	-440.80	849.35	451.66	408.46	43.21	10.453	
5,800.00	5,761.77	5,773.73	5,684.51	22.37	25.17	-46.59	-449.76	866.00	459.86	415.86	44.00	10.451	
5,900.00	5,860.97	5,873.39	5,782.36	22.78	25.63	-46.63	-458.72	882.66	468.07	423.27	44.80	10.448	
6,000.00	5,960.16	5,973.05	5,880.21	23.18	26.09	-46.68	-467.68	899.31	476.27	430.67	45.60	10.445	
6,100.00	6,059.36	6,072.71	5,978.06	23.59	26.56	-46.72	-476.64	915.97	484.47	438.08	46.39	10.443	
6,200.00	6,158.56	6,172.38	6,075.92	24.00	27.02	-46.76	-485.60	932.62	492.67	445.48	47.19	10.440	
6,300.00	6,257.75	6,272.04	6,173.77	24.40	27.48	-46.80	-494.57	949.28	500.88	452.89	47.99	10.438	
6,400.00	6,356.95	6,371.70	6,271.62	24.81	27.95	-46.84	-503.53	965.94	509.08	460.30	48.78	10.436	
6,500.00	6,456.15	6,471.36	6,369.47	25.21	28.41	-46.88	-512.49	982.59	517.28	467.70	49.58	10.434	
6,600.00	6,555.34	6,571.03	6,467.32	25.62	28.87	-46.91	-521.45	999.25	525.49	475.11	50.38	10.431	
6,702.76	6,657.28	6,673.44	6,567.87	26.04	29.35	-46.95	-530.66	1,016.36	533.92	482.72	51.19	10.429	
6,750.00	6,704.24	6,720.49	6,614.07	26.22	29.57	-17.10	-534.89	1,024.23	537.74	486.20	51.55	10.432	
6,800.00	6,754.03	6,770.09	6,662.77	26.40	29.80	25.28	-539.35	1,032.52	541.71	489.85	51.86	10.446	
6,850.00	6,803.66	6,820.03	6,711.91	26.56	30.02	50.89	-542.28	1,040.88	545.63	493.50	52.13	10.466	
6,900.00	6,852.89	6,870.49	6,761.63	26.70	30.23	63.24	-541.71	1,049.34	549.48	497.10	52.38	10.489	
6,950.00	6,901.49	6,921.45	6,811.70	26.83	30.41	70.03	-537.54	1,057.85	553.24	500.62	52.62	10.514	
7,000.00	6,949.20	6,972.94	6,861.85	26.95	30.58	74.30	-529.66	1,066.37	556.90	504.06	52.84	10.539	
7,050.00	6,995.81	7,024.95	6,911.81	27.05	30.73	77.26	-518.01	1,074.86	560.42	507.37	53.05	10.564	
7,100.00	7,041.08	7,077.50	6,961.31	27.15	30.87	79.45	-502.55	1,083.26	563.78	510.53	53.25	10.587	
7,150.00	7,084.79	7,130.58	7,010.04	27.23	30.99	81.17	-483.23	1,091.53	566.97	513.53	53.44	10.609	
7,200.00	7,126.74	7,184.20	7,057.70	27.31	31.09	82.56	-460.05	1,099.61	569.95	516.32	53.63	10.627	
7,250.00	7,166.71	7,238.33	7,103.95	27.37	31.18	83.72	-433.05	1,107.44	572.71	518.90	53.81	10.643	
7,300.00	7,204.52	7,292.98	7,148.46	27.42	31.25	84.71	-402.28	1,114.98	575.22	521.23	53.99	10.655	
7,350.00	7,239.97	7,348.12	7,190.89	27.47	31.31	85.57	-367.84	1,122.16	577.46	523.30	54.16	10.661	
7,400.00	7,272.89	7,403.72	7,230.92	27.51	31.35	86.32	-329.85	1,128.92	579.41	525.07	54.34	10.663	
7,450.00	7,303.14	7,459.76	7,268.19	27.54	31.38	86.97	-288.50	1,135.22	581.05	526.53	54.52	10.658	
7,500.00	7,330.54	7,516.21	7,302.40	27.57	31.39	87.55	-244.00	1,140.99	582.36	527.65	54.71	10.645	
7,550.00	7,354.98	7,573.01	7,333.23	27.60	31.39	88.06	-196.59	1,146.18	583.32	528.41	54.91	10.624	
7,600.00	7,376.34	7,630.13	7,360.40	27.63	31.38	88.51	-146.57	1,150.74	583.93	528.81	55.13	10.593	
7,650.00	7,394.51	7,687.51	7,383.66	27.66	31.36	88.89	-94.27	1,154.64	584.17	528.81	55.36	10.551	
7,700.00	7,409.39	7,745.11	7,402.78	27.71	31.33	89.23	-40.06	1,157.83	584.04	528.41	55.63	10.499	
7,750.00	7,420.93	7,802.85	7,417.57	27.77	31.29	89.50	15.69	1,160.28	583.53	527.61	55.92	10.435	
7,800.00	7,429.06	7,860.69	7,427.90	27.86	31.24	89.72	72.56	1,161.97	582.63	526.39	56.24	10.359	
7,850.00	7,433.75	7,918.56	7,433.68	27.97	31.19	89.89	130.11	1,162.89	581.36	524.76	56.60	10.272	
7,892.48	7,435.00	7,966.97	7,435.00	28.09	31.15	90.00	178.50	1,163.06	579.99	523.07	56.92	10.190	
7,900.00	7,435.00	7,974.49	7,435.00	28.12	31.15	90.00	186.02	1,163.05	579.73	522.76	56.97	10.176	
8,000.00	7,435.00	8,074.43	7,435.00	28.50	31.08	90.00	285.96	1,162.94	576.31	518.54	57.77	9.976	
8,100.00	7,435.00	8,174.37	7,435.00	28.99	31.07	90.00	385.90	1,162.82	572.89	514.17	58.72	9.757	
8,200.00	7,435.00	8,274.31	7,435.00	29.57	31.15	90.00	485.84	1,162.71	569.46	509.65	59.82	9.520	
8,300.00	7,435.00	8,374.25	7,435.00	30.22	31.50	90.00	585.78	1,162.59	566.04	504.98	61.06	9.271	
8,400.00	7,435.00	8,474.19	7,435.00	30.94	32.10	90.00	685.72	1,162.48	562.62	500.19	62.43	9.011	
8,500.00	7,435.00	8,574.14	7,435.00	31.72	32.84	90.00	785.66	1,162.36	559.20	495.26	63.94	8.746	
8,600.00	7,435.00	8,674.08	7,435.00	32.56	33.65	90.00	885.61	1,162.25	555.78	490.22	65.56	8.478	
8,700.00	7,435.00	8,774.02	7,435.00	33.44	34.52	90.00	985.55	1,162.14	552.35	485.07	67.28	8.209	
8,800.00	7,435.00	8,873.96	7,435.00	34.38	35.45	90.00	1,085.49	1,162.02	548.93	479.82	69.11	7.942	
8,900.00	7,435.00	8,973.90	7,435.00	35.36	36.42	90.00	1,185.43	1,161.91	545.51	474.47	71.03	7.679	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4T-32H-O268 - 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		
9,000.00	7,435.00	9,073.84	7,435.00	36.38	37.43	90.00	1,285.37	1,161.79	542.09	469.04	73.04	7.422		
9,100.00	7,435.00	9,173.78	7,435.00	37.43	38.47	90.00	1,385.31	1,161.68	538.66	463.54	75.13	7.170		
9,200.00	7,435.00	9,273.73	7,435.00	38.52	39.56	90.00	1,485.25	1,161.57	535.24	457.96	77.29	6.926		
9,300.00	7,435.00	9,373.67	7,435.00	39.64	40.67	90.00	1,585.20	1,161.45	531.82	452.31	79.51	6.689		
9,400.00	7,435.00	9,473.61	7,435.00	40.79	41.82	90.00	1,685.14	1,161.34	528.40	446.60	81.79	6.460		
9,500.00	7,435.00	9,573.55	7,435.00	41.97	42.99	90.00	1,785.08	1,161.22	524.98	440.84	84.14	6.240		
9,600.00	7,435.00	9,673.49	7,435.00	43.17	44.18	90.00	1,885.02	1,161.11	521.55	435.03	86.53	6.028		
9,700.00	7,435.00	9,773.43	7,435.00	44.39	45.40	90.00	1,984.96	1,160.99	518.13	429.16	88.97	5.824		
9,800.00	7,435.00	9,873.37	7,435.00	45.64	46.64	90.00	2,084.90	1,160.88	514.71	423.26	91.45	5.628		
9,900.00	7,435.00	9,973.32	7,435.00	46.90	47.90	90.00	2,184.84	1,160.77	511.29	417.31	93.97	5.441		
9,915.75	7,435.00	9,989.06	7,435.00	47.10	48.10	90.00	2,200.58	1,160.75	510.75	416.37	94.37	5.412		
10,000.00	7,435.00	10,073.29	7,435.00	48.18	49.18	90.00	2,284.82	1,160.65	509.10	412.56	96.54	5.273		
10,013.81	7,435.00	10,087.10	7,435.00	48.37	49.36	90.00	2,298.62	1,160.64	509.07	412.17	96.90	5.253		
10,100.00	7,435.00	10,173.27	7,435.00	49.50	50.48	90.00	2,384.80	1,160.54	510.37	411.20	99.16	5.147		
10,120.42	7,435.00	10,193.68	7,435.00	49.77	50.75	90.00	2,405.21	1,160.51	511.05	411.35	99.70	5.126		
10,200.00	7,435.00	10,273.21	7,435.00	50.84	51.79	90.00	2,484.74	1,160.42	514.01	412.18	101.83	5.048		
10,300.00	7,435.00	10,373.14	7,435.00	52.20	53.12	90.00	2,584.67	1,160.31	517.73	413.21	104.53	4.953		
10,400.00	7,435.00	10,473.07	7,435.00	53.57	54.46	90.00	2,684.60	1,160.19	521.46	414.20	107.25	4.862		
10,500.00	7,435.00	10,573.00	7,435.00	54.95	55.81	90.00	2,784.53	1,160.08	525.18	415.17	110.00	4.774		
10,600.00	7,435.00	10,672.93	7,435.00	56.34	57.17	90.00	2,884.46	1,159.97	528.90	416.12	112.78	4.690		
10,700.00	7,435.00	10,772.86	7,435.00	57.75	58.55	90.00	2,984.39	1,159.85	532.62	417.04	115.58	4.608		
10,800.00	7,435.00	10,872.79	7,435.00	59.17	59.93	90.00	3,084.32	1,159.74	536.34	417.94	118.40	4.530		
10,900.00	7,435.00	10,972.72	7,435.00	60.60	61.33	90.00	3,184.25	1,159.62	540.06	418.82	121.23	4.455		
11,000.00	7,435.00	11,072.65	7,435.00	62.04	62.73	90.00	3,284.18	1,159.51	543.78	419.69	124.09	4.382		
11,100.00	7,435.00	11,172.58	7,435.00	63.48	64.15	90.00	3,384.11	1,159.39	547.50	420.54	126.96	4.312		
11,200.00	7,435.00	11,272.52	7,435.00	64.94	65.57	90.00	3,484.04	1,159.28	551.22	421.37	129.85	4.245		
11,300.00	7,435.00	11,372.45	7,435.00	66.40	66.99	90.00	3,583.97	1,159.17	554.94	422.19	132.75	4.180		
11,400.00	7,435.00	11,472.38	7,435.00	67.87	68.43	90.00	3,683.90	1,159.05	558.66	422.99	135.67	4.118		
11,500.00	7,435.00	11,572.31	7,435.00	69.34	69.87	90.00	3,783.83	1,158.94	562.38	423.78	138.60	4.058		
11,600.00	7,435.00	11,672.24	7,435.00	70.83	71.31	90.00	3,883.77	1,158.82	566.10	424.56	141.54	4.000		
11,700.00	7,435.00	11,772.17	7,435.00	72.31	72.77	90.00	3,983.70	1,158.71	569.82	425.33	144.49	3.944		
11,800.00	7,435.00	11,872.10	7,435.00	73.81	74.22	90.00	4,083.63	1,158.59	573.54	426.09	147.46	3.890		
11,900.00	7,435.00	11,972.03	7,435.00	75.31	75.69	90.00	4,183.56	1,158.48	577.26	426.83	150.43	3.837		
11,978.18	7,435.00	12,044.78	7,435.00	76.25	76.76	90.00	4,256.31	1,158.40	580.20	427.66	152.54	3.804 SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4U-32H-O268 - 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	90.45	-0.31	40.01	40.01				
100.00	100.00	100.00	100.00	0.14	0.14	90.45	-0.31	40.01	40.01	39.73	0.28	144.954	
200.00	200.00	200.00	200.00	0.50	0.50	90.45	-0.31	40.01	40.01	39.02	0.99	40.294	
300.00	300.00	300.00	300.00	0.85	0.85	90.45	-0.31	40.01	40.01	38.30	1.71	23.399	
366.67	366.67	366.67	366.67	1.09	1.09	90.45	-0.31	40.01	40.01	37.82	2.19	18.288	
400.00	400.00	400.00	400.00	1.21	1.21	90.45	-0.31	40.01	40.01	37.58	2.43	16.487	CC, ES
500.00	500.00	499.06	499.04	1.57	1.55	92.26	-1.63	41.11	41.15	38.02	3.14	13.126	
600.00	600.00	597.89	597.73	1.93	1.89	97.12	-5.55	44.40	44.80	40.95	3.85	11.630	
700.00	700.00	696.12	695.61	2.29	2.24	103.20	-11.72	49.97	51.51	46.92	4.59	11.218	
800.00	800.00	793.69	792.58	2.65	2.60	107.10	-18.04	58.66	61.82	56.48	5.34	11.582	
900.00	899.98	890.80	888.76	2.99	2.97	-29.03	-24.13	70.57	73.92	67.86	6.06	12.207	
1,000.00	999.84	987.52	984.10	3.33	3.35	-30.02	-29.99	85.68	86.13	79.38	6.76	12.749	
1,100.00	1,099.45	1,083.73	1,078.40	3.67	3.76	-32.37	-35.60	103.89	98.59	91.14	7.46	13.223	
1,163.41	1,162.43	1,144.53	1,137.66	3.89	4.03	-34.34	-39.04	117.03	106.74	98.84	7.90	13.507	
1,200.00	1,198.73	1,180.61	1,172.75	4.02	4.19	-35.60	-41.05	125.20	111.55	103.39	8.15	13.680	
1,300.00	1,297.93	1,279.53	1,268.94	4.39	4.65	-38.54	-46.56	147.60	124.91	116.05	8.86	14.104	
1,400.00	1,397.13	1,378.45	1,365.14	4.76	5.12	-40.91	-52.08	170.00	138.54	128.96	9.58	14.468	
1,500.00	1,496.32	1,477.37	1,461.33	5.13	5.59	-42.86	-57.60	192.40	152.35	142.05	10.31	14.781	
1,600.00	1,595.52	1,576.29	1,557.52	5.51	6.08	-44.48	-63.11	214.79	166.31	155.26	11.05	15.049	
1,700.00	1,694.71	1,675.21	1,653.71	5.90	6.57	-45.85	-68.63	237.19	180.39	168.58	11.80	15.280	
1,800.00	1,793.91	1,774.13	1,749.91	6.29	7.06	-47.02	-74.14	259.59	194.54	181.98	12.57	15.481	
1,900.00	1,893.11	1,873.05	1,846.10	6.68	7.55	-48.03	-79.66	281.99	208.77	195.43	13.34	15.655	
2,000.00	1,992.30	1,971.97	1,942.29	7.07	8.05	-48.91	-85.18	304.39	223.05	208.94	14.11	15.808	
2,100.00	2,091.50	2,070.89	2,038.49	7.46	8.55	-49.69	-90.69	326.79	237.38	222.49	14.89	15.942	
2,200.00	2,190.70	2,169.81	2,134.68	7.86	9.05	-50.37	-96.21	349.19	251.75	236.07	15.67	16.062	
2,300.00	2,289.89	2,268.73	2,230.87	8.25	9.55	-50.99	-101.72	371.58	266.14	249.68	16.46	16.168	
2,400.00	2,389.09	2,367.65	2,327.06	8.65	10.05	-51.54	-107.24	393.98	280.57	263.32	17.25	16.263	
2,500.00	2,488.29	2,466.57	2,423.26	9.05	10.56	-52.03	-112.76	416.38	295.02	276.97	18.05	16.348	
2,600.00	2,587.48	2,565.49	2,519.45	9.45	11.06	-52.48	-118.27	438.78	309.48	290.64	18.84	16.425	
2,700.00	2,686.68	2,664.41	2,615.64	9.85	11.57	-52.89	-123.79	461.18	323.97	304.33	19.64	16.495	
2,800.00	2,785.88	2,763.33	2,711.84	10.25	12.07	-53.27	-129.30	483.58	338.46	318.02	20.44	16.559	
2,900.00	2,885.07	2,862.25	2,808.03	10.65	12.58	-53.61	-134.82	505.98	352.98	331.73	21.24	16.617	
3,000.00	2,984.27	2,961.17	2,904.22	11.05	13.09	-53.93	-140.34	528.37	367.50	345.45	22.05	16.670	
3,100.00	3,083.47	3,060.09	3,000.41	11.45	13.60	-54.22	-145.85	550.77	382.03	359.18	22.85	16.719	
3,200.00	3,182.66	3,159.01	3,096.61	11.85	14.11	-54.49	-151.37	573.17	396.58	372.92	23.66	16.764	
3,300.00	3,281.86	3,257.93	3,192.80	12.25	14.62	-54.75	-156.88	595.57	411.13	386.66	24.46	16.806	
3,400.00	3,381.05	3,356.85	3,288.99	12.66	15.12	-54.98	-162.40	617.97	425.68	400.41	25.27	16.845	
3,500.00	3,480.25	3,455.77	3,385.19	13.06	15.63	-55.20	-167.92	640.37	440.25	414.17	26.08	16.881	
3,600.00	3,579.45	3,554.69	3,481.38	13.46	16.14	-55.41	-173.43	662.77	454.82	427.93	26.89	16.914	
3,700.00	3,678.64	3,653.61	3,577.57	13.87	16.65	-55.60	-178.95	685.16	469.40	441.70	27.70	16.946	
3,800.00	3,777.84	3,752.53	3,673.76	14.27	17.17	-55.78	-184.46	707.56	483.98	455.46	28.51	16.975	
3,900.00	3,877.04	3,851.45	3,769.96	14.67	17.68	-55.95	-189.98	729.96	498.56	469.24	29.32	17.002	
4,000.00	3,976.23	3,950.37	3,866.15	15.08	18.19	-56.11	-195.50	752.36	513.15	483.02	30.14	17.028	
4,100.00	4,075.43	4,049.29	3,962.34	15.48	18.70	-56.26	-201.01	774.76	527.74	496.80	30.95	17.052	
4,200.00	4,174.63	4,148.21	4,058.54	15.89	19.21	-56.41	-206.53	797.16	542.34	510.58	31.76	17.075	
4,300.00	4,273.82	4,247.13	4,154.73	16.29	19.72	-56.54	-212.04	819.56	556.94	524.36	32.58	17.097	
4,400.00	4,373.02	4,346.05	4,250.92	16.70	20.23	-56.67	-217.56	841.95	571.54	538.15	33.39	17.117	
4,500.00	4,472.22	4,444.97	4,347.11	17.10	20.74	-56.79	-223.08	864.35	586.15	551.94	34.20	17.136	
4,600.00	4,571.41	4,543.89	4,443.31	17.51	21.25	-56.91	-228.59	886.75	600.75	565.73	35.02	17.155	
4,700.00	4,670.61	4,642.81	4,539.50	17.91	21.77	-57.02	-234.11	909.15	615.36	579.53	35.84	17.172	
4,800.00	4,769.81	4,741.73	4,635.69	18.32	22.28	-57.13	-239.62	931.55	629.98	593.33	36.65	17.189	
4,900.00	4,869.00	4,840.65	4,731.89	18.72	22.79	-57.23	-245.14	953.95	644.59	607.12	37.47	17.204	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4U-32H-O268 - 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	4,968.20	4,939.57	4,828.08	19.13	23.30	-57.33	-250.66	976.35	659.21	620.92	38.28	17.219	
5,100.00	5,067.40	5,038.49	4,924.27	19.53	23.81	-57.42	-256.17	998.74	673.82	634.72	39.10	17.233	
5,200.00	5,166.59	5,137.41	5,020.46	19.94	24.33	-57.51	-261.69	1,021.14	688.44	648.53	39.92	17.247	
5,300.00	5,265.79	5,236.33	5,116.66	20.34	24.84	-57.59	-267.20	1,043.54	703.07	662.33	40.73	17.260	
5,400.00	5,364.98	5,335.25	5,212.85	20.75	25.35	-57.67	-272.72	1,065.94	717.69	676.14	41.55	17.272	
5,500.00	5,464.18	5,434.17	5,309.04	21.15	25.86	-57.75	-278.24	1,088.34	732.31	689.94	42.37	17.284	
5,600.00	5,563.38	5,533.09	5,405.24	21.56	26.38	-57.83	-283.75	1,110.74	746.94	703.75	43.19	17.296	
5,700.00	5,662.57	5,632.01	5,501.43	21.97	26.89	-57.90	-289.27	1,133.13	761.56	717.56	44.00	17.307	
5,800.00	5,761.77	5,730.93	5,597.62	22.37	27.40	-57.97	-294.78	1,155.53	776.19	731.37	44.82	17.317	
5,900.00	5,860.97	5,829.85	5,693.81	22.78	27.91	-58.04	-300.30	1,177.93	790.82	745.18	45.64	17.327	
6,000.00	5,960.16	5,928.77	5,790.01	23.18	28.43	-58.10	-305.82	1,200.33	805.45	758.99	46.46	17.337	
6,100.00	6,059.36	6,027.69	5,886.20	23.59	28.94	-58.16	-311.33	1,222.73	820.08	772.80	47.28	17.346	
6,200.00	6,158.56	6,126.61	5,982.39	24.00	29.45	-58.22	-316.85	1,245.13	834.71	786.61	48.10	17.355	
6,300.00	6,257.75	6,225.53	6,078.59	24.40	29.97	-58.28	-322.36	1,267.53	849.34	800.43	48.91	17.364	
6,400.00	6,356.95	6,324.45	6,174.78	24.81	30.48	-58.34	-327.88	1,289.92	863.98	814.24	49.73	17.372	
6,500.00	6,456.15	6,423.37	6,270.97	25.21	30.99	-58.39	-333.40	1,312.32	878.61	828.06	50.55	17.380	
6,600.00	6,555.34	6,522.29	6,367.16	25.62	31.50	-58.44	-338.91	1,334.72	893.24	841.87	51.37	17.388	
6,702.76	6,657.28	6,623.95	6,466.01	26.04	32.03	-58.50	-344.58	1,357.74	908.28	856.07	52.21	17.395	
6,750.00	6,704.24	6,670.70	6,511.48	26.22	32.27	-28.94	-347.19	1,368.33	914.84	862.26	52.58	17.399	
6,800.00	6,754.03	6,720.11	6,559.53	26.40	32.53	13.05	-349.94	1,379.51	921.00	868.08	52.92	17.404	
6,850.00	6,803.66	6,769.19	6,607.25	26.56	32.78	38.32	-352.68	1,390.63	926.37	873.15	53.21	17.409	
6,900.00	6,852.89	6,817.71	6,654.43	26.70	33.04	50.58	-355.38	1,401.61	931.01	877.54	53.46	17.414	
6,950.00	6,901.49	6,865.42	6,700.84	26.83	33.28	57.51	-358.04	1,412.42	935.01	881.34	53.67	17.421	
7,000.00	6,949.20	6,912.11	6,746.23	26.95	33.53	62.11	-360.65	1,422.99	938.51	884.67	53.84	17.431	
7,050.00	6,995.81	6,957.53	6,790.40	27.05	33.76	65.57	-363.18	1,433.27	941.66	887.69	53.98	17.446	
7,100.00	7,041.08	6,998.34	6,830.14	27.15	33.97	68.25	-364.35	1,442.48	944.72	890.67	54.05	17.478	
7,150.00	7,084.79	7,040.04	6,870.76	27.23	34.17	70.49	-363.14	1,451.78	947.85	893.72	54.13	17.511	
7,200.00	7,126.74	7,082.84	6,912.34	27.31	34.36	72.46	-359.38	1,461.19	951.06	896.84	54.21	17.543	
7,250.00	7,166.71	7,126.86	6,954.82	27.37	34.55	74.25	-352.87	1,470.70	954.35	900.03	54.32	17.570	
7,300.00	7,204.52	7,172.26	6,998.17	27.42	34.72	75.91	-343.37	1,480.27	957.73	903.29	54.44	17.593	
7,350.00	7,239.97	7,219.20	7,042.30	27.47	34.89	77.49	-330.61	1,489.87	961.21	906.62	54.58	17.610	
7,400.00	7,272.89	7,267.87	7,087.11	27.51	35.05	79.02	-314.30	1,499.48	964.77	910.01	54.75	17.620	
7,450.00	7,303.14	7,318.46	7,132.48	27.54	35.19	80.52	-294.08	1,509.05	968.39	913.45	54.94	17.626	
7,500.00	7,330.54	7,371.21	7,178.21	27.57	35.33	82.00	-269.58	1,518.52	972.05	916.91	55.14	17.627	
7,550.00	7,354.98	7,426.38	7,224.06	27.60	35.46	83.47	-240.35	1,527.80	975.71	920.36	55.35	17.627	
7,600.00	7,376.34	7,484.23	7,269.66	27.63	35.57	84.95	-205.94	1,536.80	979.33	923.77	55.56	17.627	
7,650.00	7,394.51	7,545.06	7,314.57	27.66	35.67	86.42	-165.84	1,545.40	982.83	927.07	55.75	17.629	
7,700.00	7,409.39	7,609.17	7,358.16	27.71	35.76	87.91	-119.55	1,553.42	986.13	930.21	55.92	17.634	
7,750.00	7,420.93	7,676.85	7,399.65	27.77	35.83	89.39	-66.60	1,560.66	989.14	933.07	56.07	17.642	
7,800.00	7,429.06	7,748.37	7,438.02	27.86	35.88	90.87	-6.61	1,566.88	991.74	935.55	56.19	17.650	
7,850.00	7,433.75	7,823.93	7,472.06	27.97	35.92	92.33	60.64	1,571.78	993.79	937.49	56.30	17.653	
7,892.48	7,435.00	7,891.37	7,496.48	28.09	35.94	93.54	123.41	1,574.67	994.99	938.60	56.39	17.645	
7,900.00	7,435.00	7,903.65	7,500.30	28.12	35.94	93.76	135.07	1,575.04	995.14	938.73	56.41	17.642	
8,000.00	7,435.00	8,076.76	7,533.04	28.50	35.94	95.67	304.62	1,575.18	993.59	936.64	56.95	17.447	
8,100.00	7,435.00	8,200.33	7,535.00	28.99	35.94	95.84	428.05	1,570.24	986.32	928.49	57.83	17.054	
8,200.00	7,435.00	8,300.04	7,535.00	29.57	35.97	95.88	527.66	1,565.89	978.70	919.88	58.82	16.640	
8,300.00	7,435.00	8,399.74	7,535.00	30.22	36.05	95.93	627.27	1,561.54	971.07	911.13	59.95	16.199	
8,400.00	7,435.00	8,499.45	7,535.00	30.94	36.17	95.98	726.88	1,557.19	963.45	902.23	61.22	15.737	
8,500.00	7,435.00	8,599.16	7,535.00	31.72	36.36	96.02	826.49	1,552.84	955.83	893.20	62.63	15.262	
8,600.00	7,435.00	8,698.86	7,535.00	32.56	36.65	96.07	926.10	1,548.49	948.20	884.04	64.16	14.779	
8,700.00	7,435.00	8,798.57	7,535.00	33.44	37.05	96.12	1,025.71	1,544.15	940.58	874.78	65.81	14.293	
8,800.00	7,435.00	8,898.27	7,535.00	34.38	37.57	96.17	1,125.32	1,539.80	932.96	865.40	67.56	13.809	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4U-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,900.00	7,435.00	8,997.98	7,535.00	35.36	38.21	96.22	1,224.93	1,535.45	925.34	855.93	69.42	13.331	
9,000.00	7,435.00	9,097.68	7,535.00	36.38	38.97	96.27	1,324.55	1,531.10	917.72	846.36	71.36	12.861	
9,100.00	7,435.00	9,197.39	7,535.00	37.43	39.82	96.33	1,424.16	1,526.75	910.10	836.72	73.39	12.401	
9,200.00	7,435.00	9,297.10	7,535.00	38.52	40.75	96.38	1,523.77	1,522.40	902.49	827.00	75.49	11.955	
9,300.00	7,435.00	9,396.80	7,535.00	39.64	41.75	96.43	1,623.38	1,518.05	894.87	817.20	77.67	11.522	
9,400.00	7,435.00	9,496.51	7,535.00	40.79	42.79	96.49	1,722.99	1,513.70	887.25	807.35	79.91	11.104	
9,500.00	7,435.00	9,596.21	7,535.00	41.97	43.89	96.55	1,822.60	1,509.35	879.64	797.43	82.21	10.700	
9,600.00	7,435.00	9,695.92	7,535.00	43.17	45.02	96.60	1,922.21	1,505.00	872.02	787.47	84.56	10.313	
9,700.00	7,435.00	9,795.63	7,535.00	44.39	46.19	96.66	2,021.82	1,500.65	864.41	777.45	86.96	9.940	
9,800.00	7,435.00	9,895.33	7,535.00	45.64	47.39	96.72	2,121.43	1,496.30	856.80	767.39	89.41	9.583	
9,900.00	7,435.00	9,995.04	7,535.00	46.90	48.61	96.78	2,221.04	1,491.95	849.19	757.28	91.90	9.240	
9,915.75	7,435.00	10,010.74	7,535.00	47.10	48.81	96.79	2,236.73	1,491.27	847.99	755.69	92.30	9.187	
10,000.00	7,435.00	10,094.83	7,535.00	48.18	49.86	96.82	2,320.74	1,487.60	842.80	748.36	94.44	8.924	
10,100.00	7,435.00	10,194.78	7,535.00	49.50	51.14	96.84	2,420.59	1,483.24	839.84	742.78	97.05	8.653	
10,120.42	7,435.00	10,215.19	7,535.00	49.77	51.40	96.84	2,440.99	1,482.35	839.66	742.06	97.60	8.603	
10,200.00	7,435.00	10,294.77	7,535.00	50.84	52.43	96.84	2,520.50	1,478.88	839.24	739.52	99.72	8.416	
10,300.00	7,435.00	10,394.77	7,535.00	52.20	53.75	96.85	2,620.40	1,474.52	838.72	736.30	102.42	8.189	
10,400.00	7,435.00	10,494.77	7,535.00	53.57	55.08	96.85	2,720.30	1,470.16	838.19	733.04	105.15	7.971	
10,500.00	7,435.00	10,594.77	7,535.00	54.95	56.43	96.86	2,820.21	1,465.79	837.67	729.76	107.91	7.763	
10,600.00	7,435.00	10,694.77	7,535.00	56.34	57.79	96.86	2,920.11	1,461.43	837.15	726.46	110.69	7.563	
10,700.00	7,435.00	10,794.77	7,535.00	57.75	59.17	96.86	3,020.01	1,457.07	836.62	723.13	113.49	7.371	
10,800.00	7,435.00	10,894.77	7,535.00	59.17	60.56	96.87	3,119.92	1,452.71	836.10	719.78	116.32	7.188	
10,900.00	7,435.00	10,994.76	7,535.00	60.60	61.96	96.87	3,219.82	1,448.35	835.58	716.41	119.17	7.012	
11,000.00	7,435.00	11,094.76	7,535.00	62.04	63.37	96.88	3,319.72	1,443.98	835.05	713.01	122.04	6.843	
11,100.00	7,435.00	11,194.76	7,535.00	63.48	64.80	96.88	3,419.63	1,439.62	834.53	709.61	124.92	6.680	
11,200.00	7,435.00	11,294.76	7,535.00	64.94	66.23	96.89	3,519.53	1,435.26	834.00	706.18	127.82	6.525	
11,300.00	7,435.00	11,394.76	7,535.00	66.40	67.67	96.89	3,619.43	1,430.90	833.48	702.74	130.74	6.375	
11,400.00	7,435.00	11,494.76	7,535.00	67.87	69.12	96.90	3,719.34	1,426.54	832.96	699.29	133.67	6.232	
11,500.00	7,435.00	11,594.76	7,535.00	69.34	70.57	96.90	3,819.24	1,422.17	832.43	695.82	136.61	6.094	
11,600.00	7,435.00	11,694.75	7,535.00	70.83	72.04	96.90	3,919.14	1,417.81	831.91	692.34	139.56	5.961	
11,700.00	7,435.00	11,794.75	7,535.00	72.31	73.51	96.91	4,019.05	1,413.45	831.38	688.85	142.53	5.833	
11,800.00	7,435.00	11,894.75	7,535.00	73.81	74.98	96.91	4,118.95	1,409.09	830.86	685.35	145.51	5.710	
11,900.00	7,435.00	11,994.75	7,535.00	75.31	76.47	96.92	4,218.85	1,404.72	830.34	681.84	148.50	5.592	
11,940.03	7,435.00	12,030.43	7,535.00	75.79	77.00	96.92	4,254.50	1,403.17	830.14	680.54	149.59	5.549	
11,978.18	7,435.00	12,030.43	7,535.00	76.25	77.00	96.92	4,254.50	1,403.17	831.01	680.35	150.66	5.516 SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4V-32H-O268 - 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	90.38	-0.33	50.08	50.08				
100.00	100.00	100.00	100.00	0.14	0.14	90.38	-0.33	50.08	50.08	49.81	0.28	181.444	
200.00	200.00	200.00	200.00	0.50	0.50	90.38	-0.33	50.08	50.08	49.09	0.99	50.438	
300.00	300.00	300.00	300.00	0.85	0.85	90.38	-0.33	50.08	50.08	48.37	1.71	29.290 CC, ES	
400.00	400.00	398.35	398.33	1.21	1.20	91.03	-0.93	51.66	51.70	49.26	2.44	21.222	
500.00	500.00	496.47	496.31	1.57	1.54	92.76	-2.72	56.38	56.56	53.38	3.18	17.773	
600.00	600.00	594.12	593.61	1.93	1.89	95.05	-5.67	64.19	64.76	60.82	3.94	16.438	
700.00	700.00	691.10	689.89	2.29	2.26	97.42	-9.77	75.01	76.32	71.62	4.70	16.251	
800.00	800.00	787.19	784.84	2.65	2.64	99.58	-14.97	88.73	91.25	85.80	5.45	16.755	
900.00	899.98	882.46	878.46	2.99	3.03	-36.32	-21.23	105.26	108.14	101.97	6.17	17.528	
1,000.00	999.84	977.13	970.85	3.33	3.46	-35.85	-28.55	124.57	125.51	118.64	6.87	18.279	
1,100.00	1,099.45	1,073.97	1,064.74	3.67	3.92	-36.09	-36.93	146.70	142.71	135.17	7.55	18.914	
1,163.41	1,162.43	1,136.62	1,125.45	3.89	4.23	-36.61	-42.41	161.16	152.35	144.37	7.98	19.101	
1,200.00	1,198.73	1,172.81	1,160.53	4.02	4.41	-37.03	-45.58	169.52	157.60	149.37	8.23	19.150	
1,300.00	1,297.93	1,271.73	1,256.39	4.39	4.90	-38.04	-54.23	192.36	171.99	163.05	8.94	19.239	
1,400.00	1,397.13	1,370.65	1,352.24	4.76	5.41	-38.90	-62.88	215.19	186.42	176.75	9.66	19.291	
1,500.00	1,496.32	1,469.57	1,448.10	5.13	5.92	-39.63	-71.53	238.03	200.88	190.48	10.40	19.317	
1,600.00	1,595.52	1,568.48	1,543.95	5.51	6.43	-40.26	-80.18	260.86	215.38	204.23	11.14	19.326	
1,700.00	1,694.71	1,667.40	1,639.81	5.90	6.94	-40.82	-88.83	283.70	229.89	218.00	11.90	19.322	
1,800.00	1,793.91	1,766.32	1,735.67	6.29	7.46	-41.31	-97.48	306.54	244.43	231.77	12.66	19.310	
1,900.00	1,893.11	1,865.24	1,831.52	6.68	7.98	-41.74	-106.13	329.37	258.98	245.55	13.42	19.292	
2,000.00	1,992.30	1,964.16	1,927.38	7.07	8.50	-42.13	-114.78	352.21	273.54	259.35	14.19	19.271	
2,100.00	2,091.50	2,063.07	2,023.24	7.46	9.03	-42.48	-123.43	375.04	288.12	273.15	14.97	19.247	
2,200.00	2,190.70	2,161.99	2,119.09	7.86	9.55	-42.79	-132.08	397.88	302.70	286.95	15.75	19.222	
2,300.00	2,289.89	2,260.91	2,214.95	8.25	10.08	-43.08	-140.73	420.71	317.29	300.76	16.53	19.197	
2,400.00	2,389.09	2,359.83	2,310.80	8.65	10.60	-43.34	-149.38	443.55	331.89	314.58	17.31	19.171	
2,500.00	2,488.29	2,458.75	2,406.66	9.05	11.13	-43.58	-158.03	466.39	346.50	328.40	18.10	19.145	
2,600.00	2,587.48	2,557.66	2,502.52	9.45	11.66	-43.80	-166.68	489.22	361.11	342.22	18.89	19.120	
2,700.00	2,686.68	2,656.58	2,598.37	9.85	12.19	-44.00	-175.33	512.06	375.72	356.05	19.68	19.095	
2,800.00	2,785.88	2,755.50	2,694.23	10.25	12.71	-44.19	-183.99	534.89	390.34	369.87	20.47	19.070	
2,900.00	2,885.07	2,854.42	2,790.09	10.65	13.24	-44.36	-192.64	557.73	404.97	383.70	21.26	19.047	
3,000.00	2,984.27	2,953.33	2,885.94	11.05	13.77	-44.52	-201.29	580.56	419.59	397.54	22.06	19.024	
3,100.00	3,083.47	3,052.25	2,981.80	11.45	14.30	-44.67	-209.94	603.40	434.22	411.37	22.85	19.002	
3,200.00	3,182.66	3,151.17	3,077.66	11.85	14.83	-44.81	-218.59	626.24	448.85	425.21	23.65	18.981	
3,300.00	3,281.86	3,250.09	3,173.51	12.25	15.36	-44.95	-227.24	649.07	463.49	439.04	24.45	18.960	
3,400.00	3,381.05	3,349.01	3,269.37	12.66	15.89	-45.07	-235.89	671.91	478.13	452.88	25.24	18.940	
3,500.00	3,480.25	3,447.92	3,365.22	13.06	16.42	-45.19	-244.54	694.74	492.77	466.72	26.04	18.921	
3,600.00	3,579.45	3,546.84	3,461.08	13.46	16.95	-45.30	-253.19	717.58	507.41	480.57	26.84	18.903	
3,700.00	3,678.64	3,645.76	3,556.94	13.87	17.48	-45.40	-261.84	740.42	522.05	494.41	27.64	18.885	
3,800.00	3,777.84	3,744.68	3,652.79	14.27	18.01	-45.50	-270.49	763.25	536.70	508.25	28.44	18.868	
3,900.00	3,877.04	3,843.59	3,748.65	14.67	18.54	-45.59	-279.14	786.09	551.34	522.10	29.25	18.852	
4,000.00	3,976.23	3,942.51	3,844.51	15.08	19.07	-45.68	-287.79	808.92	565.99	535.94	30.05	18.836	
4,100.00	4,075.43	4,041.43	3,940.36	15.48	19.60	-45.76	-296.44	831.76	580.64	549.79	30.85	18.821	
4,200.00	4,174.63	4,140.35	4,036.22	15.89	20.14	-45.84	-305.09	854.59	595.29	563.63	31.65	18.806	
4,300.00	4,273.82	4,239.27	4,132.07	16.29	20.67	-45.92	-313.74	877.43	609.94	577.48	32.46	18.792	
4,400.00	4,373.02	4,338.18	4,227.93	16.70	21.20	-45.99	-322.39	900.27	624.59	591.33	33.26	18.778	
4,500.00	4,472.22	4,437.10	4,323.79	17.10	21.73	-46.06	-331.05	923.10	639.24	605.18	34.07	18.765	
4,600.00	4,571.41	4,536.02	4,419.64	17.51	22.26	-46.13	-339.70	945.94	653.90	619.03	34.87	18.753	
4,700.00	4,670.61	4,634.94	4,515.50	17.91	22.79	-46.19	-348.35	968.77	668.55	632.88	35.67	18.740	
4,800.00	4,769.81	4,733.85	4,611.36	18.32	23.32	-46.25	-357.00	991.61	683.21	646.73	36.48	18.728	
4,900.00	4,869.00	4,832.77	4,707.21	18.72	23.86	-46.31	-365.65	1,014.44	697.86	660.58	37.29	18.717	
5,000.00	4,968.20	4,931.69	4,803.07	19.13	24.39	-46.36	-374.30	1,037.28	712.52	674.43	38.09	18.706	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4V-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.00	5,067.40	5,030.61	4,898.92	19.53	24.92	-46.41	-382.95	1,060.12	727.18	688.28	38.90	18.695	
5,200.00	5,166.59	5,129.53	4,994.78	19.94	25.45	-46.47	-391.60	1,082.95	741.83	702.13	39.70	18.685	
5,300.00	5,265.79	5,228.44	5,090.64	20.34	25.98	-46.51	-400.25	1,105.79	756.49	715.98	40.51	18.675	
5,400.00	5,364.98	5,327.36	5,186.49	20.75	26.52	-46.56	-408.90	1,128.62	771.15	729.84	41.32	18.665	
5,500.00	5,464.18	5,426.28	5,282.35	21.15	27.05	-46.61	-417.55	1,151.46	785.81	743.69	42.12	18.655	
5,600.00	5,563.38	5,525.20	5,378.21	21.56	27.58	-46.65	-426.20	1,174.29	800.47	757.54	42.93	18.646	
5,700.00	5,662.57	5,624.11	5,474.06	21.97	28.11	-46.69	-434.85	1,197.13	815.13	771.39	43.74	18.637	
5,800.00	5,761.77	5,723.03	5,569.92	22.37	28.64	-46.73	-443.50	1,219.97	829.79	785.25	44.54	18.629	
5,900.00	5,860.97	5,821.95	5,665.77	22.78	29.18	-46.77	-452.15	1,242.80	844.45	799.10	45.35	18.620	
6,000.00	5,960.16	5,920.87	5,761.63	23.18	29.71	-46.81	-460.80	1,265.64	859.11	812.96	46.16	18.612	
6,100.00	6,059.36	6,019.79	5,857.49	23.59	30.24	-46.85	-469.45	1,288.47	873.78	826.81	46.97	18.604	
6,200.00	6,158.56	6,118.70	5,953.34	24.00	30.77	-46.88	-478.10	1,311.31	888.44	840.66	47.77	18.597	
6,300.00	6,257.75	6,217.62	6,049.20	24.40	31.31	-46.92	-486.76	1,334.15	903.10	854.52	48.58	18.589	
6,400.00	6,356.95	6,316.54	6,145.06	24.81	31.84	-46.95	-495.41	1,356.98	917.76	868.37	49.39	18.582	
6,500.00	6,456.15	6,415.46	6,240.91	25.21	32.37	-46.98	-504.06	1,379.82	932.43	882.23	50.20	18.575	
6,600.00	6,555.34	6,514.38	6,336.77	25.62	32.90	-47.01	-512.71	1,402.65	947.09	896.08	51.01	18.568	
6,702.76	6,657.28	6,616.03	6,435.27	26.04	33.45	-47.04	-521.60	1,426.12	962.16	910.32	51.84	18.561	
6,750.00	6,704.24	6,662.73	6,480.53	26.22	33.70	-17.52	-525.68	1,436.90	969.03	916.83	52.20	18.564	
6,800.00	6,754.03	6,711.98	6,528.26	26.40	33.97	24.37	-529.99	1,448.27	976.19	923.66	52.53	18.582	
6,850.00	6,803.66	6,760.79	6,575.56	26.56	34.23	49.49	-534.26	1,459.54	983.24	930.42	52.82	18.614	
6,900.00	6,852.89	6,808.93	6,622.21	26.70	34.49	61.54	-538.47	1,470.65	990.23	937.16	53.07	18.659	
6,950.00	6,901.49	6,856.16	6,667.98	26.83	34.74	68.18	-542.60	1,481.56	997.25	943.97	53.28	18.718	
7,000.00	6,949.20	6,904.90	6,715.28	26.95	35.00	72.44	-545.79	1,492.82	1,004.35	950.87	53.48	18.782	
7,050.00	6,995.81	6,955.38	6,764.37	27.05	35.25	75.42	-545.66	1,504.51	1,011.47	957.79	53.68	18.844	
7,100.00	7,041.08	7,007.28	6,814.72	27.15	35.48	77.66	-541.82	1,516.50	1,018.57	964.69	53.88	18.905	
7,150.00	7,084.79	7,060.73	6,866.14	27.23	35.70	79.43	-533.97	1,528.73	1,025.60	971.52	54.08	18.964	
7,200.00	7,126.74	7,115.83	6,918.40	27.31	35.89	80.91	-521.77	1,541.16	1,032.52	978.22	54.29	19.018	
7,250.00	7,166.71	7,172.70	6,971.22	27.37	36.07	82.17	-504.89	1,553.72	1,039.26	984.75	54.51	19.067	
7,300.00	7,204.52	7,231.45	7,024.24	27.42	36.24	83.27	-482.98	1,566.31	1,045.76	991.04	54.72	19.110	
7,350.00	7,239.97	7,292.16	7,077.00	27.47	36.38	84.26	-455.73	1,578.84	1,051.97	997.03	54.94	19.147	
7,400.00	7,272.89	7,354.91	7,128.98	27.51	36.51	85.16	-422.85	1,591.18	1,057.80	1,002.64	55.16	19.177	
7,450.00	7,303.14	7,419.75	7,179.53	27.54	36.61	85.98	-384.10	1,603.17	1,063.19	1,007.82	55.37	19.200	
7,500.00	7,330.54	7,486.66	7,227.91	27.57	36.69	86.73	-339.35	1,614.64	1,068.06	1,012.47	55.59	19.214	
7,550.00	7,354.98	7,555.63	7,273.30	27.60	36.75	87.41	-288.59	1,625.38	1,072.32	1,016.52	55.80	19.217	
7,600.00	7,376.34	7,626.53	7,314.79	27.63	36.78	88.02	-231.97	1,635.19	1,075.91	1,019.89	56.02	19.206	
7,650.00	7,394.51	7,699.20	7,351.45	27.66	36.80	88.56	-169.86	1,643.84	1,078.75	1,022.50	56.25	19.176	
7,700.00	7,409.39	7,773.42	7,382.38	27.71	36.79	89.02	-102.83	1,651.13	1,080.78	1,024.27	56.52	19.123	
7,750.00	7,420.93	7,848.87	7,406.74	27.77	36.77	89.40	-31.68	1,656.84	1,081.95	1,025.13	56.81	19.043	
7,800.00	7,429.06	7,925.19	7,423.84	27.86	36.74	89.69	42.56	1,660.82	1,082.20	1,025.04	57.16	18.931	
7,850.00	7,433.75	8,001.99	7,433.20	27.97	36.70	89.89	118.72	1,662.95	1,081.53	1,023.96	57.57	18.787	
7,892.48	7,435.00	8,062.48	7,435.00	28.09	36.66	90.00	179.16	1,663.31	1,080.24	1,022.30	57.93	18.646	
7,900.00	7,435.00	8,070.00	7,435.00	28.12	36.66	90.00	186.68	1,663.30	1,079.98	1,021.99	57.99	18.625	
8,000.00	7,435.00	8,169.94	7,435.00	28.50	36.62	90.00	286.63	1,663.18	1,076.55	1,017.79	58.76	18.321	
8,100.00	7,435.00	8,269.88	7,435.00	28.99	36.60	90.00	386.57	1,663.05	1,073.12	1,013.43	59.69	17.979	
8,200.00	7,435.00	8,369.83	7,435.00	29.57	36.61	90.00	486.51	1,662.93	1,069.69	1,008.93	60.76	17.605	
8,300.00	7,435.00	8,469.77	7,435.00	30.22	36.67	90.00	586.45	1,662.81	1,066.26	1,004.28	61.98	17.204	
8,400.00	7,435.00	8,569.71	7,435.00	30.94	36.77	90.00	686.39	1,662.68	1,062.82	999.50	63.33	16.783	
8,500.00	7,435.00	8,669.65	7,435.00	31.72	36.95	90.00	786.33	1,662.56	1,059.39	994.59	64.80	16.348	
8,600.00	7,435.00	8,769.59	7,435.00	32.56	37.22	90.00	886.27	1,662.44	1,055.96	989.57	66.39	15.905	
8,700.00	7,435.00	8,869.53	7,435.00	33.44	37.62	90.00	986.21	1,662.31	1,052.53	984.44	68.09	15.457	
8,800.00	7,435.00	8,969.47	7,435.00	34.38	38.15	90.00	1,086.15	1,662.19	1,049.10	979.20	69.90	15.009	
8,900.00	7,435.00	9,069.41	7,435.00	35.36	38.81	90.00	1,186.09	1,662.07	1,045.67	973.88	71.79	14.566	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4V-32H-O268 - OH - PLAN #2												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
9,000.00	7,435.00	9,169.35	7,435.00	36.38	39.58	90.00	1,286.04	1,661.94	1,042.24	968.47	73.77	14.128	
9,100.00	7,435.00	9,269.30	7,435.00	37.43	40.45	90.00	1,385.98	1,661.82	1,038.81	962.98	75.83	13.699	
9,200.00	7,435.00	9,369.24	7,435.00	38.52	41.39	90.00	1,485.92	1,661.70	1,035.38	957.41	77.96	13.280	
9,300.00	7,435.00	9,469.18	7,435.00	39.64	42.39	90.00	1,585.86	1,661.58	1,031.94	951.78	80.16	12.873	
9,400.00	7,435.00	9,569.12	7,435.00	40.79	43.43	90.00	1,685.80	1,661.45	1,028.51	946.09	82.42	12.478	
9,500.00	7,435.00	9,669.06	7,435.00	41.97	44.53	90.00	1,785.74	1,661.33	1,025.08	940.34	84.74	12.096	
9,600.00	7,435.00	9,769.00	7,435.00	43.17	45.65	90.00	1,885.68	1,661.21	1,021.65	934.54	87.11	11.728	
9,700.00	7,435.00	9,868.94	7,435.00	44.39	46.81	90.00	1,985.62	1,661.08	1,018.22	928.69	89.53	11.373	
9,800.00	7,435.00	9,968.88	7,435.00	45.64	48.00	90.00	2,085.56	1,660.96	1,014.79	922.79	92.00	11.031	
9,900.00	7,435.00	10,068.82	7,435.00	46.90	49.21	90.00	2,185.51	1,660.84	1,011.36	916.86	94.50	10.702	
9,915.75	7,435.00	10,084.57	7,435.00	47.10	49.40	90.00	2,201.25	1,660.82	1,010.82	915.92	94.90	10.652	
10,000.00	7,435.00	10,168.80	7,435.00	48.18	50.44	90.00	2,285.48	1,660.71	1,009.17	912.12	97.05	10.399	
10,014.06	7,435.00	10,182.86	7,435.00	48.37	50.61	90.00	2,299.54	1,660.70	1,009.13	911.72	97.41	10.359	
10,100.00	7,435.00	10,268.78	7,435.00	49.50	51.69	90.00	2,385.46	1,660.59	1,010.42	910.77	99.65	10.139	
10,120.42	7,435.00	10,289.19	7,435.00	49.77	51.95	90.00	2,405.87	1,660.57	1,011.11	910.92	100.19	10.092	
10,200.00	7,435.00	10,368.72	7,435.00	50.84	52.97	90.00	2,485.40	1,660.47	1,014.06	911.76	102.30	9.912	
10,300.00	7,435.00	10,468.65	7,435.00	52.20	54.26	90.00	2,585.33	1,660.34	1,017.77	912.79	104.98	9.695	
10,400.00	7,435.00	10,568.58	7,435.00	53.57	55.56	90.00	2,685.26	1,660.22	1,021.48	913.79	107.69	9.485	
10,500.00	7,435.00	10,668.51	7,435.00	54.95	56.88	90.00	2,785.19	1,660.10	1,025.19	914.77	110.43	9.284	
10,600.00	7,435.00	10,768.44	7,435.00	56.34	58.22	90.00	2,885.12	1,659.97	1,028.91	915.72	113.19	9.090	
10,700.00	7,435.00	10,868.37	7,435.00	57.75	59.56	90.00	2,985.05	1,659.85	1,032.62	916.64	115.97	8.904	
10,800.00	7,435.00	10,968.30	7,435.00	59.17	60.92	90.00	3,084.98	1,659.73	1,036.33	917.55	118.78	8.725	
10,900.00	7,435.00	11,068.23	7,435.00	60.60	62.29	90.00	3,184.91	1,659.61	1,040.04	918.44	121.60	8.553	
11,000.00	7,435.00	11,168.17	7,435.00	62.04	63.67	90.00	3,284.85	1,659.48	1,043.75	919.31	124.45	8.387	
11,100.00	7,435.00	11,268.10	7,435.00	63.48	65.06	90.00	3,384.78	1,659.36	1,047.46	920.16	127.31	8.228	
11,200.00	7,435.00	11,368.03	7,435.00	64.94	66.45	90.00	3,484.71	1,659.24	1,051.18	920.99	130.19	8.074	
11,300.00	7,435.00	11,467.96	7,435.00	66.40	67.86	90.00	3,584.64	1,659.11	1,054.89	921.81	133.08	7.927	
11,400.00	7,435.00	11,567.89	7,435.00	67.87	69.27	90.00	3,684.57	1,658.99	1,058.60	922.62	135.98	7.785	
11,500.00	7,435.00	11,667.82	7,435.00	69.34	70.69	90.00	3,784.50	1,658.87	1,062.31	923.41	138.90	7.648	
11,600.00	7,435.00	11,767.75	7,435.00	70.83	72.12	90.00	3,884.43	1,658.74	1,066.02	924.19	141.83	7.516	
11,700.00	7,435.00	11,867.68	7,435.00	72.31	73.56	90.00	3,984.36	1,658.62	1,069.73	924.96	144.78	7.389	
11,800.00	7,435.00	11,967.61	7,435.00	73.81	75.00	90.00	4,084.29	1,658.50	1,073.45	925.71	147.73	7.266	
11,900.00	7,435.00	12,067.55	7,435.00	75.31	76.44	90.00	4,184.22	1,658.37	1,077.16	926.46	150.70	7.148	
11,978.18	7,435.00	12,135.65	7,435.00	76.25	77.43	90.00	4,252.33	1,658.29	1,080.11	927.34	152.76	7.070 SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4W-32H-O268 - 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	2.00	2.00	0.00	0.00	90.33	-0.35	60.15	60.16				
100.00	100.00	102.00	102.00	0.14	0.15	90.33	-0.35	60.15	60.16	59.87	0.28	212.418	
115.99	115.99	117.99	117.99	0.20	0.20	90.33	-0.35	60.15	60.16	59.76	0.40	151.217 CC	
200.00	200.00	201.98	201.98	0.50	0.50	90.34	-0.35	60.15	60.16	59.16	1.00	60.167 ES	
300.00	300.00	300.89	300.87	0.85	0.85	91.77	-1.89	61.04	61.08	59.37	1.71	35.683	
400.00	400.00	399.11	398.96	1.21	1.19	95.36	-5.99	63.82	64.18	61.72	2.45	26.174	
500.00	500.00	496.54	496.10	1.57	1.54	98.56	-10.50	69.69	70.73	67.50	3.22	21.933	
600.00	600.00	593.45	592.48	1.93	1.90	100.82	-15.06	78.81	80.80	76.80	4.00	20.222	
700.00	700.00	689.63	687.75	2.29	2.28	102.19	-19.67	91.08	94.26	89.50	4.76	19.819	
800.00	800.00	784.87	781.64	2.65	2.67	102.87	-24.31	106.37	111.00	105.49	5.50	20.169	
900.00	899.98	879.26	874.12	2.99	3.08	-34.52	-28.97	124.60	129.52	123.30	6.22	20.823	
1,000.00	999.84	972.95	965.28	3.33	3.51	-35.44	-33.65	145.70	148.41	141.49	6.92	21.460	
1,100.00	1,099.45	1,065.87	1,054.96	3.67	3.98	-36.93	-38.35	169.57	167.76	160.14	7.61	22.039	
1,163.41	1,162.43	1,126.27	1,112.87	3.89	4.30	-38.12	-41.43	186.46	180.16	172.12	8.04	22.402	
1,200.00	1,198.73	1,162.10	1,147.20	4.02	4.49	-38.92	-43.26	196.56	187.13	178.84	8.29	22.572	
1,300.00	1,297.93	1,260.03	1,241.03	4.39	5.03	-40.81	-48.25	224.16	206.34	197.35	8.99	22.953	
1,400.00	1,397.13	1,357.96	1,334.86	4.76	5.57	-42.39	-53.25	251.75	225.72	216.02	9.71	23.257	
1,500.00	1,496.32	1,455.89	1,428.68	5.13	6.13	-43.71	-58.24	279.35	245.25	234.81	10.44	23.499	
1,600.00	1,595.52	1,553.82	1,522.51	5.51	6.69	-44.84	-63.23	306.95	264.88	253.70	11.18	23.692	
1,700.00	1,694.71	1,651.75	1,616.34	5.90	7.26	-45.81	-68.23	334.55	284.60	272.67	11.93	23.848	
1,800.00	1,793.91	1,749.68	1,710.17	6.29	7.83	-46.66	-73.22	362.15	304.39	291.69	12.70	23.974	
1,900.00	1,893.11	1,847.61	1,803.99	6.68	8.40	-47.40	-78.22	389.75	324.23	310.77	13.47	24.077	
2,000.00	1,992.30	1,945.54	1,897.82	7.07	8.98	-48.06	-83.21	417.35	344.12	329.88	14.24	24.161	
2,100.00	2,091.50	2,043.47	1,991.65	7.46	9.55	-48.65	-88.20	444.95	364.05	349.03	15.02	24.230	
2,200.00	2,190.70	2,141.40	2,085.47	7.86	10.13	-49.17	-93.20	472.55	384.02	368.21	15.81	24.288	
2,300.00	2,289.89	2,239.33	2,179.30	8.25	10.71	-49.64	-98.19	500.15	404.01	387.41	16.60	24.335	
2,400.00	2,389.09	2,337.26	2,273.13	8.65	11.29	-50.07	-103.19	527.74	424.02	406.63	17.40	24.375	
2,500.00	2,488.29	2,435.19	2,366.96	9.05	11.87	-50.46	-108.18	555.34	444.06	425.86	18.19	24.408	
2,600.00	2,587.48	2,533.12	2,460.78	9.45	12.45	-50.82	-113.17	582.94	464.11	445.12	18.99	24.436	
2,700.00	2,686.68	2,631.05	2,554.61	9.85	13.03	-51.15	-118.17	610.54	484.18	464.38	19.80	24.459	
2,800.00	2,785.88	2,728.98	2,648.44	10.25	13.62	-51.45	-123.16	638.14	504.26	483.66	20.60	24.479	
2,900.00	2,885.07	2,826.91	2,742.27	10.65	14.20	-51.73	-128.16	665.74	524.36	502.95	21.41	24.496	
3,000.00	2,984.27	2,924.84	2,836.09	11.05	14.79	-51.98	-133.15	693.34	544.46	522.25	22.21	24.510	
3,100.00	3,083.47	3,022.77	2,929.92	11.45	15.37	-52.22	-138.14	720.94	564.58	541.56	23.02	24.521	
3,200.00	3,182.66	3,120.70	3,023.75	11.85	15.95	-52.44	-143.14	748.54	584.70	560.87	23.84	24.531	
3,300.00	3,281.86	3,218.63	3,117.58	12.25	16.54	-52.65	-148.13	776.14	604.84	580.19	24.65	24.540	
3,400.00	3,381.05	3,316.56	3,211.40	12.66	17.13	-52.85	-153.13	803.73	624.98	599.52	25.46	24.547	
3,500.00	3,480.25	3,414.49	3,305.23	13.06	17.71	-53.03	-158.12	831.33	645.12	618.85	26.28	24.552	
3,600.00	3,579.45	3,512.41	3,399.06	13.46	18.30	-53.20	-163.11	858.93	665.28	638.18	27.09	24.557	
3,700.00	3,678.64	3,610.34	3,492.88	13.87	18.88	-53.36	-168.11	886.53	685.43	657.53	27.91	24.561	
3,800.00	3,777.84	3,708.27	3,586.71	14.27	19.47	-53.51	-173.10	914.13	705.60	676.87	28.72	24.565	
3,900.00	3,877.04	3,806.20	3,680.54	14.67	20.06	-53.66	-178.10	941.73	725.76	696.22	29.54	24.567	
4,000.00	3,976.23	3,904.13	3,774.37	15.08	20.64	-53.79	-183.09	969.33	745.93	715.57	30.36	24.569	
4,100.00	4,075.43	4,002.06	3,868.19	15.48	21.23	-53.92	-188.08	996.93	766.11	734.93	31.18	24.571	
4,200.00	4,174.63	4,099.99	3,962.02	15.89	21.82	-54.04	-193.08	1,024.53	786.29	754.29	32.00	24.572	
4,300.00	4,273.82	4,197.92	4,055.85	16.29	22.40	-54.16	-198.07	1,052.13	806.47	773.65	32.82	24.573	
4,400.00	4,373.02	4,295.85	4,149.68	16.70	22.99	-54.27	-203.07	1,079.72	826.65	793.01	33.64	24.573	
4,500.00	4,472.22	4,393.78	4,243.50	17.10	23.58	-54.37	-208.06	1,107.32	846.84	812.38	34.46	24.574	
4,600.00	4,571.41	4,491.71	4,337.33	17.51	24.17	-54.47	-213.05	1,134.92	867.03	831.75	35.28	24.574	
4,700.00	4,670.61	4,589.64	4,431.16	17.91	24.75	-54.57	-218.05	1,162.52	887.22	851.12	36.11	24.573	
4,800.00	4,769.81	4,687.57	4,524.98	18.32	25.34	-54.66	-223.04	1,190.12	907.42	870.49	36.93	24.573	
4,900.00	4,869.00	4,785.50	4,618.81	18.72	25.93	-54.75	-228.04	1,217.72	927.62	889.87	37.75	24.572	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4W-32H-O268 - OH - PLAN #2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft	
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.00	4,968.20	4,883.43	4,712.64	19.13	26.52	-54.83	-233.03	1,245.32	947.81	909.24	38.57	24.572		
5,100.00	5,067.40	4,981.36	4,806.47	19.53	27.11	-54.91	-238.02	1,272.92	968.02	928.62	39.40	24.571		
5,200.00	5,166.59	5,079.29	4,900.29	19.94	27.69	-54.99	-243.02	1,300.52	988.22	948.00	40.22	24.570		
5,300.00	5,265.79	5,177.22	4,994.12	20.34	28.28	-55.06	-248.01	1,328.12	1,008.42	967.38	41.04	24.569		
5,400.00	5,364.98	5,275.15	5,087.95	20.75	28.87	-55.13	-253.01	1,355.72	1,028.63	986.76	41.87	24.568		
5,500.00	5,464.18	5,373.08	5,181.78	21.15	29.46	-55.20	-258.00	1,383.31	1,048.83	1,006.14	42.69	24.567		
5,600.00	5,563.38	5,471.01	5,275.60	21.56	30.05	-55.27	-262.99	1,410.91	1,069.04	1,025.52	43.52	24.565		
5,700.00	5,662.57	5,568.94	5,369.43	21.97	30.63	-55.33	-267.99	1,438.51	1,089.25	1,044.91	44.34	24.564		
5,800.00	5,761.77	5,666.87	5,463.26	22.37	31.22	-55.39	-272.98	1,466.11	1,109.46	1,064.30	45.17	24.563		
5,900.00	5,860.97	5,764.80	5,557.08	22.78	31.81	-55.45	-277.98	1,493.71	1,129.68	1,083.68	45.99	24.561		
6,000.00	5,960.16	5,862.73	5,650.91	23.18	32.40	-55.51	-282.97	1,521.31	1,149.89	1,103.07	46.82	24.560		
6,100.00	6,059.36	5,960.66	5,744.74	23.59	32.99	-55.56	-287.96	1,548.91	1,170.10	1,122.46	47.65	24.559		
6,200.00	6,158.56	6,058.58	5,838.57	24.00	33.58	-55.61	-292.96	1,576.51	1,190.32	1,141.85	48.47	24.557		
6,300.00	6,257.75	6,156.51	5,932.39	24.40	34.16	-55.67	-297.95	1,604.11	1,210.54	1,161.24	49.30	24.556		
6,400.00	6,356.95	6,254.44	6,026.22	24.81	34.75	-55.71	-302.95	1,631.71	1,230.75	1,180.63	50.12	24.554		
6,500.00	6,456.15	6,352.37	6,120.05	25.21	35.34	-55.76	-307.94	1,659.30	1,250.97	1,200.02	50.95	24.553		
6,600.00	6,555.34	6,450.30	6,213.88	25.62	35.93	-55.81	-312.93	1,686.90	1,271.19	1,219.41	51.78	24.551		
6,702.76	6,657.28	6,550.94	6,310.30	26.04	36.53	-55.85	-318.07	1,715.26	1,291.97	1,239.34	52.63	24.550		
6,750.00	6,704.24	6,597.24	6,354.65	26.22	36.81	-26.55	-320.43	1,728.31	1,301.23	1,248.23	53.00	24.553		
6,800.00	6,754.03	6,646.18	6,401.55	26.40	37.11	15.11	-322.92	1,742.11	1,310.39	1,257.05	53.35	24.564		
6,850.00	6,803.66	6,694.82	6,448.15	26.56	37.40	39.99	-325.40	1,755.81	1,318.88	1,265.23	53.65	24.583		
6,900.00	6,852.89	6,742.93	6,494.24	26.70	37.69	51.79	-327.86	1,769.37	1,326.72	1,272.80	53.91	24.608		
6,950.00	6,901.49	6,790.26	6,539.59	26.83	37.97	58.21	-330.27	1,782.71	1,333.94	1,279.80	54.14	24.638		
7,000.00	6,949.20	6,836.59	6,583.98	26.95	38.25	62.26	-332.63	1,795.77	1,340.63	1,286.29	54.34	24.673		
7,050.00	6,995.81	6,881.69	6,627.19	27.05	38.52	65.13	-334.93	1,808.48	1,346.86	1,292.36	54.50	24.715		
7,100.00	7,041.08	6,925.35	6,669.02	27.15	38.78	67.36	-337.16	1,820.78	1,352.75	1,298.12	54.63	24.764		
7,150.00	7,084.79	6,967.34	6,709.26	27.23	39.04	69.20	-339.30	1,832.62	1,358.43	1,303.70	54.73	24.820		
7,200.00	7,126.74	7,007.47	6,747.70	27.31	39.28	70.77	-341.35	1,843.93	1,364.02	1,309.21	54.82	24.884		
7,250.00	7,166.71	7,045.54	6,784.18	27.37	39.51	72.14	-343.29	1,854.66	1,369.69	1,314.81	54.89	24.956		
7,300.00	7,204.52	7,081.36	6,818.50	27.42	39.72	73.35	-345.11	1,864.75	1,375.58	1,320.63	54.95	25.035		
7,350.00	7,239.97	7,114.77	6,850.50	27.47	39.92	74.39	-346.82	1,874.17	1,381.83	1,326.83	55.00	25.123		
7,400.00	7,272.89	7,145.59	6,880.03	27.51	40.11	75.27	-348.39	1,882.85	1,388.59	1,333.53	55.07	25.217		
7,450.00	7,303.14	7,173.67	6,906.94	27.54	40.28	75.98	-349.82	1,890.77	1,396.01	1,340.87	55.14	25.318		
7,500.00	7,330.54	7,204.77	6,936.75	27.57	40.46	76.71	-351.23	1,899.52	1,404.18	1,348.90	55.28	25.403		
7,550.00	7,354.98	7,245.45	6,975.82	27.60	40.70	77.69	-351.25	1,910.85	1,412.98	1,357.44	55.53	25.443		
7,600.00	7,376.34	7,290.03	7,018.61	27.63	40.94	78.71	-348.62	1,923.04	1,422.37	1,366.52	55.85	25.466		
7,650.00	7,394.51	7,340.09	7,066.44	27.66	41.19	79.84	-342.40	1,936.40	1,432.32	1,376.09	56.23	25.472		
7,700.00	7,409.39	7,398.21	7,121.37	27.71	41.46	81.16	-330.85	1,951.39	1,442.75	1,386.10	56.65	25.467		
7,750.00	7,420.93	7,468.73	7,186.67	27.77	41.75	82.82	-310.72	1,968.70	1,453.55	1,396.46	57.09	25.462		
7,800.00	7,429.06	7,559.53	7,267.60	27.86	42.07	85.03	-275.23	1,989.31	1,464.43	1,406.96	57.48	25.479		
7,850.00	7,433.75	7,685.68	7,371.89	27.97	42.41	88.15	-209.09	2,014.22	1,474.88	1,417.20	57.68	25.570		
7,892.48	7,435.00	7,841.69	7,483.44	28.09	42.69	91.82	-103.09	2,038.02	1,482.55	1,425.02	57.53	25.771		
7,900.00	7,435.00	7,876.29	7,505.07	28.12	42.73	92.66	-76.41	2,042.14	1,483.68	1,426.22	57.46	25.821		
8,000.00	7,435.00	8,390.94	7,660.00	28.50	42.84	98.70	402.92	2,048.49	1,483.44	1,425.70	57.74	25.690		
8,100.00	7,435.00	8,490.30	7,660.00	28.99	42.81	98.77	501.96	2,040.52	1,472.26	1,413.71	58.55	25.147		
8,200.00	7,435.00	8,589.65	7,660.00	29.57	42.80	98.84	601.00	2,032.55	1,461.07	1,401.57	59.50	24.555		
8,300.00	7,435.00	8,689.01	7,660.00	30.22	42.80	98.90	700.03	2,024.58	1,449.89	1,389.29	60.61	23.923		
8,400.00	7,435.00	8,788.37	7,660.00	30.94	42.83	98.97	799.07	2,016.61	1,438.72	1,376.86	61.85	23.260		
8,500.00	7,435.00	8,887.73	7,660.00	31.72	42.87	99.04	898.11	2,008.64	1,427.54	1,364.31	63.23	22.576		
8,600.00	7,435.00	8,987.09	7,660.00	32.56	42.95	99.12	997.15	2,000.67	1,416.37	1,351.63	64.74	21.879		
8,700.00	7,435.00	9,086.44	7,660.00	33.44	43.06	99.19	1,096.19	1,992.70	1,405.20	1,338.84	66.36	21.176		
8,800.00	7,435.00	9,185.80	7,660.00	34.38	43.22	99.26	1,195.22	1,984.74	1,394.03	1,325.95	68.08	20.475		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - HWY52 4W-32H-O268 - OH - PLAN #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
8,900.00	7,435.00	9,285.16	7,660.00	35.36	43.44	99.34	1,294.26	1,976.77	1,382.86	1,312.95	69.91	19.781		
9,000.00	7,435.00	9,384.52	7,660.00	36.38	43.74	99.42	1,393.30	1,968.80	1,371.70	1,299.87	71.83	19.097		
9,100.00	7,435.00	9,483.88	7,660.00	37.43	44.15	99.49	1,492.34	1,960.83	1,360.54	1,286.71	73.83	18.428		
9,200.00	7,435.00	9,583.23	7,660.00	38.52	44.67	99.57	1,591.38	1,952.86	1,349.38	1,273.47	75.91	17.777		
9,300.00	7,435.00	9,682.59	7,660.00	39.64	45.33	99.65	1,690.41	1,944.89	1,338.22	1,260.17	78.06	17.145		
9,400.00	7,435.00	9,781.95	7,660.00	40.79	46.11	99.74	1,789.45	1,936.92	1,327.07	1,246.80	80.27	16.533		
9,500.00	7,435.00	9,876.67	7,660.00	41.97	46.95	99.81	1,883.87	1,929.35	1,315.95	1,233.42	82.52	15.946		
9,600.00	7,435.00	9,945.26	7,660.00	43.17	47.62	99.86	1,952.31	1,924.91	1,306.32	1,221.57	84.75	15.414		
9,700.00	7,435.00	10,014.13	7,660.00	44.39	48.34	99.90	2,021.13	1,922.10	1,299.05	1,212.04	87.01	14.929		
9,800.00	7,435.00	10,084.75	7,660.00	45.64	49.10	99.93	2,091.73	1,920.94	1,294.15	1,204.84	89.31	14.490		
9,900.00	7,435.00	10,184.68	7,660.00	46.90	50.23	99.96	2,191.66	1,920.36	1,290.32	1,198.56	91.76	14.063		
9,915.75	7,435.00	10,200.41	7,660.00	47.10	50.42	99.96	2,207.39	1,920.27	1,289.71	1,197.57	92.14	13.997		
10,000.00	7,435.00	10,284.64	7,660.00	48.18	51.40	99.97	2,291.62	1,919.78	1,287.71	1,193.46	94.25	13.663		
10,027.21	7,435.00	10,311.84	7,660.00	48.54	51.73	99.97	2,318.82	1,919.62	1,287.58	1,192.64	94.94	13.562		
10,100.00	7,435.00	10,384.63	7,660.00	49.50	52.60	99.97	2,391.61	1,919.20	1,288.49	1,191.68	96.81	13.310		
10,120.42	7,435.00	10,405.04	7,660.00	49.77	52.85	99.97	2,412.01	1,919.08	1,289.07	1,191.73	97.34	13.243		
10,200.00	7,435.00	10,484.58	7,660.00	50.84	53.83	99.95	2,491.55	1,918.61	1,291.62	1,192.20	99.43	12.991		
10,300.00	7,435.00	10,584.52	7,660.00	52.20	55.07	99.92	2,591.50	1,918.03	1,294.83	1,192.75	102.08	12.685		
10,400.00	7,435.00	10,684.47	7,660.00	53.57	56.34	99.90	2,691.44	1,917.45	1,298.03	1,193.28	104.75	12.391		
10,500.00	7,435.00	10,784.42	7,660.00	54.95	57.63	99.87	2,791.39	1,916.87	1,301.24	1,193.77	107.46	12.109		
10,600.00	7,435.00	10,884.37	7,660.00	56.34	58.93	99.85	2,891.33	1,916.29	1,304.44	1,194.25	110.19	11.838		
10,700.00	7,435.00	10,984.31	7,660.00	57.75	60.25	99.82	2,991.28	1,915.70	1,307.65	1,194.70	112.95	11.577		
10,800.00	7,435.00	11,084.26	7,660.00	59.17	61.59	99.80	3,091.23	1,915.12	1,310.85	1,195.12	115.73	11.327		
10,900.00	7,435.00	11,184.21	7,660.00	60.60	62.93	99.78	3,191.17	1,914.54	1,314.06	1,195.53	118.53	11.086		
11,000.00	7,435.00	11,284.15	7,660.00	62.04	64.29	99.75	3,291.12	1,913.96	1,317.26	1,195.92	121.35	10.855		
11,100.00	7,435.00	11,384.10	7,660.00	63.48	65.66	99.73	3,391.06	1,913.38	1,320.47	1,196.29	124.18	10.633		
11,200.00	7,435.00	11,484.05	7,660.00	64.94	67.04	99.70	3,491.01	1,912.80	1,323.68	1,196.64	127.04	10.420		
11,300.00	7,435.00	11,583.99	7,660.00	66.40	68.43	99.68	3,590.95	1,912.21	1,326.88	1,196.98	129.91	10.214		
11,400.00	7,435.00	11,683.94	7,660.00	67.87	69.83	99.66	3,690.90	1,911.63	1,330.09	1,197.30	132.79	10.017		
11,500.00	7,435.00	11,783.89	7,660.00	69.34	71.23	99.63	3,790.84	1,911.05	1,333.30	1,197.61	135.69	9.826		
11,600.00	7,435.00	11,883.84	7,660.00	70.83	72.64	99.61	3,890.79	1,910.47	1,336.50	1,197.91	138.60	9.643		
11,700.00	7,435.00	11,983.78	7,660.00	72.31	74.07	99.59	3,990.73	1,909.89	1,339.71	1,198.19	141.52	9.467		
11,800.00	7,435.00	12,083.73	7,660.00	73.81	75.49	99.56	4,090.68	1,909.31	1,342.92	1,198.47	144.45	9.297		
11,900.00	7,435.00	12,183.68	7,660.00	75.31	76.93	99.54	4,190.62	1,908.72	1,346.13	1,198.73	147.40	9.133		
11,978.18	7,435.00	12,243.21	7,660.00	76.25	77.78	99.53	4,250.16	1,908.38	1,348.76	1,199.37	149.39	9.029 SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Nelson 1 - TEXAS TEA - NO SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 5000-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	-2.99	1,422.91	-74.42	1,425.59				
100.00	100.00	54.00	54.00	0.14	0.10	-2.99	1,422.91	-74.42	1,424.85	1,424.62	0.23	6,071.896	
200.00	200.00	154.00	154.00	0.50	0.28	-2.99	1,422.91	-74.42	1,424.85	1,424.08	0.77	1,845.377	
300.00	300.00	254.00	254.00	0.85	0.45	-2.99	1,422.91	-74.42	1,424.85	1,423.54	1.31	1,088.026	
400.00	400.00	354.00	354.00	1.21	0.63	-2.99	1,422.91	-74.42	1,424.85	1,423.01	1.85	771.428	
500.00	500.00	454.00	454.00	1.57	0.81	-2.99	1,422.91	-74.42	1,424.85	1,422.47	2.38	597.550	
600.00	600.00	554.00	554.00	1.93	0.99	-2.99	1,422.91	-74.42	1,424.85	1,421.93	2.92	487.638	
700.00	700.00	654.00	654.00	2.29	1.17	-2.99	1,422.91	-74.42	1,424.85	1,421.39	3.46	411.878	
800.00	800.00	754.00	754.00	2.65	1.35	-2.99	1,422.91	-74.42	1,424.85	1,420.86	4.00	356.493	CC, ES
900.00	899.98	853.98	853.98	2.99	1.53	-140.42	1,422.91	-74.42	1,426.20	1,421.68	4.52	315.553	
1,000.00	999.84	953.84	953.84	3.33	1.71	-140.50	1,422.91	-74.42	1,430.24	1,425.20	5.03	284.124	
1,100.00	1,099.45	1,053.45	1,053.45	3.67	1.89	-140.63	1,422.91	-74.42	1,436.98	1,431.42	5.55	258.697	
1,163.41	1,162.43	1,116.43	1,116.43	3.89	2.00	-140.74	1,422.91	-74.42	1,442.66	1,436.77	5.89	244.982	
1,200.00	1,198.73	1,152.73	1,152.73	4.02	2.06	-140.86	1,422.91	-74.42	1,446.26	1,440.18	6.08	237.783	
1,300.00	1,297.93	1,251.93	1,251.93	4.39	2.24	-141.17	1,422.91	-74.42	1,456.13	1,449.51	6.61	220.242	
1,400.00	1,397.13	1,351.13	1,351.13	4.76	2.42	-141.48	1,422.91	-74.42	1,466.03	1,458.89	7.14	205.184	
1,500.00	1,496.32	1,450.32	1,450.32	5.13	2.60	-141.79	1,422.91	-74.42	1,475.98	1,468.30	7.68	192.139	
1,600.00	1,595.52	1,549.52	1,549.52	5.51	2.77	-142.09	1,422.91	-74.42	1,485.98	1,477.75	8.22	180.747	
1,700.00	1,694.71	1,648.71	1,648.71	5.90	2.95	-142.39	1,422.91	-74.42	1,496.01	1,487.24	8.76	170.723	SF

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Nelson E Unit 2 - CPR WELL - GYRO												Offset Site Error:	0.00 usft
Survey Program: 100- GyroFlex												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	46.61	859.02	908.72	1,251.86				
100.00	100.00	41.19	41.19	0.14	0.03	46.61	859.01	908.72	1,250.47	1,250.31	0.15	8,107.158	
200.00	200.00	141.16	141.16	0.50	0.09	46.61	858.93	908.76	1,250.44	1,249.87	0.57	2,204.828	
221.89	221.89	162.88	162.88	0.57	0.10	46.61	858.94	908.75	1,250.44	1,249.78	0.66	1,894.155	
300.00	300.00	240.12	240.12	0.85	0.15	46.60	859.11	908.62	1,250.46	1,249.47	0.99	1,262.663	
400.00	400.00	338.93	338.93	1.21	0.24	46.59	859.39	908.52	1,250.59	1,249.16	1.42	879.987	
500.00	500.00	437.92	437.92	1.57	0.36	46.58	859.70	908.50	1,250.79	1,248.91	1.87	667.383	
600.00	600.00	539.46	539.46	1.93	0.48	46.58	859.95	908.62	1,251.04	1,248.71	2.33	536.576	
700.00	700.00	642.28	642.27	2.29	0.59	46.56	860.10	908.38	1,250.97	1,248.21	2.76	453.748	
800.00	800.00	741.09	741.08	2.65	0.72	46.53	860.58	907.87	1,250.93	1,247.77	3.17	395.141	
809.84	809.84	750.90	750.89	2.68	0.73	-90.87	860.63	907.82	1,250.93	1,247.73	3.21	390.186	
900.00	899.98	841.97	841.96	2.99	0.86	-90.97	861.06	907.40	1,250.94	1,247.37	3.57	350.026	
1,000.00	999.84	943.10	943.08	3.33	1.01	-91.26	861.69	906.57	1,250.89	1,246.92	3.97	314.921	
1,016.31	1,016.11	959.29	959.28	3.38	1.04	-91.33	861.80	906.42	1,250.89	1,246.85	4.04	309.750	
1,100.00	1,099.45	1,042.66	1,042.64	3.67	1.16	-91.72	862.44	905.61	1,250.95	1,246.57	4.38	285.648	
1,163.41	1,162.43	1,106.17	1,106.14	3.89	1.25	-92.09	862.97	904.93	1,251.07	1,246.43	4.64	269.365	
1,200.00	1,198.73	1,144.18	1,144.15	4.02	1.31	-92.33	863.28	904.46	1,251.14	1,246.34	4.80	260.630	
1,300.00	1,297.93	1,245.47	1,245.42	4.39	1.46	-92.99	864.07	902.95	1,251.24	1,246.01	5.23	239.212	
1,400.00	1,397.13	1,343.69	1,343.63	4.76	1.60	-93.64	865.01	901.30	1,251.50	1,245.83	5.67	220.837	
1,500.00	1,496.32	1,442.33	1,442.24	5.13	1.75	-94.31	866.13	899.54	1,251.97	1,245.86	6.11	204.876	
1,600.00	1,595.52	1,540.62	1,540.51	5.51	1.90	-94.98	867.37	897.65	1,252.62	1,246.06	6.56	190.960	
1,700.00	1,694.71	1,637.87	1,637.73	5.90	2.05	-95.64	868.77	895.76	1,253.56	1,246.55	7.01	178.782	
1,800.00	1,793.91	1,737.31	1,737.14	6.29	2.20	-96.32	870.27	893.86	1,254.76	1,247.30	7.47	168.007	
1,900.00	1,893.11	1,838.30	1,838.10	6.68	2.36	-97.00	871.54	891.95	1,255.96	1,248.03	7.93	158.418	
2,000.00	1,992.30	1,937.38	1,937.17	7.07	2.51	-97.66	872.53	890.30	1,257.28	1,248.89	8.39	149.898	
2,100.00	2,091.50	2,035.98	2,035.75	7.46	2.66	-98.29	873.35	888.83	1,258.74	1,249.89	8.85	142.264	
2,200.00	2,190.70	2,133.47	2,133.23	7.86	2.81	-98.92	874.18	887.50	1,260.46	1,251.15	9.31	135.400	
2,300.00	2,289.89	2,234.09	2,233.83	8.25	2.96	-99.56	875.06	886.21	1,262.41	1,252.63	9.77	129.163	
2,400.00	2,389.09	2,338.91	2,338.64	8.65	3.12	-100.22	875.57	884.69	1,264.09	1,253.85	10.24	123.444	
2,500.00	2,488.29	2,439.58	2,439.30	9.05	3.25	-100.85	875.75	883.17	1,265.66	1,254.96	10.70	118.255	
2,600.00	2,587.48	2,539.70	2,539.42	9.45	3.38	-101.46	875.74	881.82	1,267.31	1,256.15	11.17	113.495	
2,700.00	2,686.68	2,638.49	2,638.19	9.85	3.51	-102.06	875.66	880.39	1,268.99	1,257.36	11.63	109.111	
2,800.00	2,785.88	2,737.63	2,737.33	10.25	3.65	-102.67	875.79	878.97	1,271.01	1,258.91	12.10	105.077	
2,900.00	2,885.07	2,841.16	2,840.84	10.65	3.78	-103.30	875.57	877.32	1,272.78	1,260.21	12.57	101.281	
3,000.00	2,984.27	2,937.56	2,937.22	11.05	3.91	-103.89	875.42	875.66	1,274.69	1,261.65	13.03	97.810	
3,100.00	3,083.47	3,033.29	3,032.94	11.45	4.05	-104.49	875.68	873.93	1,277.04	1,263.54	13.50	94.627	
3,200.00	3,182.66	3,132.20	3,131.83	11.85	4.20	-105.12	876.14	872.02	1,279.65	1,265.69	13.96	91.667	
3,300.00	3,281.86	3,232.57	3,232.18	12.25	4.35	-105.76	876.67	869.89	1,282.37	1,267.94	14.42	88.900	
3,400.00	3,381.05	3,332.77	3,332.35	12.66	4.50	-106.39	877.09	867.66	1,285.10	1,270.21	14.89	86.309	
3,500.00	3,480.25	3,430.39	3,429.94	13.06	4.65	-107.01	877.55	865.47	1,288.01	1,272.66	15.35	83.903	
3,600.00	3,579.45	3,527.46	3,527.00	13.46	4.80	-107.62	878.05	863.45	1,291.21	1,275.40	15.81	81.663	
3,700.00	3,678.64	3,625.84	3,625.35	13.87	4.95	-108.24	878.68	861.46	1,294.70	1,278.42	16.27	79.567	
3,800.00	3,777.84	3,729.23	3,728.71	14.27	5.11	-108.90	879.35	858.98	1,298.17	1,281.43	16.74	77.566	
3,900.00	3,877.04	3,831.99	3,831.43	14.67	5.26	-109.56	879.82	856.01	1,301.40	1,284.20	17.20	75.661	
4,000.00	3,976.23	3,928.29	3,927.68	15.08	5.41	-110.19	880.32	853.06	1,304.78	1,287.12	17.66	73.893	
4,100.00	4,075.43	4,022.07	4,021.42	15.48	5.55	-110.80	881.09	850.32	1,308.65	1,290.54	18.11	72.257	
4,200.00	4,174.63	4,116.54	4,115.84	15.89	5.70	-111.41	882.14	847.75	1,313.04	1,294.47	18.56	70.731	
4,300.00	4,273.82	4,211.31	4,210.58	16.29	5.85	-112.00	883.37	845.54	1,317.91	1,298.89	19.02	69.302	
4,400.00	4,373.02	4,306.88	4,306.12	16.70	5.99	-112.60	884.85	843.37	1,323.20	1,303.72	19.47	67.956	
4,500.00	4,472.22	4,400.46	4,399.66	17.10	6.13	-113.18	886.53	841.49	1,328.97	1,309.04	19.93	66.697	
4,600.00	4,571.41	4,500.00	4,499.16	17.51	6.28	-113.78	888.41	839.62	1,335.02	1,314.63	20.39	65.475	
4,700.00	4,670.61	4,592.61	4,591.74	17.91	6.42	-114.34	890.36	837.89	1,341.42	1,320.57	20.85	64.342	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Nelson E Unit 2 - CPR WELL - GYRO											Offset Site Error: 0.00 usft		
Survey Program: 100- GyroFlex				Offset Well Error: 0.00 usft									
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
4,800.00	4,769.81	4,695.77	4,694.85	18.32	6.57	-114.96	892.67	835.97	1,348.10	1,326.78	21.33	63.216	
4,900.00	4,869.00	4,787.51	4,786.55	18.72	6.70	-115.50	894.79	834.22	1,354.98	1,333.19	21.79	62.185	
5,000.00	4,968.20	4,883.97	4,882.97	19.13	6.84	-116.07	897.32	832.66	1,362.38	1,340.11	22.27	61.186	
5,100.00	5,067.40	4,991.07	4,990.02	19.53	6.99	-116.69	899.92	830.89	1,369.74	1,346.97	22.76	60.173	
5,200.00	5,166.59	5,089.05	5,087.97	19.94	7.13	-117.24	901.93	829.25	1,376.87	1,353.62	23.25	59.228	
5,300.00	5,265.79	5,187.30	5,186.18	20.34	7.28	-117.79	904.04	827.62	1,384.22	1,360.48	23.73	58.321	
5,400.00	5,364.98	5,285.19	5,284.03	20.75	7.42	-118.33	906.16	826.06	1,391.74	1,367.52	24.23	57.450	
5,500.00	5,464.18	5,381.44	5,380.26	21.15	7.56	-118.85	908.28	824.79	1,399.51	1,374.79	24.72	56.616	
5,600.00	5,563.38	5,483.13	5,481.91	21.56	7.70	-119.39	910.51	823.60	1,407.44	1,382.21	25.23	55.790	
5,700.00	5,662.57	5,584.79	5,583.54	21.97	7.84	-119.92	912.53	822.25	1,415.24	1,389.50	25.74	54.992	
5,800.00	5,761.77	5,685.20	5,683.93	22.37	7.99	-120.43	914.35	820.97	1,423.01	1,396.76	26.24	54.226	
5,900.00	5,860.97	5,786.46	5,785.17	22.78	8.14	-120.95	916.08	819.60	1,430.76	1,404.01	26.75	53.486	
6,000.00	5,960.16	5,881.37	5,880.05	23.18	8.28	-121.43	917.71	818.33	1,438.64	1,411.40	27.25	52.797	
6,100.00	6,059.36	5,976.03	5,974.68	23.59	8.42	-121.89	919.60	817.30	1,446.95	1,419.20	27.75	52.134	
6,200.00	6,158.56	6,072.86	6,071.49	24.00	8.55	-122.36	921.70	816.44	1,455.59	1,427.32	28.27	51.486	
6,300.00	6,257.75	6,173.55	6,172.15	24.40	8.69	-122.84	923.91	815.51	1,464.36	1,435.56	28.80	50.847	
6,400.00	6,356.95	6,274.18	6,272.76	24.81	8.83	-123.31	925.99	814.48	1,473.06	1,443.73	29.33	50.229	
6,500.00	6,456.15	6,370.58	6,369.13	25.21	8.96	-123.76	927.92	813.71	1,481.86	1,452.01	29.85	49.644	
6,600.00	6,555.34	6,467.56	6,466.09	25.62	9.09	-124.19	930.02	813.18	1,490.95	1,460.57	30.38	49.078	
6,850.00	6,803.66	6,714.17	6,712.62	26.56	9.42	-27.77	935.76	811.28	1,499.48	1,467.81	31.67	47.348	
6,900.00	6,852.89	6,763.64	6,762.08	26.70	9.48	-15.86	936.92	810.91	1,492.41	1,460.51	31.90	46.784	
6,950.00	6,901.49	6,812.95	6,811.38	26.83	9.55	-9.44	938.05	810.59	1,481.96	1,449.84	32.12	46.138	
7,000.00	6,949.20	6,862.55	6,860.96	26.95	9.62	-5.47	939.18	810.16	1,468.14	1,435.81	32.33	45.411	
7,050.00	6,995.81	6,910.69	6,909.08	27.05	9.69	-2.73	940.25	809.57	1,451.01	1,418.48	32.53	44.610	
7,100.00	7,041.08	6,956.35	6,954.73	27.15	9.76	-0.67	941.28	808.88	1,430.68	1,397.98	32.70	43.748	
7,150.00	7,084.79	7,000.56	6,998.92	27.23	9.82	1.02	942.29	808.11	1,407.27	1,374.41	32.87	42.819	
7,200.00	7,126.74	7,045.92	7,044.26	27.31	9.89	2.51	943.29	807.29	1,380.85	1,347.83	33.02	41.821	
7,250.00	7,166.71	7,089.12	7,087.44	27.37	9.96	3.92	944.15	806.53	1,351.50	1,318.35	33.16	40.762	
7,300.00	7,204.52	7,126.24	7,124.56	27.42	10.02	5.34	944.85	805.89	1,319.43	1,286.16	33.27	39.660	
7,350.00	7,239.97	7,159.97	7,158.27	27.47	10.07	6.84	945.55	805.28	1,284.89	1,251.53	33.36	38.511	
7,400.00	7,272.89	7,191.51	7,189.79	27.51	10.12	8.51	946.27	804.68	1,248.04	1,214.60	33.44	37.317	
7,450.00	7,303.14	7,221.71	7,219.98	27.54	10.17	10.46	947.00	804.09	1,209.05	1,175.54	33.51	36.078	
7,500.00	7,330.54	7,249.64	7,247.90	27.57	10.21	12.82	947.69	803.54	1,168.08	1,134.52	33.57	34.800	
7,550.00	7,354.98	7,274.72	7,272.97	27.60	10.25	15.79	948.32	803.05	1,125.34	1,091.74	33.60	33.490	
7,600.00	7,376.34	7,296.84	7,295.07	27.63	10.28	19.63	948.88	802.60	1,081.03	1,047.41	33.62	32.151	
7,650.00	7,394.51	7,315.44	7,313.66	27.66	10.31	24.73	949.36	802.23	1,035.40	1,001.77	33.63	30.790	
7,700.00	7,409.39	7,330.90	7,329.11	27.71	10.33	31.70	949.77	801.92	988.67	955.05	33.62	29.410	
7,750.00	7,420.93	7,343.22	7,341.43	27.77	10.35	41.33	950.10	801.67	941.10	907.51	33.59	28.017	
7,800.00	7,429.06	7,352.33	7,350.53	27.86	10.36	54.34	950.35	801.49	892.93	859.38	33.55	26.616	
7,850.00	7,433.75	7,358.15	7,356.35	27.97	10.37	70.44	950.51	801.37	844.43	810.93	33.49	25.212	
7,892.48	7,435.00	7,360.49	7,358.68	28.09	10.38	84.86	950.58	801.33	803.16	769.73	33.43	24.022	
7,900.00	7,435.00	7,360.69	7,358.88	28.12	10.38	84.92	950.58	801.32	795.86	762.44	33.42	23.812	
8,000.00	7,435.00	7,363.35	7,361.55	28.50	10.38	85.71	950.66	801.27	699.27	666.01	33.26	21.022	
8,100.00	7,435.00	7,366.04	7,364.24	28.99	10.39	86.51	950.74	801.22	603.79	570.70	33.09	18.247	
8,200.00	7,435.00	7,368.75	7,366.95	29.57	10.39	87.31	950.81	801.16	510.02	477.09	32.92	15.492	
8,300.00	7,435.00	7,371.49	7,369.68	30.22	10.39	88.12	950.89	801.11	419.12	386.28	32.84	12.764	
8,400.00	7,435.00	7,374.24	7,372.43	30.94	10.40	88.94	950.97	801.05	333.45	300.35	33.10	10.075	
8,500.00	7,435.00	7,377.02	7,375.21	31.72	10.40	89.77	951.05	800.99	258.26	223.75	34.51	7.483	
8,600.00	7,435.00	7,379.82	7,378.01	32.56	10.41	90.60	951.13	800.94	205.42	167.04	38.38	5.352	
8,672.61	7,435.00	7,381.87	7,380.05	33.20	10.41	91.21	951.19	800.90	192.17	150.32	41.84	4.593 CC, ES	
8,700.00	7,435.00	7,382.65	7,380.83	33.44	10.41	91.44	951.21	800.88	194.11	151.37	42.74	4.542 SF	
8,800.00	7,435.00	7,385.49	7,383.68	34.38	10.42	92.29	951.29	800.82	230.53	187.25	43.27	5.327	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Nelson E Unit 2 - CPR WELL - GYRO											Offset Site Error:		0.00 usft
Survey Program: 100- GyroFlex											Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis		Separation Factor
8,900.00	7,435.00	7,388.36	7,386.54	35.36	10.42	93.15	951.38	800.76	297.64	255.81	41.83	7.116	
9,000.00	7,435.00	7,391.26	7,389.44	36.38	10.42	94.01	951.46	800.71	379.50	339.06	40.44	9.384	
9,100.00	7,435.00	7,394.18	7,392.36	37.43	10.43	94.88	951.55	800.65	468.44	429.01	39.43	11.880	
9,200.00	7,435.00	7,397.12	7,395.30	38.52	10.43	95.75	951.64	800.59	561.10	522.38	38.72	14.491	
9,300.00	7,435.00	7,400.00	7,398.17	39.64	10.44	96.60	951.72	800.53	655.91	617.70	38.21	17.165	
9,400.00	7,435.00	7,402.91	7,401.08	40.79	10.44	97.46	951.81	800.47	752.05	714.22	37.83	19.877	
9,500.00	7,435.00	7,405.71	7,403.87	41.97	10.45	98.28	951.89	800.41	849.08	811.53	37.55	22.612	
9,600.00	7,435.00	7,408.48	7,406.65	43.17	10.45	99.09	951.97	800.36	946.71	909.38	37.33	25.361	
9,700.00	7,435.00	7,411.24	7,409.41	44.39	10.45	99.90	952.05	800.30	1,044.79	1,007.63	37.16	28.118	
9,800.00	7,435.00	7,413.98	7,412.15	45.64	10.46	100.70	952.13	800.25	1,143.19	1,106.17	37.02	30.881	
9,900.00	7,435.00	7,416.71	7,414.87	46.90	10.46	101.48	952.21	800.19	1,241.84	1,204.93	36.91	33.646	
9,915.75	7,435.00	7,417.13	7,415.30	47.10	10.46	101.61	952.22	800.19	1,257.40	1,220.50	36.89	34.081	
10,000.00	7,435.00	7,419.43	7,417.59	48.18	10.47	105.17	952.29	800.14	1,340.85	1,304.02	36.83	36.407	
10,100.00	7,435.00	7,422.21	7,420.37	49.50	10.47	112.88	952.37	800.08	1,440.36	1,403.57	36.79	39.152	
10,120.42	7,435.00	7,422.78	7,420.94	49.77	10.47	115.36	952.39	800.07	1,460.72	1,423.93	36.79	39.710	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Rasmussen 16-29 - KMG WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 153-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	
11,900.00	7,435.00	7,548.48	7,413.30	75.31	33.05	93.45	5,495.66	1,250.06	1,473.97	1,402.73	71.23	20.692	
11,978.18	7,435.00	7,544.81	7,409.64	76.25	33.04	93.16	5,495.82	1,249.99	1,406.26	1,333.19	73.07	19.246 CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design												S32-T2N-R68W - Rasmussen 36-29 - KMG WELL - SURVEYS		Offset Site Error:		0.00 usft	
Survey Program:												15-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					
11,800.00	7,435.00	7,439.44	7,318.23	73.81	30.10	-87.67	4,791.11	-712.82	1,479.40	1,381.94	97.46	15.180					
11,900.00	7,435.00	7,443.14	7,321.92	75.31	30.11	-87.83	4,791.22	-712.90	1,430.78	1,330.59	100.18	14.282					
11,978.18	7,435.00	7,446.35	7,325.13	76.25	30.12	-87.98	4,791.32	-712.97	1,396.57	1,294.42	102.16	13.671	CC, ES, SF				

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Rasmussen 37-29 - KMG WELL - SURVEYS													Offset Site Error: 0.00 usft	
Survey Program: 15-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		
11,100.00	7,435.00	7,474.10	7,335.13	63.48	30.60	79.50	4,785.44	746.41	1,408.82	1,352.32	56.50	24.935		
11,200.00	7,435.00	7,476.24	7,337.27	64.94	30.61	80.14	4,785.48	746.51	1,309.82	1,253.20	56.62	23.135		
11,300.00	7,435.00	7,478.35	7,339.37	66.40	30.62	80.76	4,785.53	746.60	1,210.98	1,154.20	56.78	21.328		
11,400.00	7,435.00	7,480.42	7,341.44	67.87	30.62	81.38	4,785.57	746.69	1,112.34	1,055.33	57.01	19.513		
11,500.00	7,435.00	7,482.47	7,343.48	69.34	30.63	82.00	4,785.61	746.78	1,013.96	956.63	57.33	17.688		
11,600.00	7,435.00	7,484.48	7,345.50	70.83	30.64	82.60	4,785.65	746.87	915.93	858.14	57.79	15.850		
11,700.00	7,435.00	7,486.46	7,347.48	72.31	30.64	83.19	4,785.69	746.95	818.37	759.90	58.47	13.997		
11,800.00	7,435.00	7,488.42	7,349.43	73.81	30.65	83.78	4,785.73	747.03	721.47	661.98	59.49	12.127		
11,900.00	7,435.00	7,490.34	7,351.35	75.31	30.65	84.36	4,785.76	747.12	625.55	564.47	61.08	10.242		
11,978.18	7,435.00	7,491.83	7,352.84	76.25	30.66	84.81	4,785.79	747.18	551.57	488.09	63.47	8.690 CC, ES, SF		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 33-32 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 926-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	50.13	224.79	269.15	351.25				
100.00	100.00	80.68	80.68	0.14	0.14	50.13	224.74	269.09	350.60	350.32	0.28	1,265.371	
200.00	200.00	181.55	181.55	0.50	0.32	50.13	224.53	268.85	350.28	349.47	0.81	433.014	
300.00	300.00	282.41	282.41	0.85	0.50	50.14	224.15	268.42	349.71	348.37	1.34	260.816	
400.00	400.00	383.27	383.27	1.21	0.67	50.14	223.60	267.80	348.89	347.02	1.87	186.308	
500.00	500.00	484.13	484.11	1.57	0.85	50.15	222.89	267.00	347.83	345.43	2.40	144.661	
600.00	600.00	584.97	584.95	1.93	1.03	50.15	222.02	266.01	346.52	343.59	2.94	118.018	
700.00	700.00	685.82	685.78	2.29	1.21	50.16	220.98	264.84	344.97	341.50	3.47	99.477	
800.00	800.00	786.65	786.60	2.65	1.39	50.17	219.77	263.47	343.16	339.16	4.00	85.805	
900.00	899.98	887.45	887.38	2.99	1.56	-87.55	218.40	261.93	341.03	336.52	4.52	75.523	
1,000.00	999.84	985.43	985.33	3.33	1.73	-88.57	217.59	259.96	338.80	333.78	5.02	67.496	
1,062.52	1,062.15	1,042.11	1,041.98	3.54	1.83	-89.67	218.60	258.28	338.09	332.75	5.33	63.378 CC, ES	
1,100.00	1,099.45	1,074.32	1,074.16	3.67	1.89	-90.43	219.77	257.55	338.39	332.87	5.52	61.286	
1,163.41	1,162.43	1,129.17	1,128.92	3.89	1.98	-91.92	222.80	256.77	340.34	334.49	5.85	58.170	
1,200.00	1,198.73	1,160.95	1,160.60	4.02	2.03	-92.91	225.19	256.43	342.24	336.20	6.04	56.656	
1,300.00	1,297.93	1,248.49	1,247.71	4.39	2.18	-95.76	233.86	256.05	350.27	343.71	6.57	53.344	
1,400.00	1,397.13	1,338.83	1,337.34	4.76	2.36	-98.69	245.10	256.45	361.86	354.75	7.11	50.891	
1,500.00	1,496.32	1,425.97	1,423.45	5.13	2.56	-101.65	258.50	256.32	376.59	368.94	7.65	49.236	
1,600.00	1,595.52	1,516.86	1,512.83	5.51	2.80	-104.71	274.95	256.21	394.74	386.54	8.20	48.167	
1,700.00	1,694.71	1,603.57	1,597.77	5.90	3.06	-107.60	292.35	255.35	415.40	406.67	8.73	47.604	
1,800.00	1,793.91	1,689.23	1,681.08	6.29	3.36	-110.48	312.18	253.60	439.48	430.23	9.24	47.543	
1,900.00	1,893.11	1,779.11	1,768.07	6.68	3.70	-113.36	334.66	251.17	466.20	456.43	9.77	47.718	
2,000.00	1,992.30	1,862.97	1,848.94	7.07	4.06	-115.87	356.67	248.48	495.06	484.81	10.25	48.275	
2,100.00	2,091.50	1,950.55	1,932.91	7.46	4.45	-118.34	381.38	245.29	526.59	515.84	10.75	48.993	
2,200.00	2,190.70	2,039.74	2,018.17	7.86	4.88	-120.70	407.20	241.09	559.51	548.26	11.25	49.731	
2,300.00	2,289.89	2,120.04	2,094.44	8.25	5.31	-122.83	431.64	235.44	594.29	582.59	11.69	50.834	
2,400.00	2,389.09	2,206.88	2,176.39	8.65	5.78	-124.99	459.61	228.74	631.47	619.31	12.16	51.947	
2,500.00	2,488.29	2,294.16	2,258.93	9.05	6.25	-126.79	487.50	223.66	669.40	656.79	12.61	53.078	
2,600.00	2,587.48	2,386.59	2,346.34	9.45	6.76	-128.38	517.25	219.58	708.26	695.15	13.11	54.036	
2,700.00	2,686.68	2,478.34	2,433.15	9.85	7.27	-129.91	546.47	214.15	747.10	733.50	13.59	54.960	
2,800.00	2,785.88	2,566.90	2,516.91	10.25	7.77	-131.26	574.75	208.79	786.42	772.36	14.06	55.946	
2,900.00	2,885.07	2,651.49	2,596.76	10.65	8.26	-132.45	602.11	203.43	826.50	812.01	14.49	57.031	
3,000.00	2,984.27	2,732.69	2,673.19	11.05	8.75	-133.51	629.05	198.21	867.68	852.78	14.90	58.229	
3,100.00	3,083.47	2,826.57	2,761.38	11.45	9.31	-134.62	660.65	192.27	909.62	894.21	15.40	59.069	
3,200.00	3,182.66	2,920.81	2,850.14	11.85	9.86	-135.66	691.68	185.85	951.08	935.18	15.90	59.813	
3,300.00	3,281.86	3,024.55	2,948.13	12.25	10.46	-136.71	725.01	178.75	992.03	975.56	16.47	60.249	
3,400.00	3,381.05	3,118.00	3,036.65	12.66	10.99	-137.58	754.24	172.26	1,032.36	1,015.40	16.96	60.873	
3,500.00	3,480.25	3,212.43	3,126.18	13.06	11.53	-138.37	783.58	166.03	1,072.65	1,055.19	17.46	61.437	
3,600.00	3,579.45	3,306.07	3,243.96	13.46	12.19	-139.32	820.35	158.08	1,111.93	1,093.79	18.14	61.286	
3,700.00	3,678.64	3,451.43	3,354.91	13.87	12.76	-140.11	851.20	151.23	1,148.25	1,129.49	18.76	61.193	
3,800.00	3,777.84	3,568.07	3,467.67	14.27	13.30	-140.81	880.43	145.35	1,183.05	1,163.66	19.39	61.016	
3,900.00	3,877.04	3,667.48	3,564.08	14.67	13.75	-141.33	904.24	141.08	1,216.82	1,196.91	19.92	61.099	
4,000.00	3,976.23	3,758.15	3,652.08	15.08	14.17	-141.74	925.90	138.14	1,250.52	1,230.12	20.40	61.312	
4,100.00	4,075.43	3,841.71	3,733.06	15.48	14.56	-142.06	946.41	135.98	1,284.83	1,263.99	20.84	61.656	
4,200.00	4,174.63	3,924.01	3,812.63	15.89	14.95	-142.35	967.35	134.27	1,319.99	1,298.71	21.28	62.044	
4,300.00	4,273.82	4,003.88	3,889.69	16.29	15.35	-142.60	988.30	132.73	1,355.93	1,334.23	21.70	62.489	
4,400.00	4,373.02	4,068.00	3,951.33	16.70	15.68	-142.81	1,005.88	131.06	1,393.21	1,371.18	22.03	63.249	
4,500.00	4,472.22	4,134.74	4,015.12	17.10	16.05	-143.02	1,025.40	129.14	1,432.27	1,409.91	22.37	64.038	
4,600.00	4,571.41	4,216.98	4,093.28	17.51	16.52	-143.27	1,050.87	126.79	1,472.90	1,450.10	22.80	64.592	
7,892.48	7,435.00	7,587.86	7,404.26	28.09	27.10	-88.98	1,560.75	25.75	1,491.04	1,450.13	40.90	36.453	
7,900.00	7,435.00	7,587.93	7,404.33	28.12	27.10	-88.99	1,560.75	25.75	1,484.16	1,443.22	40.93	36.258	
8,000.00	7,435.00	7,588.83	7,405.23	28.50	27.10	-89.07	1,560.76	25.75	1,393.37	1,351.99	41.38	33.672	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 33-32 - CPR WELL - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 926-Geolink MWD													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)						
8,100.00	7,435.00	7,589.73	7,406.13	28.99	27.10	-89.16	1,560.77	25.76	1,303.93	1,261.98	41.95	31.084		
8,200.00	7,435.00	7,590.64	7,407.03	29.57	27.10	-89.24	1,560.78	25.76	1,216.14	1,173.47	42.67	28.502		
8,300.00	7,435.00	7,591.54	7,407.94	30.22	27.10	-89.33	1,560.79	25.76	1,130.37	1,086.79	43.58	25.938		
8,400.00	7,435.00	7,592.45	7,408.85	30.94	27.10	-89.42	1,560.80	25.77	1,047.14	1,002.41	44.73	23.409		
8,500.00	7,435.00	7,593.37	7,409.76	31.72	27.10	-89.50	1,560.80	25.77	967.08	920.90	46.18	20.941		
8,600.00	7,435.00	7,594.28	7,410.68	32.56	27.10	-89.59	1,560.81	25.77	891.07	843.08	47.99	18.569		
8,700.00	7,435.00	7,595.20	7,411.60	33.44	27.10	-89.68	1,560.82	25.78	820.21	770.01	50.20	16.340		
8,800.00	7,435.00	7,596.12	7,412.52	34.38	27.10	-89.76	1,560.83	25.78	755.97	703.14	52.83	14.309		
8,900.00	7,435.00	7,597.04	7,413.44	35.36	27.11	-89.85	1,560.84	25.78	700.17	644.33	55.84	12.539		
9,000.00	7,435.00	7,597.97	7,414.37	36.38	27.11	-89.94	1,560.85	25.78	654.96	595.92	59.04	11.093		
9,100.00	7,435.00	7,598.90	7,415.30	37.43	27.11	-90.03	1,560.86	25.79	622.67	560.54	62.12	10.023		
9,200.00	7,435.00	7,599.83	7,416.23	38.52	27.11	-90.12	1,560.86	25.79	605.35	540.71	64.64	9.365		
9,256.32	7,435.00	7,600.36	7,416.76	39.16	27.11	-90.17	1,560.87	25.79	602.73	537.07	65.66	9.180		
9,300.00	7,435.00	7,600.77	7,417.16	39.64	27.11	-90.21	1,560.87	25.79	604.31	538.11	66.20	9.129 SF		
9,400.00	7,435.00	7,601.71	7,418.10	40.79	27.11	-90.30	1,560.88	25.80	619.61	552.99	66.63	9.300		
9,500.00	7,435.00	7,602.65	7,419.04	41.97	27.11	-90.39	1,560.89	25.80	650.12	584.08	66.04	9.845		
9,600.00	7,435.00	7,603.59	7,419.99	43.17	27.11	-90.48	1,560.90	25.80	693.82	629.09	64.72	10.720		
9,700.00	7,435.00	7,604.54	7,420.94	44.39	27.11	-90.57	1,560.91	25.81	748.41	685.38	63.03	11.874		
9,800.00	7,435.00	7,605.49	7,421.89	45.64	27.11	-90.66	1,560.92	25.81	811.69	750.48	61.21	13.260		
9,900.00	7,435.00	7,606.44	7,422.84	46.90	27.11	-90.75	1,560.93	25.81	881.80	822.36	59.44	14.835		
9,915.75	7,435.00	7,606.59	7,422.99	47.10	27.11	-90.76	1,560.93	25.81	893.36	834.19	59.17	15.098		
10,000.00	7,435.00	7,607.40	7,423.79	48.18	27.12	-90.81	1,560.93	25.81	956.44	898.67	57.77	16.555		
10,100.00	7,435.00	7,608.34	7,424.74	49.50	27.12	-90.86	1,560.94	25.82	1,033.29	977.08	56.22	18.380		
10,120.42	7,435.00	7,608.53	7,424.93	49.77	27.12	-90.87	1,560.95	25.82	1,049.20	993.29	55.91	18.765		
10,200.00	7,435.00	7,609.28	7,425.67	50.84	27.12	-90.93	1,560.95	25.82	1,112.44	1,057.65	54.79	20.303		
10,300.00	7,435.00	7,610.22	7,426.62	52.20	27.12	-91.02	1,560.96	25.82	1,194.69	1,141.15	53.53	22.317		
10,400.00	7,435.00	7,611.17	7,427.56	53.57	27.12	-91.10	1,560.97	25.83	1,279.46	1,227.03	52.43	24.405		
10,500.00	7,435.00	7,612.12	7,428.51	54.95	27.12	-91.18	1,560.98	25.83	1,366.29	1,314.84	51.46	26.552		
10,600.00	7,435.00	7,613.07	7,429.46	56.34	27.12	-91.26	1,560.99	25.83	1,454.82	1,404.21	50.61	28.746		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 34-32 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 103-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor	
0.00	0.00	0.00	0.00	0.00	0.00	51.09	224.45	278.11	357.94				
100.00	100.00	78.40	78.40	0.14	0.12	51.11	224.47	278.31	357.56	357.30	0.26	1,388.438	
200.00	200.00	177.72	177.72	0.50	0.28	51.19	224.44	279.08	358.14	357.36	0.78	457.782	
300.00	300.00	279.15	279.14	0.85	0.46	51.34	224.05	280.02	358.62	357.31	1.32	272.231	
400.00	400.00	380.13	380.11	1.21	0.64	51.50	223.29	280.74	358.71	356.86	1.85	193.600	
500.00	500.00	480.07	480.05	1.57	0.81	51.66	222.51	281.31	358.68	356.29	2.39	150.300	
508.22	508.22	488.23	488.21	1.60	0.83	51.67	222.46	281.35	358.68	356.24	2.43	147.595	
600.00	600.00	579.57	579.54	1.93	0.99	51.78	221.98	281.84	358.76	355.84	2.92	122.909	
700.00	700.00	680.02	680.00	2.29	1.16	51.86	221.57	282.22	358.80	355.35	3.45	103.918	
735.00	735.00	715.01	714.99	2.41	1.23	51.88	221.47	282.29	358.80	355.16	3.64	98.594	
800.00	800.00	780.01	779.99	2.65	1.34	51.90	221.37	282.37	358.80	354.81	3.99	90.027	
900.00	899.98	880.48	880.46	2.99	1.51	-85.77	221.32	282.34	358.62	354.11	4.50	79.630	
1,000.00	999.84	981.21	981.18	3.33	1.69	-86.68	221.46	281.92	358.03	353.02	5.01	71.421	
1,100.00	1,099.45	1,081.26	1,081.23	3.67	1.86	-88.14	221.37	281.38	357.16	351.63	5.53	64.583	
1,163.41	1,162.43	1,144.66	1,144.63	3.89	1.97	-89.38	221.40	280.90	356.66	350.79	5.86	60.822	
1,200.00	1,198.73	1,181.31	1,181.28	4.02	2.04	-90.17	221.45	280.52	356.39	350.33	6.06	58.823	
1,279.25	1,277.34	1,258.84	1,258.81	4.31	2.17	-91.88	221.72	279.62	356.09	349.61	6.48	54.937 CC	
1,300.00	1,297.93	1,279.00	1,278.96	4.39	2.21	-92.32	221.83	279.41	356.11	349.52	6.59	54.015 ES	
1,400.00	1,397.13	1,377.69	1,377.64	4.76	2.38	-94.52	222.50	278.40	356.66	349.52	7.14	49.982	
1,500.00	1,496.32	1,477.47	1,477.41	5.13	2.55	-96.78	223.39	277.10	357.71	350.02	7.69	46.541	
1,600.00	1,595.52	1,577.92	1,577.84	5.51	2.73	-99.08	224.17	275.38	358.98	350.74	8.24	43.560	
1,700.00	1,694.71	1,675.76	1,675.67	5.90	2.90	-101.32	224.80	273.53	360.60	351.81	8.79	41.006	
1,800.00	1,793.91	1,772.55	1,772.44	6.29	3.07	-103.48	225.89	272.22	363.49	354.14	9.35	38.891	
1,900.00	1,893.11	1,870.08	1,869.95	6.68	3.24	-105.63	227.36	271.05	367.31	357.41	9.90	37.099	
2,000.00	1,992.30	1,969.16	1,969.01	7.07	3.42	-107.79	229.14	269.83	371.91	361.45	10.46	35.562	
2,100.00	2,091.50	2,071.13	2,070.97	7.46	3.59	-109.86	230.24	268.95	376.57	365.55	11.02	34.167	
2,200.00	2,190.70	2,173.00	2,172.84	7.86	3.77	-111.74	230.16	268.51	380.83	369.25	11.58	32.879	
2,300.00	2,289.89	2,272.63	2,272.46	8.25	3.95	-113.48	229.57	268.25	385.08	372.94	12.14	31.721	
2,400.00	2,389.09	2,372.77	2,372.60	8.65	4.12	-115.22	229.00	267.82	389.63	376.93	12.70	30.688	
2,500.00	2,488.29	2,477.35	2,477.17	9.05	4.30	-116.95	227.57	267.30	393.77	380.51	13.26	29.693	
2,600.00	2,587.48	2,580.63	2,580.38	9.45	4.49	-118.93	225.49	264.34	396.86	383.04	13.82	28.710	
2,700.00	2,686.68	2,690.92	2,690.44	9.85	4.69	-121.35	221.97	258.26	398.53	384.14	14.39	27.692	
2,800.00	2,785.88	2,796.07	2,795.27	10.25	4.88	-123.62	216.69	252.03	398.94	383.99	14.95	26.685	
2,900.00	2,885.07	2,899.08	2,897.74	10.65	5.09	-126.04	209.68	244.18	397.80	382.29	15.51	25.653	
3,000.00	2,984.27	3,002.60	3,000.64	11.05	5.30	-128.61	202.64	235.31	397.23	381.16	16.07	24.725	
3,100.00	3,083.47	3,113.99	3,110.83	11.45	5.55	-131.77	192.46	222.73	394.76	378.13	16.63	23.736	
3,200.00	3,182.66	3,210.02	3,205.53	11.85	5.78	-134.74	182.41	210.32	391.88	374.67	17.21	22.775	
3,282.35	3,264.35	3,286.00	3,280.56	12.18	5.96	-137.06	175.09	200.86	391.04	373.36	17.68	22.115	
3,300.00	3,281.86	3,302.30	3,296.66	12.25	6.00	-137.56	173.63	198.83	391.08	373.30	17.79	21.989	
3,400.00	3,381.05	3,398.59	3,391.72	12.66	6.26	-140.66	165.67	185.74	392.66	374.28	18.38	21.364	
3,500.00	3,480.25	3,501.72	3,492.96	13.06	6.55	-144.37	155.57	168.86	394.25	375.24	19.01	20.744	
3,600.00	3,579.45	3,599.79	3,589.03	13.46	6.85	-148.00	145.42	151.95	397.02	377.38	19.64	20.211	
3,700.00	3,678.64	3,707.18	3,693.83	13.87	7.20	-152.10	132.64	132.36	400.20	379.88	20.32	19.694	
3,800.00	3,777.84	3,809.45	3,793.35	14.27	7.55	-156.00	117.82	114.06	402.60	381.58	21.02	19.157	
3,900.00	3,877.04	3,911.66	3,892.57	14.67	7.92	-159.91	101.42	95.78	405.34	383.62	21.73	18.655	
4,000.00	3,976.23	4,002.53	3,980.60	15.08	8.27	-163.44	86.64	78.80	410.01	387.58	22.43	18.278	
4,100.00	4,075.43	4,094.84	4,070.08	15.48	8.62	-166.94	72.56	60.99	417.64	394.51	23.13	18.055	
4,200.00	4,174.63	4,191.95	4,164.39	15.89	8.99	-170.39	58.37	42.70	427.29	403.45	23.84	17.921	
4,300.00	4,273.82	4,288.82	4,258.90	16.29	9.34	-173.43	44.85	26.36	437.88	413.34	24.54	17.845	
4,400.00	4,373.02	4,388.61	4,356.61	16.70	9.69	-176.21	32.10	10.61	449.92	424.68	25.23	17.829	
4,500.00	4,472.22	4,489.51	4,455.66	17.10	10.03	-178.71	18.99	-3.44	461.57	435.64	25.93	17.797	
4,600.00	4,571.41	4,586.73	4,551.04	17.51	10.38	178.96	6.01	-17.11	473.87	447.25	26.62	17.802	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 34-32 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 103-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
4,700.00	4,670.61	4,685.69	4,648.24	17.91	10.70	176.78	-6.94	-30.44	486.71	459.42	27.29	17.836	
4,800.00	4,769.81	4,782.82	4,744.08	18.32	10.99	175.04	-17.80	-41.83	500.18	472.27	27.92	17.916	
4,900.00	4,869.00	4,883.43	4,843.90	18.72	11.25	173.76	-26.38	-50.98	513.86	485.33	28.53	18.011	
5,000.00	4,968.20	4,982.51	4,942.55	19.13	11.47	172.91	-32.64	-57.56	527.33	498.22	29.11	18.115	
5,100.00	5,067.40	5,080.68	5,040.47	19.53	11.67	172.33	-37.16	-63.03	541.16	511.49	29.66	18.243	
5,200.00	5,166.59	5,177.65	5,137.32	19.94	11.85	172.01	-39.98	-67.05	555.02	524.83	30.19	18.384	
5,300.00	5,265.79	5,276.79	5,236.39	20.34	12.01	171.89	-41.05	-70.21	569.32	538.60	30.71	18.536	
5,400.00	5,364.98	5,380.55	5,340.14	20.75	12.15	171.98	-41.00	-71.88	583.11	551.87	31.24	18.664	
5,500.00	5,464.18	5,474.59	5,434.17	21.15	12.27	172.18	-39.91	-72.51	596.89	565.18	31.71	18.822	
5,600.00	5,563.38	5,571.01	5,530.57	21.56	12.39	172.44	-37.89	-73.32	611.40	579.21	32.19	18.993	
5,700.00	5,662.57	5,675.56	5,635.09	21.97	12.53	172.72	-35.74	-73.76	625.57	592.86	32.71	19.123	
5,800.00	5,761.77	5,776.03	5,735.55	22.37	12.66	172.98	-34.24	-73.68	639.03	605.81	33.22	19.239	
5,900.00	5,860.97	5,871.79	5,831.29	22.78	12.78	173.20	-32.69	-73.91	652.80	619.11	33.70	19.373	
6,000.00	5,960.16	5,971.41	5,930.90	23.18	12.93	173.39	-31.14	-74.59	666.89	632.68	34.21	19.493	
6,100.00	6,059.36	6,073.17	6,032.66	23.59	13.09	173.49	-30.64	-75.75	680.64	645.89	34.74	19.590	
6,200.00	6,158.56	6,168.66	6,128.13	24.00	13.22	173.55	-30.33	-77.02	694.41	659.18	35.23	19.711	
6,300.00	6,257.75	6,264.26	6,223.72	24.40	13.36	173.68	-29.05	-78.16	708.75	673.04	35.72	19.844	
6,400.00	6,356.95	6,365.87	6,325.31	24.81	13.51	173.82	-27.63	-79.34	723.11	686.86	36.24	19.952	
6,500.00	6,456.15	6,465.29	6,424.72	25.21	13.65	173.91	-26.74	-80.52	737.16	700.40	36.75	20.056	
6,600.00	6,555.34	6,560.89	6,520.30	25.62	13.79	174.02	-25.51	-81.70	751.50	714.25	37.24	20.178	
6,702.76	6,657.28	6,662.83	6,622.22	26.04	13.93	174.18	-23.58	-82.83	766.56	728.80	37.76	20.303	
6,750.00	6,704.24	6,711.17	6,670.55	26.22	13.99	-155.46	-22.51	-83.09	772.39	734.40	37.99	20.330	
6,800.00	6,754.03	6,762.53	6,721.89	26.40	14.06	-113.21	-21.26	-83.12	776.31	738.08	38.24	20.303	
6,850.00	6,803.66	6,810.89	6,770.24	26.56	14.12	-88.24	-20.00	-83.03	777.98	739.53	38.46	20.231	
6,900.00	6,852.89	6,857.67	6,817.00	26.70	14.19	-76.83	-18.73	-83.10	777.64	738.98	38.66	20.115	
6,950.00	6,901.49	6,903.91	6,863.22	26.83	14.25	-71.30	-17.43	-83.33	775.36	736.51	38.85	19.956	
7,000.00	6,949.20	6,953.00	6,912.29	26.95	14.32	-68.65	-16.00	-83.77	771.29	732.23	39.06	19.747	
7,050.00	6,995.81	6,995.75	6,955.02	27.05	14.38	-67.50	-14.71	-84.22	765.48	726.26	39.22	19.517	
7,100.00	7,041.08	7,041.10	7,000.34	27.15	14.44	-67.48	-13.27	-84.68	758.09	718.69	39.40	19.242	
7,150.00	7,084.79	7,085.07	7,044.29	27.23	14.50	-68.21	-11.81	-85.12	749.33	709.77	39.56	18.940	
7,200.00	7,126.74	7,127.52	7,086.71	27.31	14.56	-69.51	-10.33	-85.53	739.47	699.75	39.72	18.617	
7,250.00	7,166.71	7,172.29	7,131.45	27.37	14.63	-71.45	-8.92	-85.91	728.70	688.80	39.90	18.263	
7,300.00	7,204.52	7,214.32	7,173.47	27.42	14.69	-73.75	-7.89	-86.21	717.30	677.23	40.07	17.902	
7,350.00	7,239.97	7,253.39	7,212.53	27.47	14.75	-76.30	-7.21	-86.42	705.71	665.49	40.22	17.545	
7,400.00	7,272.89	7,289.30	7,248.44	27.51	14.80	-78.95	-6.79	-86.57	694.44	654.07	40.37	17.203	
7,450.00	7,303.14	7,321.96	7,281.10	27.54	14.85	-81.60	-6.55	-86.64	683.98	643.49	40.50	16.889	
7,500.00	7,330.54	7,351.80	7,310.94	27.57	14.88	-84.16	-6.26	-86.58	674.84	634.22	40.62	16.612	
7,550.00	7,354.98	7,378.76	7,337.89	27.60	14.92	-86.52	-5.93	-86.43	667.48	626.74	40.74	16.383	
7,600.00	7,376.34	7,402.66	7,361.79	27.63	14.95	-88.60	-5.57	-86.21	662.35	621.49	40.86	16.211	
7,650.00	7,394.51	7,423.36	7,382.48	27.66	14.97	-90.31	-5.21	-85.95	659.85	618.88	40.96	16.108	
7,667.65	7,400.14	7,429.87	7,389.00	27.68	14.98	-90.81	-5.09	-85.86	659.66	618.66	41.00	16.089	
7,700.00	7,409.39	7,440.70	7,399.82	27.71	14.99	-91.58	-4.88	-85.70	660.31	619.25	41.06	16.081 SF	
7,750.00	7,420.93	7,454.55	7,413.66	27.77	15.01	-92.36	-4.60	-85.46	663.98	622.84	41.15	16.136	
7,800.00	7,429.06	7,464.78	7,423.89	27.86	15.02	-92.61	-4.38	-85.27	671.00	629.78	41.22	16.278	
7,850.00	7,433.75	7,471.29	7,430.40	27.97	15.03	-92.29	-4.23	-85.14	681.37	640.09	41.28	16.508	
7,892.48	7,435.00	7,473.81	7,432.92	28.09	15.04	-91.55	-4.17	-85.09	692.74	651.43	41.31	16.769	
7,900.00	7,435.00	7,474.02	7,433.12	28.12	15.04	-91.57	-4.17	-85.09	694.99	653.68	41.31	16.822	
8,000.00	7,435.00	7,476.71	7,435.82	28.50	15.04	-91.80	-4.11	-85.03	731.65	690.27	41.38	17.681	
8,100.00	7,435.00	7,479.18	7,438.28	28.99	15.04	-92.02	-4.05	-84.98	779.49	738.05	41.44	18.809	
8,200.00	7,435.00	7,481.63	7,440.74	29.57	15.04	-92.23	-3.99	-84.93	836.59	795.09	41.50	20.158	
8,300.00	7,435.00	7,484.13	7,443.23	30.22	15.05	-92.44	-3.93	-84.88	901.19	859.64	41.55	21.688	
8,400.00	7,435.00	7,486.65	7,445.75	30.94	15.05	-92.66	-3.87	-84.82	971.80	930.20	41.60	23.363	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 34-32 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 103-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,500.00	7,435.00	7,489.20	7,448.30	31.72	15.05	-92.88	-3.81	-84.77	1,047.20	1,005.57	41.63	25.153	
8,600.00	7,435.00	7,491.79	7,450.89	32.56	15.06	-93.11	-3.75	-84.72	1,126.44	1,084.77	41.67	27.034	
8,700.00	7,435.00	7,494.41	7,453.51	33.44	15.06	-93.33	-3.68	-84.66	1,208.75	1,167.05	41.70	28.990	
8,800.00	7,435.00	7,497.07	7,456.16	34.38	15.06	-93.56	-3.62	-84.61	1,293.55	1,251.83	41.72	31.004	
8,900.00	7,435.00	7,499.76	7,458.85	35.36	15.07	-93.80	-3.55	-84.55	1,380.38	1,338.64	41.75	33.066	
9,000.00	7,435.00	7,502.49	7,461.58	36.38	15.07	-94.03	-3.48	-84.50	1,468.89	1,427.12	41.77	35.168	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 44-32 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 134-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	52.90	212.04	280.34	352.13				
100.00	100.00	79.55	79.55	0.14	0.13	52.94	211.78	280.46	351.44	351.18	0.26	1,333.435	
163.17	163.17	142.17	142.16	0.36	0.22	53.04	211.22	280.73	351.31	350.73	0.59	595.971	CC, ES
200.00	200.00	175.21	175.21	0.50	0.28	53.09	211.09	281.05	351.51	350.73	0.78	449.017	
300.00	300.00	264.43	264.39	0.85	0.44	53.13	212.28	283.01	354.07	352.75	1.32	267.277	
400.00	400.00	356.22	356.05	1.21	0.62	53.17	215.04	287.13	359.47	357.61	1.86	193.039	
500.00	500.00	446.46	446.02	1.57	0.82	53.30	218.48	293.08	367.04	364.64	2.40	152.931	
600.00	600.00	537.52	536.59	1.93	1.04	53.54	222.79	301.49	377.26	374.33	2.93	128.707	
700.00	700.00	629.32	627.67	2.29	1.29	53.87	227.63	311.83	389.47	386.01	3.46	112.670	
800.00	800.00	718.65	716.03	2.65	1.57	54.29	232.81	323.87	403.80	399.81	3.98	101.403	
900.00	899.98	810.91	806.92	2.99	1.88	-82.37	237.97	338.85	420.06	415.57	4.49	93.556	
1,000.00	999.84	914.48	908.80	3.33	2.23	-81.83	242.09	357.00	436.03	431.02	5.00	87.164	
1,100.00	1,099.45	1,013.16	1,005.83	3.67	2.58	-81.51	243.93	374.90	450.82	445.28	5.54	81.335	
1,163.41	1,162.43	1,067.45	1,058.99	3.89	2.80	-81.34	244.17	385.91	460.56	454.66	5.90	78.102	
1,200.00	1,198.73	1,104.00	1,094.59	4.02	2.95	-81.32	244.13	394.16	466.71	460.60	6.11	76.352	
1,300.00	1,297.93	1,185.20	1,173.28	4.39	3.33	-81.17	244.09	414.15	485.13	478.45	6.68	72.623	
1,400.00	1,397.13	1,274.22	1,259.06	4.76	3.77	-80.91	244.32	437.98	505.64	498.36	7.28	69.475	
1,500.00	1,496.32	1,370.28	1,351.26	5.13	4.27	-80.57	244.49	464.94	527.21	519.30	7.91	66.665	
1,600.00	1,595.52	1,469.84	1,446.62	5.51	4.79	-80.12	243.75	493.51	548.85	540.28	8.57	64.032	
1,700.00	1,694.71	1,572.67	1,545.35	5.90	5.31	-79.67	242.12	522.24	569.40	560.15	9.25	61.586	
1,800.00	1,793.91	1,664.23	1,633.34	6.29	5.79	-79.41	241.97	547.52	590.47	580.59	9.87	59.798	
1,900.00	1,893.11	1,757.30	1,722.60	6.68	6.29	-79.17	242.21	573.89	612.38	601.87	10.52	58.239	
2,000.00	1,992.30	1,857.24	1,818.25	7.07	6.83	-78.87	242.19	602.85	634.73	623.53	11.20	56.674	
2,100.00	2,091.50	1,963.06	1,919.57	7.46	7.40	-78.45	240.31	633.30	656.01	644.09	11.92	55.053	
2,200.00	2,190.70	2,063.15	2,015.67	7.86	7.92	-78.10	238.40	661.22	676.48	663.89	12.60	53.698	
2,300.00	2,289.89	2,164.24	2,112.88	8.25	8.44	-77.81	236.57	688.94	696.61	683.32	13.29	52.400	
2,400.00	2,389.09	2,263.52	2,208.18	8.65	8.97	-77.43	233.63	716.59	716.57	702.58	13.99	51.238	
2,500.00	2,488.29	2,366.69	2,307.53	9.05	9.49	-77.14	231.07	744.29	735.90	721.21	14.68	50.113	
2,600.00	2,587.48	2,465.80	2,403.06	9.45	9.99	-76.89	228.61	770.54	754.93	739.56	15.37	49.110	
2,700.00	2,686.68	2,567.66	2,501.29	9.85	10.49	-76.64	225.86	797.38	773.75	757.69	16.06	48.176	
2,800.00	2,785.88	2,672.16	2,602.34	10.25	11.00	-76.46	223.44	823.88	791.89	775.12	16.77	47.208	
2,900.00	2,885.07	2,777.42	2,704.27	10.65	11.49	-76.28	220.47	849.98	809.30	791.83	17.48	46.304	
3,000.00	2,984.27	2,890.68	2,814.50	11.05	11.98	-76.20	217.93	875.89	825.29	807.07	18.22	45.302	
3,100.00	3,083.47	2,990.20	2,911.57	11.45	12.41	-76.14	215.16	897.65	840.13	821.24	18.89	44.474	
3,200.00	3,182.66	3,072.08	2,991.36	11.85	12.78	-76.14	213.82	915.95	856.00	836.52	19.48	43.940	
3,300.00	3,281.86	3,157.60	3,074.30	12.25	13.19	-76.13	213.30	936.80	874.07	853.98	20.08	43.526	
3,400.00	3,381.05	3,254.50	3,168.21	12.66	13.65	-76.14	213.25	960.67	892.67	871.93	20.75	43.029	
3,500.00	3,480.25	3,353.16	3,263.74	13.06	14.12	-76.10	212.65	985.34	911.33	889.91	21.42	42.542	
3,600.00	3,579.45	3,467.72	3,374.67	13.46	14.67	-75.98	210.33	1,013.79	929.19	906.99	22.20	41.860	
3,700.00	3,678.64	3,566.94	3,470.83	13.87	15.14	-75.83	207.07	1,038.04	946.08	923.20	22.88	41.350	
3,800.00	3,777.84	3,665.84	3,566.69	14.27	15.60	-75.67	203.60	1,062.10	962.77	939.22	23.55	40.874	
3,900.00	3,877.04	3,757.38	3,655.62	14.67	16.02	-75.65	202.30	1,083.82	979.92	955.74	24.18	40.521	
4,000.00	3,976.23	3,854.25	3,749.69	15.08	16.46	-75.67	201.99	1,106.89	997.67	972.83	24.84	40.164	
4,100.00	4,075.43	3,969.93	3,862.27	15.48	16.97	-75.73	201.63	1,133.47	1,014.71	989.10	25.61	39.621	
4,200.00	4,174.63	4,069.09	3,958.77	15.89	17.42	-75.67	199.06	1,156.14	1,030.54	1,004.24	26.30	39.189	
4,300.00	4,273.82	4,147.44	4,034.77	16.29	17.80	-75.59	196.90	1,175.05	1,047.42	1,020.55	26.87	38.986	
4,400.00	4,373.02	4,229.72	4,114.22	16.70	18.23	-75.49	194.97	1,196.36	1,066.06	1,038.60	27.46	38.825	
4,500.00	4,472.22	4,344.08	4,224.58	17.10	18.78	-75.35	192.42	1,226.25	1,085.02	1,056.80	28.22	38.451	
4,600.00	4,571.41	4,476.23	4,353.38	17.51	19.32	-75.40	191.10	1,255.73	1,101.02	1,071.97	29.05	37.904	
4,700.00	4,670.61	4,586.91	4,461.86	17.91	19.75	-75.55	190.97	1,277.65	1,115.30	1,085.53	29.77	37.463	
4,800.00	4,769.81	4,692.87	4,565.93	18.32	20.14	-75.73	191.06	1,297.58	1,128.81	1,098.35	30.46	37.055	
4,900.00	4,869.00	4,807.35	4,678.68	18.72	20.52	-76.03	192.51	1,317.32	1,141.55	1,110.37	31.18	36.606	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 44-32 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 134-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
5,000.00	4,968.20	4,939.28	4,809.18	19.13	20.90	-76.45	194.44	1,336.58	1,152.09	1,120.12	31.96	36.044	
5,100.00	5,067.40	5,071.21	4,940.20	19.53	21.21	-76.97	196.42	1,351.87	1,160.12	1,127.41	32.71	35.462	
5,200.00	5,166.59	5,208.58	5,077.15	19.94	21.44	-77.63	198.28	1,362.36	1,164.57	1,131.12	33.44	34.820	
5,300.00	5,265.79	5,331.35	5,199.76	20.34	21.60	-78.28	199.53	1,368.44	1,166.70	1,132.57	34.13	34.180	
5,400.00	5,364.98	5,446.31	5,314.65	20.75	21.73	-78.91	200.28	1,372.27	1,167.39	1,132.59	34.81	33.539	
5,500.00	5,464.18	5,550.50	5,418.82	21.15	21.84	-79.51	200.78	1,374.68	1,167.24	1,131.77	35.46	32.914	
5,600.00	5,563.38	5,652.23	5,520.52	21.56	21.94	-80.11	201.50	1,376.61	1,166.98	1,130.86	36.12	32.308	
5,700.00	5,662.57	5,754.94	5,623.22	21.97	22.04	-80.73	202.34	1,378.17	1,166.59	1,129.82	36.78	31.722	
5,800.00	5,761.77	5,860.11	5,728.38	22.37	22.13	-81.38	203.21	1,379.34	1,166.00	1,128.57	37.43	31.150	
5,900.00	5,860.97	5,969.01	5,837.28	22.78	22.22	-82.07	203.98	1,379.66	1,164.82	1,126.73	38.09	30.584	
6,000.00	5,960.16	6,066.84	5,935.10	23.18	22.30	-82.71	204.65	1,379.42	1,163.32	1,124.58	38.74	30.031	
6,100.00	6,059.36	6,161.73	6,029.99	23.59	22.38	-83.33	205.51	1,379.43	1,162.31	1,122.92	39.39	29.510	
6,200.00	6,158.56	6,259.93	6,128.18	24.00	22.46	-83.98	206.61	1,379.55	1,161.68	1,121.64	40.03	29.018	
6,300.00	6,257.75	6,358.56	6,226.80	24.40	22.55	-84.64	207.93	1,379.60	1,161.26	1,120.58	40.68	28.547	
6,400.00	6,356.95	6,458.62	6,326.85	24.81	22.62	-85.33	209.50	1,379.42	1,160.97	1,119.65	41.32	28.097	
6,500.00	6,456.15	6,557.13	6,425.35	25.21	22.70	-86.03	211.28	1,378.99	1,160.79	1,118.84	41.96	27.666	
6,508.78	6,464.86	6,565.61	6,433.83	25.25	22.71	-86.09	211.44	1,378.96	1,160.79	1,118.78	42.01	27.629	
6,600.00	6,555.34	6,653.72	6,521.91	25.62	22.79	-86.71	213.10	1,378.71	1,160.95	1,118.35	42.60	27.250	
6,702.76	6,657.28	6,755.27	6,623.45	26.04	22.88	-87.42	215.05	1,378.58	1,161.44	1,118.17	43.27	26.843	
6,750.00	6,704.24	6,802.72	6,670.88	26.22	22.92	-87.64	215.95	1,378.48	1,160.65	1,117.10	43.55	26.650	
6,800.00	6,754.03	6,853.07	6,721.23	26.40	22.96	-15.44	216.91	1,378.36	1,157.53	1,113.72	43.81	26.423	
6,850.00	6,803.66	6,907.87	6,776.02	26.56	23.01	10.06	217.81	1,378.19	1,151.97	1,107.94	44.03	26.163	
6,900.00	6,852.89	6,961.98	6,830.13	26.70	23.05	22.62	218.29	1,378.00	1,143.83	1,099.62	44.21	25.873	
6,950.00	6,901.49	7,008.66	6,876.81	26.83	23.09	29.89	218.67	1,377.83	1,133.39	1,089.05	44.35	25.558	
7,000.00	6,949.20	7,054.75	6,922.89	26.95	23.14	34.91	219.17	1,377.65	1,120.87	1,076.43	44.44	25.220	
7,050.00	6,995.81	7,100.16	6,968.30	27.05	23.18	38.93	219.67	1,377.55	1,106.34	1,061.84	44.50	24.860	
7,100.00	7,041.08	7,144.07	7,012.20	27.15	23.22	42.49	220.14	1,377.53	1,089.95	1,045.43	44.52	24.482	
7,150.00	7,084.79	7,186.25	7,054.38	27.23	23.26	45.88	220.71	1,377.51	1,071.87	1,027.38	44.49	24.090	
7,200.00	7,126.74	7,227.77	7,095.89	27.31	23.30	49.26	221.40	1,377.47	1,052.31	1,007.88	44.43	23.686	
7,250.00	7,166.71	7,269.42	7,137.54	27.37	23.33	52.78	222.15	1,377.37	1,031.40	987.09	44.32	23.274	
7,300.00	7,204.52	7,308.94	7,177.05	27.42	23.37	56.43	222.88	1,377.20	1,009.39	965.23	44.16	22.857	
7,350.00	7,239.97	7,346.22	7,214.32	27.47	23.40	60.22	223.56	1,377.00	986.56	942.60	43.96	22.442	
7,400.00	7,272.89	7,380.89	7,248.99	27.51	23.43	64.10	224.18	1,376.76	963.27	919.55	43.72	22.034	
7,450.00	7,303.14	7,411.94	7,280.03	27.54	23.45	67.97	224.73	1,376.54	939.87	896.44	43.44	21.637	
7,500.00	7,330.54	7,439.87	7,307.96	27.57	23.48	71.77	225.20	1,376.34	916.80	873.68	43.12	21.259	
7,550.00	7,354.98	7,464.85	7,332.94	27.60	23.50	75.42	225.62	1,376.18	894.46	851.68	42.79	20.905	
7,600.00	7,376.34	7,486.77	7,354.86	27.63	23.52	78.83	225.98	1,376.04	873.28	830.85	42.44	20.579	
7,650.00	7,394.51	7,505.52	7,373.60	27.66	23.54	81.91	226.28	1,375.93	853.70	811.61	42.09	20.284	
7,700.00	7,409.39	7,521.02	7,389.09	27.71	23.55	84.58	226.52	1,375.84	836.14	794.37	41.76	20.020	
7,750.00	7,420.93	7,533.18	7,401.26	27.77	23.56	86.80	226.71	1,375.78	821.00	779.51	41.49	19.788	
7,800.00	7,429.06	7,541.97	7,410.05	27.86	23.57	88.50	226.84	1,375.73	808.66	767.37	41.29	19.585	
7,850.00	7,433.75	7,547.35	7,415.42	27.97	23.58	89.67	226.93	1,375.70	799.41	758.22	41.19	19.409	
7,892.48	7,435.00	7,549.22	7,417.29	28.09	23.58	90.24	226.95	1,375.69	794.15	752.95	41.19	19.278	
7,900.00	7,435.00	7,549.33	7,417.40	28.12	23.58	90.25	226.96	1,375.69	793.47	752.27	41.20	19.257	
7,967.81	7,435.00	7,550.33	7,418.41	28.37	23.58	90.32	226.97	1,375.69	790.57	749.11	41.46	19.068	
8,000.00	7,435.00	7,550.81	7,418.88	28.50	23.58	90.35	226.98	1,375.68	791.22	749.56	41.66	18.993	
8,100.00	7,435.00	7,552.28	7,420.36	28.99	23.58	90.46	227.00	1,375.68	801.54	758.90	42.64	18.799	
8,200.00	7,435.00	7,553.75	7,421.83	29.57	23.58	90.57	227.02	1,375.67	823.95	779.98	43.97	18.738 SF	
8,300.00	7,435.00	7,555.22	7,423.29	30.22	23.58	90.67	227.05	1,375.66	857.51	812.05	45.46	18.864	
8,400.00	7,435.00	7,556.68	7,424.75	30.94	23.59	90.78	227.07	1,375.65	900.97	854.05	46.92	19.201	
8,500.00	7,435.00	7,558.14	7,426.21	31.72	23.59	90.89	227.09	1,375.65	952.98	904.71	48.27	19.744	
8,600.00	7,435.00	7,559.59	7,427.66	32.56	23.59	90.99	227.11	1,375.64	1,012.22	962.77	49.44	20.472	

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 44-32 - CPR WELL - SURVEYS												Offset Site Error:	0.00 usft
Survey Program: 134-Geolink MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,700.00	7,435.00	7,561.04	7,429.11	33.44	23.59	91.10	227.13	1,375.63	1,077.49	1,027.05	50.44	21.361	
8,800.00	7,435.00	7,564.00	7,432.07	34.38	23.59	91.31	227.18	1,375.62	1,147.78	1,096.50	51.27	22.385	
8,900.00	7,435.00	7,564.00	7,432.07	35.36	23.59	91.31	227.18	1,375.62	1,222.21	1,170.24	51.97	23.517	
9,000.00	7,435.00	7,564.00	7,432.07	36.38	23.59	91.31	227.18	1,375.62	1,300.07	1,247.52	52.55	24.740	
9,100.00	7,435.00	7,566.80	7,434.87	37.43	23.59	91.51	227.22	1,375.60	1,380.79	1,327.77	53.02	26.042	
9,200.00	7,435.00	7,568.23	7,436.30	38.52	23.60	91.62	227.24	1,375.60	1,463.89	1,410.47	53.42	27.406	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 4-4-32 - CPR WELL - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 60-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
9,500.00	7,435.00	7,442.99	7,392.76	41.97	39.90	-89.95	2,012.91	-831.37	1,485.29	1,404.72	80.57	18.435		
9,600.00	7,435.00	7,444.31	7,394.08	43.17	39.90	-90.00	2,012.93	-831.37	1,476.53	1,395.14	81.38	18.143		
9,679.79	7,435.00	7,445.36	7,395.12	44.15	39.91	-90.04	2,012.95	-831.37	1,474.37	1,392.43	81.94	17.993 CC, ES		
9,700.00	7,435.00	7,445.62	7,395.38	44.39	39.91	-90.05	2,012.95	-831.37	1,474.51	1,392.44	82.06	17.968		
9,800.00	7,435.00	7,446.90	7,396.67	45.64	39.91	-90.10	2,012.97	-831.36	1,479.26	1,396.66	82.60	17.909 SF		
9,900.00	7,435.00	7,448.17	7,397.93	46.90	39.92	-90.15	2,012.98	-831.36	1,490.72	1,407.73	82.99	17.964		
9,915.75	7,435.00	7,448.36	7,398.13	47.10	39.92	-90.16	2,012.99	-831.36	1,493.13	1,410.09	83.03	17.982		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 4-6-32 - CPR WELL - SURVEYS													Offset Site Error:	0.00 usft
Survey Program: 60-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		
7,892.48	7,435.00	7,437.00	7,386.14	28.09	38.71	-89.68	731.94	-809.57	1,498.85	1,437.61	61.24	24.477		
7,900.00	7,435.00	7,437.00	7,386.14	28.12	38.71	-89.68	731.94	-809.57	1,496.32	1,435.01	61.30	24.408		
8,000.00	7,435.00	7,437.00	7,386.14	28.50	38.71	-89.68	731.94	-809.57	1,465.92	1,403.66	62.26	23.546		
8,100.00	7,435.00	7,437.00	7,386.14	28.99	38.71	-89.68	731.94	-809.57	1,441.83	1,378.52	63.31	22.775		
8,200.00	7,435.00	7,446.37	7,395.51	29.57	38.73	-90.06	732.17	-809.52	1,424.34	1,359.85	64.49	22.087		
8,300.00	7,435.00	7,448.50	7,397.63	30.22	38.74	-90.15	732.22	-809.51	1,413.73	1,348.06	65.67	21.528		
8,400.00	7,435.00	7,450.64	7,399.78	30.94	38.74	-90.24	732.27	-809.49	1,410.16	1,343.30	66.86	21.092		
8,400.54	7,435.00	7,450.65	7,399.79	30.94	38.74	-90.24	732.27	-809.49	1,410.16	1,343.29	66.86	21.090 CC, ES		
8,500.00	7,435.00	7,452.81	7,401.94	31.72	38.75	-90.32	732.32	-809.48	1,413.66	1,345.63	68.02	20.782		
8,600.00	7,435.00	7,454.99	7,404.13	32.56	38.75	-90.41	732.38	-809.47	1,424.18	1,355.06	69.13	20.602		
8,700.00	7,435.00	7,457.20	7,406.33	33.44	38.76	-90.50	732.43	-809.46	1,441.58	1,371.43	70.15	20.550 SF		
8,800.00	7,435.00	7,459.43	7,408.56	34.38	38.76	-90.59	732.49	-809.45	1,465.61	1,394.54	71.07	20.622		
8,900.00	7,435.00	7,461.67	7,410.81	35.36	38.76	-90.68	732.54	-809.45	1,495.95	1,424.07	71.87	20.814		

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 8-8-32 - CPR WELL - SURVEYS													Offset Site Error: 0.00 usft	
Survey Program: 70-Geolink MWD													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	56.49	195.29	294.89	354.32					
100.00	100.00	75.94	75.94	0.14	0.11	56.50	195.41	295.23	354.06	353.80	0.25	1,395.764	CC, ES	
200.00	200.00	173.10	173.09	0.50	0.28	56.57	195.61	296.36	355.15	354.37	0.78	453.978		
300.00	300.00	270.81	270.74	0.85	0.46	56.97	194.59	299.35	357.13	355.82	1.32	270.870		
400.00	400.00	363.49	363.23	1.21	0.65	57.80	191.90	304.72	360.46	358.58	1.87	192.308		
500.00	500.00	458.20	457.47	1.57	0.88	59.04	187.88	313.13	365.80	363.35	2.45	149.348		
600.00	600.00	553.04	551.55	1.93	1.15	60.65	181.95	323.51	372.17	369.13	3.05	122.100		
700.00	700.00	643.87	641.22	2.29	1.45	62.51	174.92	336.15	380.82	377.15	3.67	103.662		
800.00	800.00	733.81	729.41	2.65	1.79	64.67	166.38	351.56	392.09	387.78	4.31	90.926		
900.00	899.98	822.08	815.55	2.99	2.15	-70.53	158.01	368.91	405.74	400.81	4.93	82.317		
1,000.00	999.84	913.55	904.45	3.33	2.56	-68.73	149.67	388.76	420.70	415.15	5.54	75.917		
1,100.00	1,099.45	1,004.67	992.42	3.67	3.02	-67.14	139.85	410.34	436.00	429.81	6.19	70.454		
1,163.41	1,162.43	1,062.00	1,047.24	3.89	3.34	-66.17	132.60	425.50	446.39	439.78	6.61	67.499		
1,200.00	1,198.73	1,089.32	1,073.18	4.02	3.51	-65.79	128.91	433.21	452.78	445.94	6.85	66.130		
1,300.00	1,297.93	1,172.76	1,151.78	4.39	4.05	-64.57	117.25	458.67	472.59	465.08	7.51	62.932		
1,400.00	1,397.13	1,258.21	1,231.35	4.76	4.64	-63.25	104.71	487.18	495.28	487.10	8.18	60.551		
1,500.00	1,496.32	1,347.43	1,313.49	5.13	5.29	-61.76	90.28	518.89	520.11	511.24	8.87	58.626		
1,600.00	1,595.52	1,442.24	1,400.04	5.51	6.02	-60.09	73.05	553.54	545.96	536.37	9.59	56.920		
1,700.00	1,694.71	1,535.56	1,485.00	5.90	6.74	-58.50	55.30	587.79	572.27	561.99	10.28	55.691		
1,800.00	1,793.91	1,625.65	1,567.21	6.29	7.43	-57.27	40.00	621.32	599.72	588.80	10.91	54.955		
1,900.00	1,893.11	1,717.69	1,651.26	6.68	8.14	-56.23	25.66	656.00	628.05	616.50	11.56	54.350		
2,000.00	1,992.30	1,806.97	1,732.54	7.07	8.84	-55.29	11.60	690.12	657.12	644.95	12.17	53.993		
2,100.00	2,091.50	1,901.51	1,818.36	7.46	9.59	-54.38	-2.99	727.02	687.20	674.38	12.82	53.615		
2,200.00	2,190.70	2,015.15	1,921.88	7.86	10.46	-53.31	-21.68	770.00	716.18	702.59	13.59	52.712		
2,300.00	2,289.89	2,126.47	2,024.42	8.25	11.27	-52.37	-40.23	809.16	742.51	728.19	14.32	51.852		
2,400.00	2,389.09	2,219.71	2,110.43	8.65	11.95	-51.63	-55.79	841.60	768.62	753.68	14.94	51.440		
2,500.00	2,488.29	2,333.45	2,215.56	9.05	12.76	-50.74	-75.72	880.15	793.93	778.25	15.68	50.623		
2,600.00	2,587.48	2,440.66	2,315.65	9.45	13.46	-50.05	-93.36	914.26	817.20	800.85	16.35	49.978		
2,700.00	2,686.68	2,532.71	2,402.13	9.85	14.06	-49.69	-105.65	943.33	840.40	823.46	16.93	49.628		
2,800.00	2,785.88	2,649.22	2,511.86	10.25	14.79	-49.32	-120.53	979.52	863.13	845.46	17.67	48.852		
2,900.00	2,885.07	2,751.70	2,608.97	10.65	15.41	-48.97	-134.31	1,009.21	883.68	865.37	18.32	48.247		
3,000.00	2,984.27	2,841.28	2,693.49	11.05	15.98	-48.68	-146.24	1,036.40	905.64	886.75	18.90	47.923		
3,100.00	3,083.47	2,956.98	2,802.78	11.45	16.69	-48.16	-164.31	1,069.78	926.10	906.47	19.64	47.165		
3,200.00	3,182.66	3,061.40	2,901.52	11.85	17.32	-47.65	-181.71	1,098.92	945.74	925.47	20.27	46.653		
3,300.00	3,281.86	3,149.13	2,984.80	12.25	17.84	-47.37	-194.20	1,123.51	965.50	944.68	20.82	46.364		
3,400.00	3,381.05	3,236.88	3,067.76	12.66	18.40	-47.07	-207.12	1,149.04	986.38	964.98	21.40	46.094		
3,500.00	3,480.25	3,328.77	3,154.19	13.06	18.99	-46.69	-222.03	1,176.43	1,008.08	986.11	21.97	45.876		
3,600.00	3,579.45	3,420.75	3,240.79	13.46	19.58	-46.41	-235.42	1,204.38	1,030.34	1,007.80	22.53	45.724		
3,700.00	3,678.64	3,530.82	3,344.83	13.87	20.25	-46.21	-249.23	1,237.56	1,052.31	1,029.09	23.22	45.323		
3,800.00	3,777.84	3,635.27	3,443.81	14.27	20.88	-45.98	-263.29	1,267.81	1,073.09	1,049.23	23.87	44.965		
3,900.00	3,877.04	3,724.65	3,528.52	14.67	21.42	-45.83	-274.69	1,293.93	1,094.15	1,069.72	24.43	44.793		
4,000.00	3,976.23	3,824.96	3,623.33	15.08	22.04	-45.63	-288.03	1,323.83	1,115.84	1,090.78	25.06	44.534		
4,100.00	4,075.43	3,905.67	3,699.60	15.48	22.56	-45.46	-299.19	1,347.75	1,137.46	1,111.90	25.56	44.507		
4,200.00	4,174.63	3,983.01	3,772.20	15.89	23.07	-45.33	-309.28	1,372.43	1,161.25	1,135.22	26.03	44.612		
4,300.00	4,273.82	4,118.93	3,899.92	16.29	23.93	-45.11	-326.93	1,415.40	1,185.10	1,158.21	26.89	44.075		
4,400.00	4,373.02	4,223.73	3,999.36	16.70	24.56	-44.92	-341.19	1,445.29	1,205.48	1,177.96	27.52	43.800		
4,500.00	4,472.22	4,292.00	4,063.84	17.10	25.00	-44.84	-349.48	1,466.10	1,227.68	1,199.74	27.95	43.928		
4,600.00	4,571.41	4,348.73	4,116.89	17.51	25.41	-44.78	-356.47	1,484.91	1,252.58	1,224.28	28.30	44.266		
4,700.00	4,670.61	4,439.97	4,201.54	17.91	26.05	-44.63	-368.85	1,516.63	1,279.39	1,250.54	28.86	44.335		
4,800.00	4,769.81	4,598.30	4,350.11	18.32	27.05	-44.42	-389.58	1,567.21	1,303.13	1,273.28	29.85	43.652		
4,900.00	4,869.00	4,697.35	4,443.83	18.72	27.66	-44.32	-401.70	1,596.91	1,324.99	1,294.52	30.47	43.481		
5,000.00	4,968.20	4,795.25	4,536.30	19.13	28.28	-44.18	-415.05	1,626.14	1,346.84	1,315.75	31.09	43.325		

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 HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W - Ray Nelson 8-8-32 - CPR WELL - SURVEYS												Offset Site Error: 0.00 usft	
Survey Program: 70-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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	
5,100.00	5,067.40	4,877.86	4,614.10	19.53	28.81	-44.01	-427.35	1,651.04	1,369.10	1,337.50	31.60	43.328	
5,200.00	5,166.59	5,087.80	4,813.41	19.94	29.99	-43.55	-459.54	1,708.28	1,388.94	1,356.16	32.78	42.366	
5,300.00	5,265.79	5,163.00	4,885.57	20.34	30.40	-43.41	-470.68	1,726.26	1,404.84	1,371.56	33.28	42.212	
5,400.00	5,364.98	5,270.00	4,988.14	20.75	30.97	-43.20	-486.63	1,752.22	1,421.13	1,387.21	33.92	41.902	
5,500.00	5,464.18	5,377.23	5,091.10	21.15	31.52	-43.05	-501.39	1,778.31	1,437.45	1,402.90	34.55	41.605	
5,600.00	5,563.38	5,532.10	5,241.22	21.56	32.21	-42.99	-518.81	1,812.04	1,450.87	1,415.50	35.37	41.016	
5,700.00	5,662.57	5,729.86	5,435.52	21.97	32.88	-43.15	-534.19	1,845.17	1,458.80	1,422.51	36.29	40.202	
5,800.00	5,761.77	5,888.48	5,592.75	22.37	33.27	-43.43	-542.20	1,864.40	1,462.24	1,425.22	37.02	39.500	
5,900.00	5,860.97	6,039.42	5,743.12	22.78	33.54	-43.80	-546.65	1,876.60	1,461.28	1,423.57	37.71	38.750	
6,000.00	5,960.16	6,165.64	5,869.13	23.18	33.71	-44.18	-548.71	1,883.52	1,457.68	1,419.32	38.36	37.996	
6,100.00	6,059.36	6,279.70	5,983.08	23.59	33.84	-44.54	-549.81	1,888.41	1,452.94	1,413.93	39.01	37.241	
6,200.00	6,158.56	6,386.83	6,090.15	24.00	33.96	-44.91	-550.21	1,892.15	1,447.43	1,407.76	39.66	36.493	
6,300.00	6,257.75	6,508.96	6,212.24	24.40	34.05	-45.36	-550.02	1,894.93	1,440.68	1,400.37	40.31	35.737	
6,400.00	6,356.95	6,613.65	6,316.91	24.81	34.13	-45.76	-549.51	1,896.61	1,433.38	1,392.41	40.97	34.988	
6,500.00	6,456.15	6,723.07	6,426.32	25.21	34.20	-46.20	-548.63	1,897.70	1,425.53	1,383.90	41.62	34.248	
6,600.00	6,555.34	6,824.80	6,528.05	25.62	34.26	-46.61	-547.71	1,898.23	1,417.27	1,374.98	42.29	33.516	
6,702.76	6,657.28	6,928.67	6,631.92	26.04	34.32	-47.04	-546.71	1,898.64	1,408.73	1,365.76	42.97	32.785	
6,750.00	6,704.24	6,977.03	6,680.27	26.22	34.35	-16.86	-546.16	1,898.78	1,404.72	1,361.47	43.25	32.481	
6,800.00	6,754.03	7,028.32	6,731.56	26.40	34.37	25.67	-545.49	1,898.86	1,400.34	1,356.87	43.47	32.216	
6,850.00	6,803.66	7,079.50	6,782.73	26.56	34.40	51.38	-544.74	1,898.89	1,395.83	1,352.22	43.61	32.005	
6,900.00	6,852.89	7,128.78	6,832.00	26.70	34.43	63.97	-543.99	1,898.90	1,391.26	1,347.57	43.69	31.844	
6,950.00	6,901.49	7,177.31	6,880.53	26.83	34.46	71.13	-543.29	1,898.91	1,386.75	1,343.05	43.70	31.734	
7,000.00	6,949.20	7,224.99	6,928.20	26.95	34.48	75.89	-542.66	1,898.92	1,382.39	1,338.75	43.64	31.677	
7,050.00	6,995.81	7,272.07	6,975.28	27.05	34.51	79.45	-542.07	1,898.94	1,378.30	1,334.79	43.52	31.671 SF	
7,100.00	7,041.08	7,318.99	7,022.20	27.15	34.53	82.35	-541.50	1,898.92	1,374.59	1,331.25	43.34	31.717	
7,150.00	7,084.79	7,364.33	7,067.54	27.23	34.56	84.83	-540.96	1,898.86	1,371.41	1,328.30	43.11	31.814	
7,200.00	7,126.74	7,407.87	7,111.08	27.31	34.58	87.01	-540.44	1,898.76	1,368.93	1,326.10	42.83	31.960	
7,250.00	7,166.71	7,449.14	7,152.34	27.37	34.60	88.95	-539.96	1,898.63	1,367.36	1,324.83	42.52	32.155	
7,293.73	7,199.90	7,483.08	7,186.27	27.42	34.62	90.46	-539.58	1,898.50	1,366.89	1,324.65	42.23	32.364	
7,300.00	7,204.52	7,487.80	7,191.00	27.42	34.62	90.66	-539.53	1,898.48	1,366.90	1,324.71	42.19	32.397	
7,350.00	7,239.97	7,524.06	7,227.26	27.47	34.64	92.16	-539.14	1,898.33	1,367.75	1,325.90	41.85	32.682	
7,400.00	7,272.89	7,557.75	7,260.94	27.51	34.66	93.45	-538.80	1,898.18	1,370.09	1,328.58	41.51	33.005	
7,450.00	7,303.14	7,588.70	7,291.89	27.54	34.67	94.49	-538.51	1,898.02	1,374.11	1,332.92	41.19	33.359	
7,500.00	7,330.54	7,616.60	7,319.79	27.57	34.69	95.28	-538.26	1,897.87	1,379.95	1,339.04	40.91	33.734	
7,550.00	7,354.98	7,641.18	7,344.37	27.60	34.70	95.78	-538.05	1,897.74	1,387.73	1,347.06	40.67	34.120	
7,600.00	7,376.34	7,662.65	7,365.84	27.63	34.71	95.99	-537.89	1,897.62	1,397.56	1,357.06	40.50	34.507	
7,650.00	7,394.51	7,680.93	7,384.12	27.66	34.73	95.89	-537.76	1,897.52	1,409.49	1,369.09	40.40	34.885	
7,700.00	7,409.39	7,695.94	7,399.13	27.71	34.73	95.45	-537.65	1,897.44	1,423.53	1,383.14	40.39	35.246	
7,750.00	7,420.93	7,707.61	7,410.80	27.77	34.74	94.68	-537.58	1,897.37	1,439.66	1,399.20	40.46	35.584	
7,800.00	7,429.06	7,715.90	7,419.09	27.86	34.74	93.54	-537.53	1,897.33	1,457.81	1,417.20	40.61	35.895	
7,850.00	7,433.75	7,720.79	7,423.97	27.97	34.75	92.05	-537.50	1,897.30	1,477.88	1,437.03	40.85	36.181	
7,892.48	7,435.00	7,722.25	7,425.44	28.09	34.75	90.49	-537.49	1,897.29	1,496.33	1,455.23	41.10	36.407	
7,900.00	7,435.00	7,722.29	7,425.48	28.12	34.75	90.49	-537.49	1,897.29	1,499.72	1,458.57	41.15	36.445	

Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3P-32H-K268 - Hz - Plan #5												Offset Site Error:	0.00 usft
Survey Program: 0-												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
11,500.00	7,435.00	10,244.56	7,363.91	69.34	51.39	-87.85	3,789.63	-901.03	1,498.65	1,379.87	118.78	12.617	
11,600.00	7,435.00	10,344.47	7,363.10	70.83	53.03	-87.82	3,889.53	-900.57	1,494.38	1,372.43	121.95	12.254	
11,700.00	7,435.00	10,444.37	7,362.29	72.31	54.68	-87.78	3,989.43	-900.11	1,490.12	1,364.99	125.14	11.908	
11,800.00	7,435.00	10,544.28	7,361.48	73.81	56.33	-87.74	4,089.33	-899.65	1,485.86	1,357.54	128.33	11.579	
11,900.00	7,435.00	10,644.18	7,360.67	75.31	57.99	-87.70	4,189.23	-899.19	1,481.60	1,350.08	131.53	11.264	
11,978.18	7,435.00	10,722.29	7,360.03	76.25	59.29	-87.67	4,267.34	-898.83	1,478.27	1,344.48	133.80	11.049	CC, ES, SF

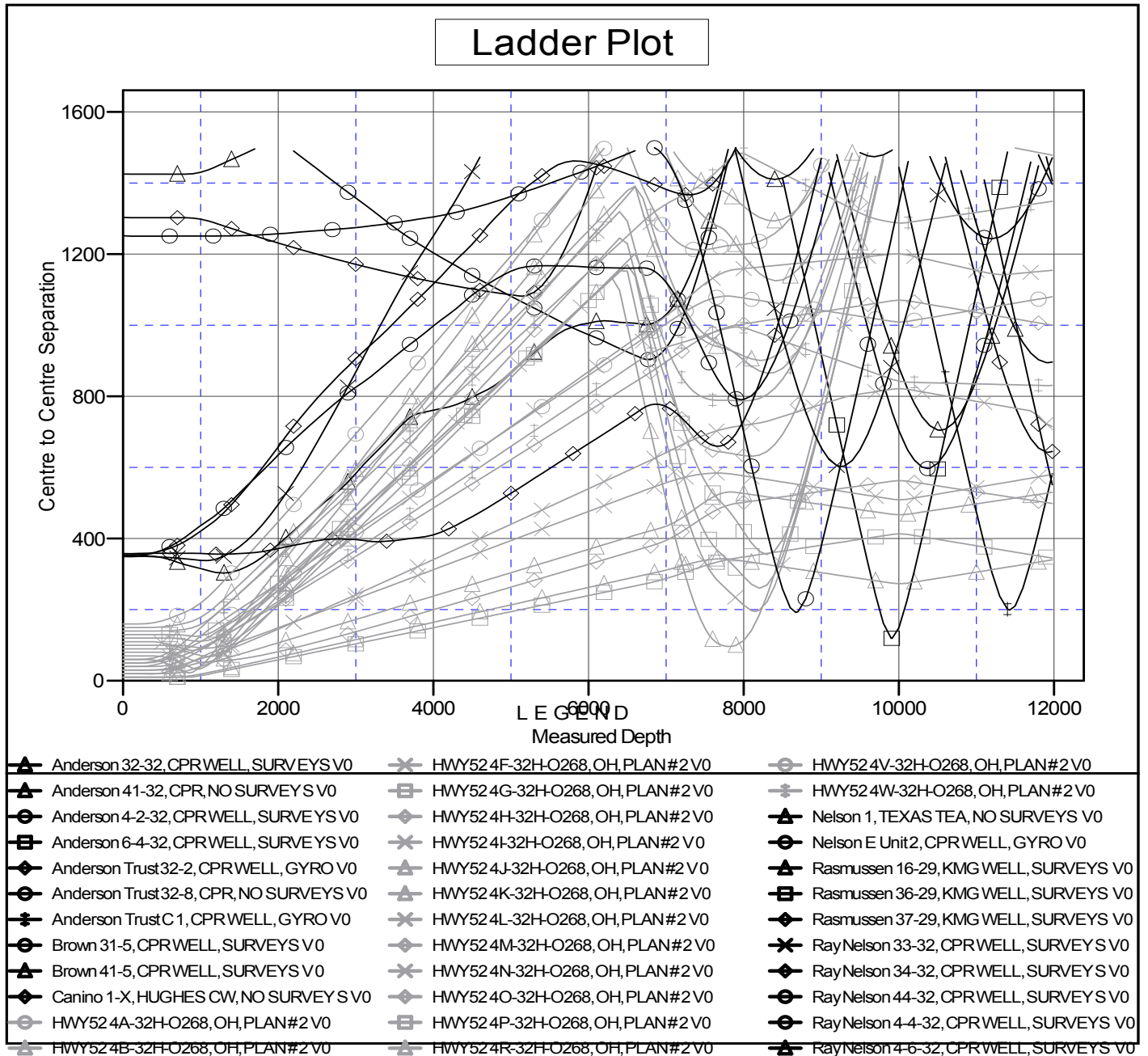
Cathedral Energy Services

Anticollision Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well HWY52 4Q-32H-O268
Project:	DJ BASIN	TVD Reference:	23' KB @ 5015.00usft
Reference Site:	S32-T2N-R68W	MD Reference:	23' KB @ 5015.00usft
Site Error:	0.00usft	North Reference:	True
Reference Well:	HWY52 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 23' KB @ 5015.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: HWY52 4Q-32H-O268
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.31°



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