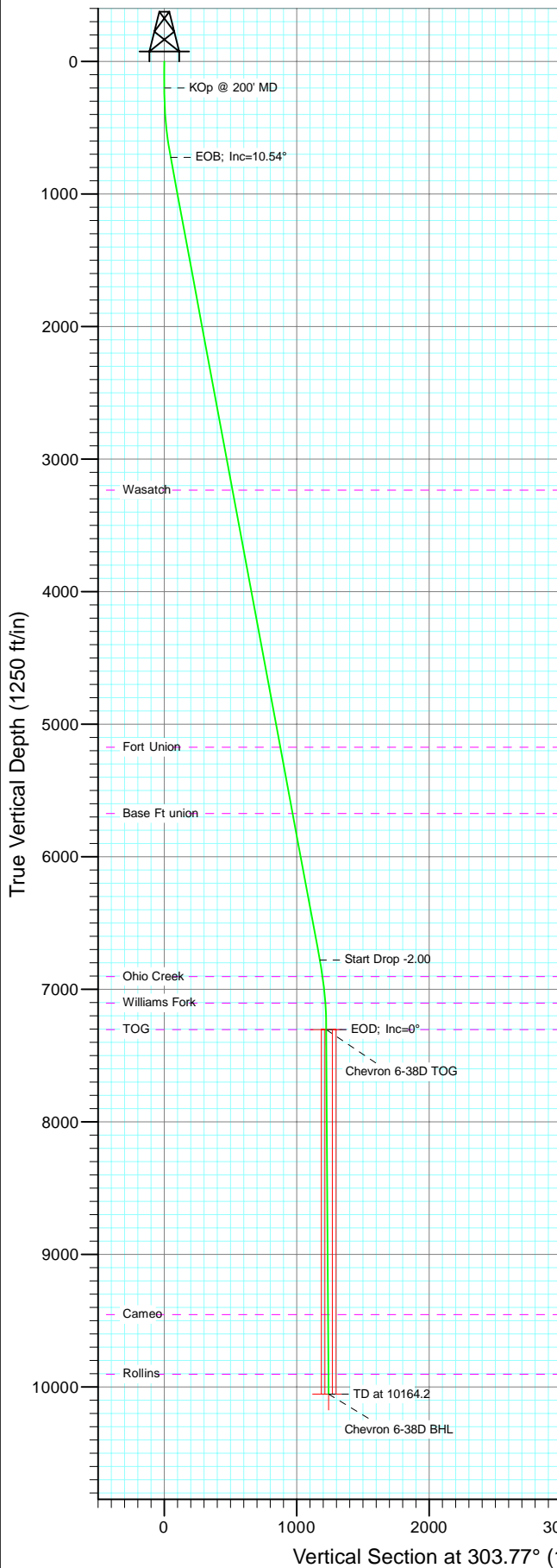
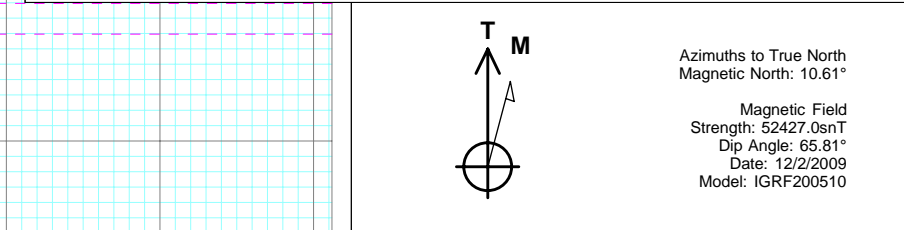
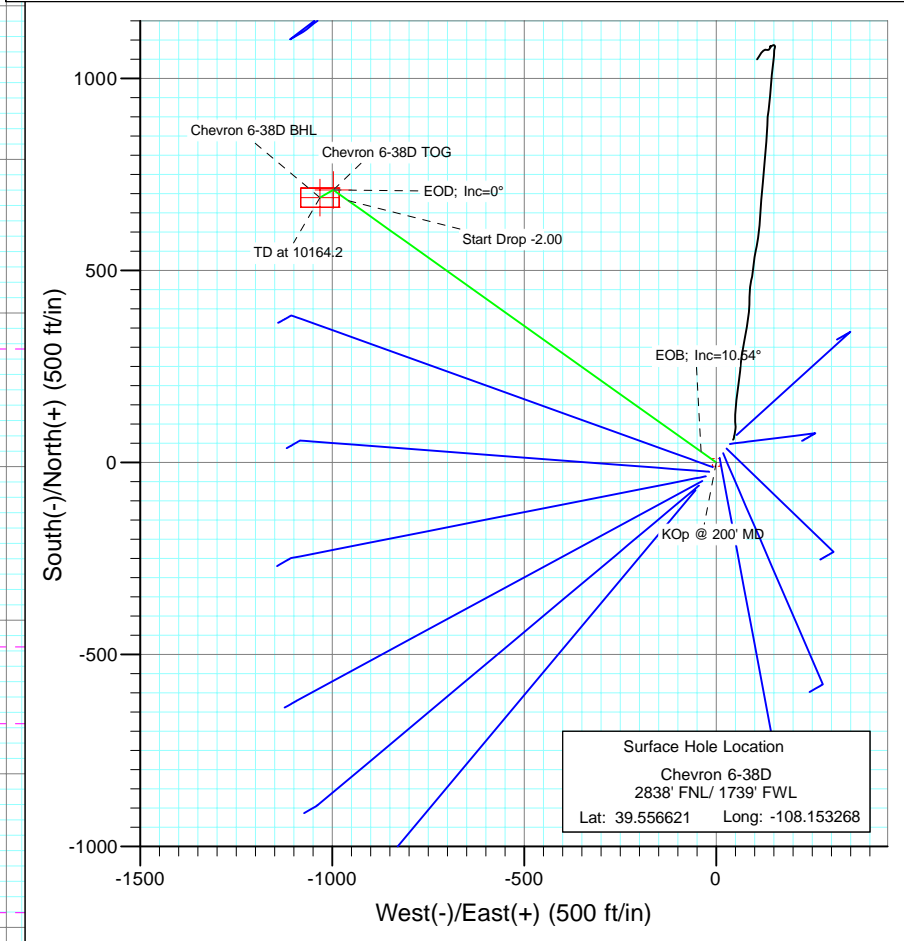




Project: Garfield County
Site: Sec 6 T6S R96W (F06 696)
Well: Chevron 6-38D
Wellbore: DD
Design: Plan #2



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	727.2	10.54	305.45	724.2	28.1	-39.4	2.00	305.45	48.4	
4	6886.8	10.54	305.45	6779.8	681.8	-957.6	0.00	0.00	1175.0	
5	7413.9	0.00	0.00	7304.0	709.9	-997.0	2.00	180.00	1223.3	Chevron 6-38D TOG
6	7770.6	0.89	240.10	7660.7	708.5	-999.4	0.25	240.10	1224.6	
7	10164.2	0.89	240.10	10054.0	689.9	-1031.7	0.00	0.00	1241.1	Chevron 6-38D BHL



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3234.0	3280.1	Wasatch
5174.0	5253.4	Fort Union
5674.0	5762.0	Base Ft union
6904.0	7012.6	Ohio Creek
7104.0	7213.8	Williams Fork
7304.0	7413.9	TOG
9454.0	9564.2	Cameo
9904.0	10014.2	Rollins

DESIGN DETAILS: Plan #2					
95XXX; BH					
KBE @ 8244.0ft (Original Well Elev)					
Target	Azimuth	Origin	N/S	E/W	From TVD
Chevron 6-38D BHL	303.77	Slot	0.0	0.0	0.0

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-38D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site:	Sec 6 T6S R96W (F06 696)	North Reference:	True
Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Project	Garfield County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Sec 6 T6S R96W (F06 696)			
Site Position:		Northing:	1,638,592.01 ft	Latitude:	39.556729
From:	Lat/Long	Easting:	2,252,075.57 ft	Longitude:	-108.153012
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.67 °

Well	Chevron 6-38D					
Well Position	+N/-S	0.0 ft	Northing:	1,638,554.78 ft	Latitude:	39.556621
	+E/-W	0.0 ft	Easting:	2,252,002.27 ft	Longitude:	-108.153268
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,222.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/2/2009	10.60	65.81	52,427

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	303.77

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
727.2	10.54	305.45	724.2	28.1	-39.4	2.00	2.00	0.00	305.45	
6,886.8	10.54	305.45	6,779.8	681.8	-957.6	0.00	0.00	0.00	0.00	
7,413.9	0.00	0.00	7,304.0	709.9	-997.0	2.00	-2.00	0.00	180.00	Chevron 6-38D TOG
7,770.6	0.89	240.10	7,660.7	708.5	-999.4	0.25	0.25	-33.61	240.10	
10,164.2	0.89	240.10	10,054.0	689.9	-1,031.7	0.00	0.00	0.00	0.00	Chevron 6-38D BHL

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-38D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site:	Sec 6 T6S R96W (F06 696)	North Reference:	True
Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
30.0	0.00	0.00	30.0	0.0	0.0	0.0	0.00	0.00	
60.0	0.00	0.00	60.0	0.0	0.0	0.0	0.00	0.00	
90.0	0.00	0.00	90.0	0.0	0.0	0.0	0.00	0.00	
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	
180.0	0.00	0.00	180.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOp @ 200' MD
210.0	0.20	305.45	210.0	0.0	0.0	0.0	2.00	2.00	
240.0	0.80	305.45	240.0	0.2	-0.2	0.3	2.00	2.00	
270.0	1.40	305.45	270.0	0.5	-0.7	0.9	2.00	2.00	
300.0	2.00	305.45	300.0	1.0	-1.4	1.7	2.00	2.00	
330.0	2.60	305.45	330.0	1.7	-2.4	2.9	2.00	2.00	
360.0	3.20	305.45	359.9	2.6	-3.6	4.5	2.00	2.00	
390.0	3.80	305.45	389.9	3.7	-5.1	6.3	2.00	2.00	
420.0	4.40	305.45	419.8	4.9	-6.9	8.4	2.00	2.00	
450.0	5.00	305.45	449.7	6.3	-8.9	10.9	2.00	2.00	
480.0	5.60	305.45	479.6	7.9	-11.1	13.7	2.00	2.00	
510.0	6.20	305.45	509.4	9.7	-13.6	16.7	2.00	2.00	
540.0	6.80	305.45	539.2	11.7	-16.4	20.1	2.00	2.00	
570.0	7.40	305.45	569.0	13.8	-19.4	23.9	2.00	2.00	
600.0	8.00	305.45	598.7	16.2	-22.7	27.9	2.00	2.00	
630.0	8.60	305.45	628.4	18.7	-26.2	32.2	2.00	2.00	
660.0	9.20	305.45	658.0	21.4	-30.0	36.8	2.00	2.00	
690.0	9.80	305.45	687.6	24.2	-34.1	41.8	2.00	2.00	
720.0	10.40	305.45	717.1	27.3	-38.3	47.0	2.00	2.00	
727.2	10.54	305.45	724.2	28.1	-39.4	48.4	2.00	2.00	EOB; Inc=10.54°
750.0	10.54	305.45	746.6	30.5	-42.8	52.5	0.00	0.00	
780.0	10.54	305.45	776.1	33.7	-47.3	58.0	0.00	0.00	
810.0	10.54	305.45	805.6	36.8	-51.7	63.5	0.00	0.00	
840.0	10.54	305.45	835.1	40.0	-56.2	69.0	0.00	0.00	
870.0	10.54	305.45	864.6	43.2	-60.7	74.5	0.00	0.00	
900.0	10.54	305.45	894.1	46.4	-65.2	80.0	0.00	0.00	
930.0	10.54	305.45	923.6	49.6	-69.6	85.4	0.00	0.00	
960.0	10.54	305.45	953.1	52.8	-74.1	90.9	0.00	0.00	
990.0	10.54	305.45	982.6	56.0	-78.6	96.4	0.00	0.00	
1,020.0	10.54	305.45	1,012.1	59.1	-83.0	101.9	0.00	0.00	
1,050.0	10.54	305.45	1,041.6	62.3	-87.5	107.4	0.00	0.00	
1,080.0	10.54	305.45	1,071.1	65.5	-92.0	112.9	0.00	0.00	
1,110.0	10.54	305.45	1,100.6	68.7	-96.5	118.4	0.00	0.00	
1,140.0	10.54	305.45	1,130.1	71.9	-100.9	123.9	0.00	0.00	
1,170.0	10.54	305.45	1,159.6	75.1	-105.4	129.3	0.00	0.00	
1,200.0	10.54	305.45	1,189.0	78.2	-109.9	134.8	0.00	0.00	
1,230.0	10.54	305.45	1,218.5	81.4	-114.4	140.3	0.00	0.00	
1,260.0	10.54	305.45	1,248.0	84.6	-118.8	145.8	0.00	0.00	
1,290.0	10.54	305.45	1,277.5	87.8	-123.3	151.3	0.00	0.00	
1,320.0	10.54	305.45	1,307.0	91.0	-127.8	156.8	0.00	0.00	
1,350.0	10.54	305.45	1,336.5	94.2	-132.2	162.3	0.00	0.00	
1,380.0	10.54	305.45	1,366.0	97.3	-136.7	167.8	0.00	0.00	
1,410.0	10.54	305.45	1,395.5	100.5	-141.2	173.2	0.00	0.00	
1,440.0	10.54	305.45	1,425.0	103.7	-145.7	178.7	0.00	0.00	
1,470.0	10.54	305.45	1,454.5	106.9	-150.1	184.2	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-38D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site:	Sec 6 T6S R96W (F06 696)	North Reference:	True
Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
1,500.0	10.54	305.45	1,484.0	110.1	-154.6	189.7	0.00	0.00	
1,530.0	10.54	305.45	1,513.5	113.3	-159.1	195.2	0.00	0.00	
1,560.0	10.54	305.45	1,543.0	116.4	-163.5	200.7	0.00	0.00	
1,590.0	10.54	305.45	1,572.5	119.6	-168.0	206.2	0.00	0.00	
1,620.0	10.54	305.45	1,602.0	122.8	-172.5	211.7	0.00	0.00	
1,650.0	10.54	305.45	1,631.4	126.0	-177.0	217.1	0.00	0.00	
1,680.0	10.54	305.45	1,660.9	129.2	-181.4	222.6	0.00	0.00	
1,710.0	10.54	305.45	1,690.4	132.4	-185.9	228.1	0.00	0.00	
1,740.0	10.54	305.45	1,719.9	135.6	-190.4	233.6	0.00	0.00	
1,770.0	10.54	305.45	1,749.4	138.7	-194.8	239.1	0.00	0.00	
1,800.0	10.54	305.45	1,778.9	141.9	-199.3	244.6	0.00	0.00	
1,830.0	10.54	305.45	1,808.4	145.1	-203.8	250.1	0.00	0.00	
1,860.0	10.54	305.45	1,837.9	148.3	-208.3	255.6	0.00	0.00	
1,890.0	10.54	305.45	1,867.4	151.5	-212.7	261.0	0.00	0.00	
1,920.0	10.54	305.45	1,896.9	154.7	-217.2	266.5	0.00	0.00	
1,950.0	10.54	305.45	1,926.4	157.8	-221.7	272.0	0.00	0.00	
1,980.0	10.54	305.45	1,955.9	161.0	-226.1	277.5	0.00	0.00	
2,010.0	10.54	305.45	1,985.4	164.2	-230.6	283.0	0.00	0.00	
2,040.0	10.54	305.45	2,014.9	167.4	-235.1	288.5	0.00	0.00	
2,070.0	10.54	305.45	2,044.4	170.6	-239.6	294.0	0.00	0.00	
2,100.0	10.54	305.45	2,073.9	173.8	-244.0	299.4	0.00	0.00	
2,130.0	10.54	305.45	2,103.3	176.9	-248.5	304.9	0.00	0.00	
2,160.0	10.54	305.45	2,132.8	180.1	-253.0	310.4	0.00	0.00	
2,190.0	10.54	305.45	2,162.3	183.3	-257.5	315.9	0.00	0.00	
2,220.0	10.54	305.45	2,191.8	186.5	-261.9	321.4	0.00	0.00	
2,250.0	10.54	305.45	2,221.3	189.7	-266.4	326.9	0.00	0.00	
2,280.0	10.54	305.45	2,250.8	192.9	-270.9	332.4	0.00	0.00	
2,310.0	10.54	305.45	2,280.3	196.1	-275.3	337.9	0.00	0.00	
2,340.0	10.54	305.45	2,309.8	199.2	-279.8	343.3	0.00	0.00	
2,370.0	10.54	305.45	2,339.3	202.4	-284.3	348.8	0.00	0.00	
2,400.0	10.54	305.45	2,368.8	205.6	-288.8	354.3	0.00	0.00	
2,430.0	10.54	305.45	2,398.3	208.8	-293.2	359.8	0.00	0.00	
2,460.0	10.54	305.45	2,427.8	212.0	-297.7	365.3	0.00	0.00	
2,490.0	10.54	305.45	2,457.3	215.2	-302.2	370.8	0.00	0.00	

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Chevron 6-38D TOG	0.00	0.00	7,304.0	709.9	-997.0	1,639,293.46	2,251,026.47	39.558570	-108.156804
- plan misses target center by 4921.2ft at 2490.0ft MD (2457.3 TVD, 215.2 N, -302.2 E)									
- Point									
Chevron 6-38D BHL	0.00	0.00	10,054.0	689.9	-1,031.7	1,639,274.53	2,250,991.20	39.558515	-108.156927
- plan misses target center by 7646.4ft at 2490.0ft MD (2457.3 TVD, 215.2 N, -302.2 E)									
- Rectangle (sides W50.0 H100.0 D0.0)									

Cathedral Energy Services

Planning Report

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Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site:	Sec 6 T6S R96W (F06 696)	North Reference:	True
Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
2,500.0	10.54	305.45	2,467.1	216.2	-303.7	372.6	0.00	0.00	
2,600.0	10.54	305.45	2,565.4	226.8	-318.6	390.9	0.00	0.00	
2,700.0	10.54	305.45	2,663.7	237.4	-333.5	409.2	0.00	0.00	
2,800.0	10.54	305.45	2,762.0	248.1	-348.4	427.5	0.00	0.00	
2,900.0	10.54	305.45	2,860.3	258.7	-363.3	445.8	0.00	0.00	
3,000.0	10.54	305.45	2,958.7	269.3	-378.2	464.1	0.00	0.00	
3,100.0	10.54	305.45	3,057.0	279.9	-393.1	482.4	0.00	0.00	
3,200.0	10.54	305.45	3,155.3	290.5	-408.0	500.6	0.00	0.00	
3,280.1	10.54	305.45	3,234.0	299.0	-419.9	515.3	0.00	0.00	Wasatch
3,300.0	10.54	305.45	3,253.6	301.1	-422.9	518.9	0.00	0.00	
3,400.0	10.54	305.45	3,351.9	311.7	-437.8	537.2	0.00	0.00	
3,500.0	10.54	305.45	3,450.2	322.4	-452.7	555.5	0.00	0.00	
3,600.0	10.54	305.45	3,548.5	333.0	-467.6	573.8	0.00	0.00	
3,700.0	10.54	305.45	3,646.8	343.6	-482.5	592.1	0.00	0.00	
3,800.0	10.54	305.45	3,745.1	354.2	-497.4	610.4	0.00	0.00	
3,900.0	10.54	305.45	3,843.5	364.8	-512.3	628.7	0.00	0.00	
4,000.0	10.54	305.45	3,941.8	375.4	-527.3	647.0	0.00	0.00	
4,100.0	10.54	305.45	4,040.1	386.0	-542.2	665.3	0.00	0.00	
4,200.0	10.54	305.45	4,138.4	396.6	-557.1	683.6	0.00	0.00	
4,300.0	10.54	305.45	4,236.7	407.3	-572.0	701.8	0.00	0.00	
4,400.0	10.54	305.45	4,335.0	417.9	-586.9	720.1	0.00	0.00	
4,500.0	10.54	305.45	4,433.3	428.5	-601.8	738.4	0.00	0.00	
4,600.0	10.54	305.45	4,531.6	439.1	-616.7	756.7	0.00	0.00	
4,700.0	10.54	305.45	4,629.9	449.7	-631.6	775.0	0.00	0.00	
4,800.0	10.54	305.45	4,728.3	460.3	-646.5	793.3	0.00	0.00	
4,900.0	10.54	305.45	4,826.6	470.9	-661.4	811.6	0.00	0.00	
5,000.0	10.54	305.45	4,924.9	481.6	-676.3	829.9	0.00	0.00	
5,100.0	10.54	305.45	5,023.2	492.2	-691.2	848.2	0.00	0.00	
5,200.0	10.54	305.45	5,121.5	502.8	-706.1	866.5	0.00	0.00	
5,253.4	10.54	305.45	5,174.0	508.5	-714.1	876.2	0.00	0.00	Fort Union
5,300.0	10.54	305.45	5,219.8	513.4	-721.0	884.8	0.00	0.00	
5,400.0	10.54	305.45	5,318.1	524.0	-735.9	903.0	0.00	0.00	
5,500.0	10.54	305.45	5,416.4	534.6	-750.8	921.3	0.00	0.00	
5,600.0	10.54	305.45	5,514.8	545.2	-765.7	939.6	0.00	0.00	
5,700.0	10.54	305.45	5,613.1	555.9	-780.7	957.9	0.00	0.00	
5,762.0	10.54	305.45	5,674.0	562.4	-789.9	969.3	0.00	0.00	Base Ft union
5,800.0	10.54	305.45	5,711.4	566.5	-795.6	976.2	0.00	0.00	
5,900.0	10.54	305.45	5,809.7	577.1	-810.5	994.5	0.00	0.00	
6,000.0	10.54	305.45	5,908.0	587.7	-825.4	1,012.8	0.00	0.00	
6,100.0	10.54	305.45	6,006.3	598.3	-840.3	1,031.1	0.00	0.00	
6,200.0	10.54	305.45	6,104.6	608.9	-855.2	1,049.4	0.00	0.00	
6,300.0	10.54	305.45	6,202.9	619.5	-870.1	1,067.7	0.00	0.00	
6,400.0	10.54	305.45	6,301.2	630.2	-885.0	1,086.0	0.00	0.00	
6,500.0	10.54	305.45	6,399.6	640.8	-899.9	1,104.2	0.00	0.00	
6,600.0	10.54	305.45	6,497.9	651.4	-914.8	1,122.5	0.00	0.00	
6,700.0	10.54	305.45	6,596.2	662.0	-929.7	1,140.8	0.00	0.00	
6,800.0	10.54	305.45	6,694.5	672.6	-944.6	1,159.1	0.00	0.00	
6,886.8	10.54	305.45	6,779.8	681.8	-957.6	1,175.0	0.00	0.00	Start Drop -2.00
6,900.0	10.28	305.45	6,792.8	683.2	-959.5	1,177.4	2.00	-2.00	
7,000.0	8.28	305.45	6,891.5	692.6	-972.6	1,193.5	2.00	-2.00	
7,012.6	8.03	305.45	6,904.0	693.6	-974.1	1,195.3	2.00	-2.00	Ohio Creek
7,100.0	6.28	305.45	6,990.7	699.9	-983.0	1,206.2	2.00	-2.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-38D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site:	Sec 6 T6S R96W (F06 696)	North Reference:	True
Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
7,200.0	4.28	305.45	7,090.3	705.2	-990.5	1,215.4	2.00	-2.00	
7,213.8	4.00	305.45	7,104.0	705.8	-991.3	1,216.3	2.00	-2.00	Williams Fork
7,300.0	2.28	305.45	7,190.1	708.6	-995.1	1,221.1	2.00	-2.00	
7,400.0	0.28	305.45	7,290.1	709.9	-996.9	1,223.3	2.00	-2.00	
7,413.9	0.00	0.00	7,304.0	709.9	-997.0	1,223.3	2.00	-2.00	EOD; Inc=0° - TOG - Chevron 6-38D TOG
7,500.0	0.22	240.10	7,390.1	709.8	-997.1	1,223.4	0.25	0.25	
7,600.0	0.47	240.10	7,490.1	709.5	-997.6	1,223.7	0.25	0.25	
7,700.0	0.72	240.10	7,590.0	709.0	-998.5	1,224.1	0.25	0.25	
7,770.6	0.89	240.10	7,660.7	708.5	-999.4	1,224.6	0.25	0.25	
7,800.0	0.89	240.10	7,690.0	708.3	-999.8	1,224.8	0.00	0.00	
7,900.0	0.89	240.10	7,790.0	707.5	-1,001.1	1,225.5	0.00	0.00	
8,000.0	0.89	240.10	7,890.0	706.7	-1,002.5	1,226.2	0.00	0.00	
8,100.0	0.89	240.10	7,990.0	705.9	-1,003.8	1,226.8	0.00	0.00	
8,200.0	0.89	240.10	8,090.0	705.2	-1,005.2	1,227.5	0.00	0.00	
8,300.0	0.89	240.10	8,190.0	704.4	-1,006.5	1,228.2	0.00	0.00	
8,400.0	0.89	240.10	8,290.0	703.6	-1,007.9	1,228.9	0.00	0.00	
8,500.0	0.89	240.10	8,390.0	702.8	-1,009.2	1,229.6	0.00	0.00	
8,600.0	0.89	240.10	8,489.9	702.1	-1,010.6	1,230.3	0.00	0.00	
8,700.0	0.89	240.10	8,589.9	701.3	-1,011.9	1,231.0	0.00	0.00	
8,800.0	0.89	240.10	8,689.9	700.5	-1,013.3	1,231.7	0.00	0.00	
8,900.0	0.89	240.10	8,789.9	699.7	-1,014.6	1,232.4	0.00	0.00	
9,000.0	0.89	240.10	8,889.9	698.9	-1,015.9	1,233.1	0.00	0.00	
9,100.0	0.89	240.10	8,989.9	698.2	-1,017.3	1,233.7	0.00	0.00	
9,200.0	0.89	240.10	9,089.9	697.4	-1,018.6	1,234.4	0.00	0.00	
9,300.0	0.89	240.10	9,189.9	696.6	-1,020.0	1,235.1	0.00	0.00	
9,400.0	0.89	240.10	9,289.8	695.8	-1,021.3	1,235.8	0.00	0.00	
9,500.0	0.89	240.10	9,389.8	695.1	-1,022.7	1,236.5	0.00	0.00	
9,564.2	0.89	240.10	9,454.0	694.6	-1,023.6	1,236.9	0.00	0.00	Cameo
9,600.0	0.89	240.10	9,489.8	694.3	-1,024.0	1,237.2	0.00	0.00	
9,700.0	0.89	240.10	9,589.8	693.5	-1,025.4	1,237.9	0.00	0.00	
9,800.0	0.89	240.10	9,689.8	692.7	-1,026.7	1,238.6	0.00	0.00	
9,900.0	0.89	240.10	9,789.8	692.0	-1,028.1	1,239.3	0.00	0.00	
10,000.0	0.89	240.10	9,889.8	691.2	-1,029.4	1,240.0	0.00	0.00	
10,014.2	0.89	240.10	9,904.0	691.1	-1,029.6	1,240.1	0.00	0.00	Rollins
10,100.0	0.89	240.10	9,989.8	690.4	-1,030.8	1,240.6	0.00	0.00	
10,164.2	0.89	240.10	10,054.0	689.9	-1,031.7	1,241.1	0.00	0.00	TD at 10164.2 - Chevron 6-38D BHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Chevron 6-38D TOG	0.00	0.00	7,304.0	709.9	-997.0	1,639,293.46	2,251,026.47	39.558570	-108.156804
- plan hits target center									
- Point									
Chevron 6-38D BHL	0.00	0.00	10,054.0	689.9	-1,031.7	1,639,274.53	2,250,991.20	39.558515	-108.156927
- plan hits target center									
- Rectangle (sides W50.0 H100.0 D0.0)									

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-38D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site:	Sec 6 T6S R96W (F06 696)	North Reference:	True
Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,280.1	3,234.0	Wasatch		0.00		
5,253.4	5,174.0	Fort Union		0.00		
5,762.0	5,674.0	Base Ft union		0.00		
7,012.6	6,904.0	Ohio Creek		0.00		
7,213.8	7,104.0	Williams Fork		0.00		
7,413.9	7,304.0	TOG		0.00		
9,564.2	9,454.0	Cameo		0.00		
10,014.2	9,904.0	Rollins		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOp @ 200' MD	
727.2	724.2	28.1	-39.4	EOB; Inc=10.54°	
6,886.8	6,779.8	681.8	-957.6	Start Drop -2.00	
7,413.9	7,304.0	709.9	-997.0	EOD; Inc=0°	
10,164.2	10,054.0	708.5	-999.4	TD at 10164.2	

Berry Petroleum Company (NAD 83)

Garfield County

Sec 6 T6S R96W (F06 696)

Chevron 6-38D

DD

Plan #2

Anticollision Report

17 November, 2010

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US 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:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,221.6ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	11/17/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,164.2	Plan #2 (DD)	MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)	
Chevron C06 696 (NWNW S6-T6S-R96W)					
Chevron 6-39D - DD - Plan #1	7,500.5	7,426.8	408.0	362.9	9.045 CC
Chevron 6-39D - DD - Plan #1	7,600.0	7,525.9	408.2	362.8	9.003 ES
Chevron 6-39D - DD - Plan #1	10,164.2	10,089.9	419.5	367.7	8.100 SF
Chevron 6-40D - DD - Plan #1	7,512.2	7,415.0	697.7	652.6	15.475 CC
Chevron 6-40D - DD - Plan #1	7,600.0	7,501.8	697.8	652.5	15.413 ES
Chevron 6-40D - DD - Plan #1	10,164.2	10,065.8	711.2	659.4	13.743 SF
Chevron 6-41D - DD - Plan #1	7,507.9	7,388.6	1,028.8	983.9	22.928 CC
Chevron 6-41D - DD - Plan #1	7,600.0	7,479.0	1,029.0	983.9	22.832 ES
Chevron 6-41D - DD - Plan #1	10,164.2	10,042.9	1,045.6	994.1	20.301 SF
Sec 6 T6S R96W (F06 696)					
Chevron 6-19D - DD - Plan #2	347.8	348.2	29.1	28.0	25.072 CC, ES
Chevron 6-19D - DD - Plan #2	500.0	498.6	37.0	35.2	21.118 SF
Chevron 6-20D - DD - Plan #2	200.0	200.0	45.1	44.5	72.568 CC
Chevron 6-20D - DD - Plan #2	300.0	300.0	45.2	44.2	46.365 ES
Chevron 6-20D - DD - Plan #2	600.0	597.9	54.3	52.2	25.476 SF
Chevron 6-21D - DD - Plan #2	327.5	327.7	14.1	13.0	13.002 CC, ES
Chevron 6-21D - DD - Plan #2	400.0	399.9	16.0	14.7	11.852 SF
Chevron 6-22D - DD - Plan #3	200.0	200.0	60.2	59.6	96.956 CC
Chevron 6-22D - DD - Plan #3	300.0	300.0	60.3	59.3	61.898 ES
Chevron 6-22D - DD - Plan #3	700.0	697.5	74.9	72.4	29.170 SF
Chevron 6-23D - DD - Plan #2	200.0	200.0	89.1	88.5	143.376 CC, ES
Chevron 6-23D - DD - Plan #2	1,200.0	1,178.4	212.8	207.9	44.051 SF
Chevron 6-25D - DD - DD	0.0	0.0	74.1		
Chevron 6-25D - DD - DD	10,164.2	10,190.7	1,198.7	1,150.1	24.658 SF
Chevron 6-32D - DD - Plan #2	200.0	200.0	89.8	89.2	144.593 CC, ES
Chevron 6-32D - DD - Plan #2	4,500.0	4,315.8	1,195.7	1,170.2	46.973 SF
Chevron 6-33D - DD - Plan #2	297.5	297.5	75.0	74.0	77.647 CC
Chevron 6-33D - DD - Plan #2	300.0	300.0	75.0	74.0	76.948 ES
Chevron 6-33D - DD - Plan #2	5,500.0	5,348.2	1,219.8	1,187.6	37.896 SF
Chevron 6-34D - DD - Plan #2	285.7	285.7	59.9	59.0	64.894 CC
Chevron 6-34D - DD - Plan #2	400.0	399.8	60.2	58.9	44.802 ES
Chevron 6-34D - DD - Plan #2	700.0	694.8	76.8	74.2	29.494 SF
Chevron 6-35D - DD - Plan #2	272.0	272.0	44.9	44.0	51.325 CC
Chevron 6-35D - DD - Plan #2	300.0	300.0	44.9	43.9	46.110 ES
Chevron 6-35D - DD - Plan #2	10,164.2	10,080.5	968.1	915.8	18.519 SF
Chevron 6-36D - DD - Plan #2	200.0	200.0	29.9	29.3	48.108 CC, ES
Chevron 6-36D - DD - Plan #2	10,164.2	10,103.2	659.4	606.7	12.529 SF
Chevron 6-37D - DD - Plan #2	233.3	233.3	14.9	14.1	20.124 CC
Chevron 6-37D - DD - Plan #2	300.0	300.0	14.9	14.0	15.344 ES
Chevron 6-37D - DD - Plan #2	10,164.2	10,145.7	344.3	289.2	6.252 SF
Section 6 T6S R96W					
Chevron 6-25D - DD - Plan #1	5,530.2	5,500.9	1,054.9	1,019.5	29.878 CC
Chevron 6-25D - DD - Plan #1	5,600.0	5,566.9	1,055.1	1,019.3	29.513 ES
Chevron 6-25D - DD - Plan #1	10,164.2	10,053.0	1,185.6	1,136.8	24.318 SF
Chevron 6-39D - DD - Plan #1	7,492.9	7,420.0	419.4	374.6	9.366 CC
Chevron 6-39D - DD - Plan #1	10,164.2	10,093.1	419.9	368.1	8.114 ES, SF
Chevron 6-40D - DD - Plan #1	7,504.6	7,408.9	711.3	666.5	15.876 CC
Chevron 6-40D - DD - Plan #1	10,164.2	10,071.6	711.8	660.1	13.762 ES, SF
Chevron 6-41D - DD - Plan #1	7,730.0	7,622.7	1,044.4	999.3	23.118 CC
Chevron 6-41D - DD - Plan #1	10,164.2	10,056.9	1,046.3	994.8	20.316 ES, SF

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Chevron C06 696 (NWNW S6-T6S-R96W) - Chevron 6-39D - DD - Plan #1		Offset Site Error: 0.0 ft	
Survey Program: 0-MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
3,700.0	3,646.8	3,756.2	3,685.1	12.4	14.0	53.07	1,538.3	-544.9	1,205.3	1,183.0	22.39	53.844				
3,800.0	3,745.1	3,853.4	3,780.1	12.8	14.4	52.95	1,525.7	-561.1	1,182.0	1,159.0	23.03	51.320				
3,900.0	3,843.5	3,950.6	3,875.2	13.1	14.8	52.81	1,513.1	-577.3	1,158.7	1,135.1	23.68	48.933				
4,000.0	3,941.8	4,047.8	3,970.2	13.5	15.2	52.67	1,500.6	-593.6	1,135.5	1,111.1	24.33	46.674				
4,100.0	4,040.1	4,145.0	4,065.2	13.9	15.6	52.53	1,488.0	-609.8	1,112.2	1,087.2	24.97	44.532				
4,200.0	4,138.4	4,242.3	4,160.2	14.2	16.0	52.38	1,475.4	-626.1	1,088.9	1,063.3	25.62	42.498				
4,300.0	4,236.7	4,339.5	4,255.2	14.6	16.4	52.22	1,462.9	-642.3	1,065.6	1,039.4	26.27	40.565				
4,400.0	4,335.0	4,436.7	4,350.3	15.0	16.8	52.05	1,450.3	-658.6	1,042.4	1,015.4	26.92	38.724				
4,500.0	4,433.3	4,533.9	4,445.3	15.3	17.2	51.88	1,437.8	-674.8	1,019.1	991.5	27.57	36.971				
4,600.0	4,531.6	4,631.1	4,540.3	15.7	17.6	51.70	1,425.2	-691.0	995.9	967.7	28.21	35.298				
4,700.0	4,630.0	4,728.3	4,635.3	16.1	18.0	51.51	1,412.6	-707.3	972.6	943.8	28.86	33.700				
4,800.0	4,728.3	4,825.5	4,730.3	16.4	18.4	51.31	1,400.1	-723.5	949.4	919.9	29.51	32.173				
4,900.0	4,826.6	4,922.7	4,825.4	16.8	18.8	51.10	1,387.5	-739.8	926.2	896.0	30.16	30.712				
5,000.0	4,924.9	5,020.0	4,920.4	17.2	19.2	50.89	1,374.9	-756.0	903.0	872.2	30.81	29.313				
5,100.0	5,023.2	5,117.2	5,015.4	17.5	19.6	50.65	1,362.4	-772.3	879.8	848.4	31.45	27.972				
5,200.0	5,121.5	5,214.4	5,110.4	17.9	20.0	50.41	1,349.8	-788.5	856.7	824.5	32.10	26.686				
5,300.0	5,219.8	5,311.6	5,205.4	18.3	20.4	50.16	1,337.3	-804.7	833.5	800.7	32.75	25.451				
5,400.0	5,318.1	5,408.8	5,300.4	18.6	20.8	49.88	1,324.7	-821.0	810.4	777.0	33.40	24.265				
5,500.0	5,416.4	5,506.0	5,395.5	19.0	21.2	49.60	1,312.1	-837.2	787.2	753.2	34.04	23.125				
5,600.0	5,514.8	5,603.2	5,490.5	19.4	21.6	49.29	1,299.6	-853.5	764.1	729.4	34.69	22.028				
5,700.0	5,613.1	5,700.4	5,585.5	19.7	22.0	48.97	1,287.0	-869.7	741.1	705.7	35.34	20.972				
5,800.0	5,711.4	5,797.7	5,680.5	20.1	22.4	48.63	1,274.5	-886.0	718.0	682.0	35.98	19.955				
5,900.0	5,809.7	5,894.9	5,775.5	20.5	22.8	48.26	1,261.9	-902.2	695.0	658.3	36.62	18.975				
6,000.0	5,908.0	5,992.1	5,870.6	20.8	23.2	47.87	1,249.3	-918.4	672.0	634.7	37.27	18.031				
6,100.0	6,006.3	6,089.3	5,965.6	21.2	23.6	47.45	1,236.8	-934.7	649.0	611.1	37.91	17.120				
6,200.0	6,104.6	6,186.5	6,060.6	21.6	24.0	47.00	1,224.2	-950.9	626.1	587.5	38.55	16.241				
6,300.0	6,202.9	6,283.7	6,155.6	21.9	24.4	46.51	1,211.6	-967.2	603.2	564.0	39.19	15.393				
6,400.0	6,301.2	6,380.9	6,250.6	22.3	24.8	45.99	1,199.1	-983.4	580.3	540.5	39.82	14.573				
6,500.0	6,399.6	6,478.1	6,345.7	22.7	25.2	45.43	1,186.5	-999.7	557.5	517.1	40.45	13.782				
6,600.0	6,497.9	6,575.4	6,440.7	23.0	25.6	44.81	1,174.0	-1,015.9	534.8	493.7	41.08	13.018				
6,700.0	6,596.2	6,672.6	6,535.7	23.4	26.0	44.14	1,161.4	-1,032.1	512.1	470.4	41.70	12.280				
6,800.0	6,694.5	6,769.8	6,630.7	23.8	26.4	43.42	1,148.8	-1,048.4	489.5	447.2	42.32	11.568				
6,900.0	6,792.8	6,864.2	6,723.1	24.1	26.8	42.63	1,136.8	-1,064.0	467.1	424.2	42.91	10.885				
7,000.0	6,891.5	6,956.0	6,813.3	24.4	27.1	41.69	1,126.6	-1,077.1	447.5	404.0	43.49	10.289				
7,100.0	6,990.7	7,048.8	6,905.0	24.7	27.3	40.82	1,118.1	-1,088.2	431.8	387.8	43.98	9.818				
7,200.0	7,090.3	7,142.4	6,998.0	24.9	27.5	40.05	1,111.3	-1,096.9	420.1	375.8	44.38	9.466				
7,300.0	7,190.1	7,236.7	7,092.0	25.0	27.7	39.40	1,106.4	-1,103.2	412.4	367.7	44.69	9.229				
7,400.0	7,290.1	7,331.4	7,186.6	25.1	27.8	38.90	1,103.4	-1,107.2	408.7	363.8	44.91	9.101				
7,500.0	7,390.1	7,426.3	7,281.5	25.2	27.9	104.04	1,102.3	-1,108.6	408.0	362.9	45.11	9.045				
7,500.5	7,390.5	7,426.8	7,281.9	25.2	27.9	104.04	1,102.3	-1,108.6	408.0	362.9	45.11	9.045 CC				
7,600.0	7,490.1	7,525.9	7,381.1	25.3	28.0	104.12	1,102.3	-1,108.6	408.2	362.8	45.33	9.003 ES				
7,700.0	7,590.0	7,625.9	7,481.0	25.4	28.1	104.26	1,102.3	-1,108.6	408.4	362.8	45.57	8.963				
7,800.0	7,690.0	7,725.9	7,581.0	25.5	28.2	104.46	1,102.3	-1,108.6	408.8	363.0	45.81	8.923				
7,900.0	7,790.0	7,825.9	7,681.0	25.6	28.3	104.67	1,102.3	-1,108.6	409.2	363.1	46.05	8.884				
8,000.0	7,890.0	7,925.9	7,781.0	25.7	28.4	104.88	1,102.3	-1,108.6	409.6	363.3	46.30	8.846				
8,100.0	7,990.0	8,025.9	7,881.0	25.8	28.4	105.09	1,102.3	-1,108.6	410.0	363.4	46.54	8.808				
8,200.0	8,090.0	8,125.9	7,981.0	25.9	28.5	105.30	1,102.3	-1,108.6	410.4	363.6	46.79	8.770				
8,300.0	8,190.0	8,225.9	8,081.0	26.0	28.6	105.51	1,102.3	-1,108.6	410.8	363.7	47.04	8.733				
8,400.0	8,290.0	8,325.9	8,181.0	26.2	28.7	105.72	1,102.3	-1,108.6	411.2	363.9	47.29	8.696				
8,500.0	8,390.0	8,425.8	8,281.0	26.3	28.8	105.93	1,102.3	-1,108.6	411.6	364.1	47.54	8.659				
8,600.0	8,489.9	8,525.8	8,380.9	26.4	28.9	106.13	1,102.3	-1,108.6	412.0	364.3	47.79	8.623				

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Chevron C06 696 (NWNW S6-T6S-R96W) - Chevron 6-39D - DD - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,700.0	8,589.9	8,625.8	8,480.9	26.5	29.0	106.34	1,102.3	-1,108.6	412.5	364.4	48.04	8.587	
8,800.0	8,689.9	8,725.8	8,580.9	26.6	29.1	106.55	1,102.3	-1,108.6	412.9	364.6	48.29	8.551	
8,900.0	8,789.9	8,825.8	8,680.9	26.7	29.1	106.76	1,102.3	-1,108.6	413.4	364.8	48.54	8.516	
9,000.0	8,889.9	8,925.8	8,780.9	26.8	29.2	106.96	1,102.3	-1,108.6	413.8	365.0	48.79	8.481	
9,100.0	8,989.9	9,025.8	8,880.9	26.9	29.3	107.17	1,102.3	-1,108.6	414.3	365.2	49.05	8.447	
9,200.0	9,089.9	9,125.8	8,980.9	27.0	29.4	107.37	1,102.3	-1,108.6	414.7	365.4	49.30	8.412	
9,300.0	9,189.9	9,225.7	9,080.9	27.1	29.5	107.58	1,102.3	-1,108.6	415.2	365.7	49.56	8.378	
9,400.0	9,289.8	9,325.7	9,180.8	27.3	29.6	107.78	1,102.3	-1,108.6	415.7	365.9	49.81	8.345	
9,500.0	9,389.8	9,425.7	9,280.8	27.4	29.7	107.99	1,102.3	-1,108.6	416.2	366.1	50.07	8.312	
9,600.0	9,489.8	9,525.7	9,380.8	27.5	29.8	108.19	1,102.3	-1,108.6	416.6	366.3	50.33	8.279	
9,700.0	9,589.8	9,625.7	9,480.8	27.6	29.9	108.39	1,102.3	-1,108.6	417.1	366.5	50.58	8.246	
9,800.0	9,689.8	9,725.7	9,580.8	27.7	30.0	108.60	1,102.3	-1,108.6	417.6	366.8	50.84	8.214	
9,900.0	9,789.8	9,825.7	9,680.8	27.8	30.1	108.80	1,102.3	-1,108.6	418.1	367.0	51.10	8.182	
10,000.0	9,889.8	9,925.7	9,780.8	28.0	30.2	109.00	1,102.3	-1,108.6	418.6	367.3	51.36	8.151	
10,100.0	9,989.8	10,025.7	9,880.8	28.1	30.3	109.20	1,102.3	-1,108.6	419.1	367.5	51.62	8.119	
10,164.2	10,054.0	10,089.9	9,945.0	28.2	30.4	109.33	1,102.3	-1,108.6	419.5	367.7	51.79	8.100 SF	

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
4,400.0	4,335.0	4,390.7	4,319.7	15.0	15.5	52.07	1,632.1	-663.2	1,220.3	1,193.3	27.01	45.174		
4,500.0	4,433.3	4,488.9	4,415.9	15.3	15.9	51.92	1,623.7	-680.0	1,201.2	1,173.6	27.66	43.426		
4,600.0	4,531.6	4,587.0	4,512.2	15.7	16.2	51.76	1,615.2	-696.8	1,182.2	1,153.9	28.31	41.760		
4,700.0	4,630.0	4,685.1	4,608.5	16.1	16.6	51.60	1,606.7	-713.6	1,163.2	1,134.2	28.96	40.169		
4,800.0	4,728.3	4,783.2	4,704.8	16.4	17.0	51.43	1,598.2	-730.4	1,144.2	1,114.6	29.60	38.649		
4,900.0	4,826.6	4,881.3	4,801.1	16.8	17.4	51.25	1,589.7	-747.3	1,125.2	1,094.9	30.25	37.195		
5,000.0	4,924.9	4,979.5	4,897.4	17.2	17.7	51.07	1,581.3	-764.1	1,106.2	1,075.3	30.90	35.803		
5,100.0	5,023.2	5,077.6	4,993.7	17.5	18.1	50.88	1,572.8	-780.9	1,087.2	1,055.7	31.54	34.470		
5,200.0	5,121.5	5,175.7	5,090.0	17.9	18.5	50.69	1,564.3	-797.7	1,068.3	1,036.1	32.19	33.191		
5,300.0	5,219.8	5,273.8	5,186.3	18.3	18.8	50.49	1,555.8	-814.5	1,049.3	1,016.5	32.83	31.963		
5,400.0	5,318.1	5,371.9	5,282.6	18.6	19.2	50.28	1,547.3	-831.4	1,030.4	996.9	33.47	30.784		
5,500.0	5,416.4	5,470.1	5,378.9	19.0	19.6	50.07	1,538.8	-848.2	1,011.4	977.3	34.11	29.651		
5,600.0	5,514.8	5,568.2	5,475.2	19.4	20.0	49.84	1,530.4	-865.0	992.5	957.8	34.75	28.560		
5,700.0	5,613.1	5,666.3	5,571.5	19.7	20.3	49.61	1,521.9	-881.8	973.6	938.3	35.39	27.511		
5,800.0	5,711.4	5,764.4	5,667.8	20.1	20.7	49.37	1,513.4	-898.6	954.8	918.7	36.03	26.500		
5,900.0	5,809.7	5,862.5	5,764.1	20.5	21.1	49.12	1,504.9	-915.4	935.9	899.2	36.66	25.526		
6,000.0	5,908.0	5,960.7	5,860.4	20.8	21.5	48.86	1,496.4	-932.3	917.1	879.8	37.30	24.587		
6,100.0	6,006.3	6,058.8	5,956.7	21.2	21.8	48.59	1,487.9	-949.1	898.2	860.3	37.93	23.681		
6,200.0	6,104.6	6,156.9	6,053.0	21.6	22.2	48.30	1,479.5	-965.9	879.4	840.9	38.56	22.806		
6,300.0	6,202.9	6,255.0	6,149.3	21.9	22.6	48.00	1,471.0	-982.7	860.6	821.5	39.19	21.962		
6,400.0	6,301.2	6,353.2	6,245.6	22.3	23.0	47.69	1,462.5	-999.5	841.9	802.1	39.81	21.145		
6,500.0	6,399.6	6,451.3	6,341.9	22.7	23.3	47.37	1,454.0	-1,016.4	823.2	782.7	40.44	20.356		
6,600.0	6,497.9	6,549.4	6,438.1	23.0	23.7	47.03	1,445.5	-1,033.2	804.4	763.4	41.06	19.593		
6,700.0	6,596.2	6,647.5	6,534.4	23.4	24.1	46.68	1,437.1	-1,050.0	785.8	744.1	41.67	18.855		
6,800.0	6,694.5	6,745.6	6,630.7	23.8	24.5	46.31	1,428.6	-1,066.8	767.1	724.8	42.29	18.141		
6,900.0	6,792.8	6,843.8	6,727.0	24.1	24.8	45.88	1,420.1	-1,083.6	748.5	705.6	42.90	17.446		
7,000.0	6,891.5	6,937.5	6,819.1	24.4	25.2	45.17	1,412.3	-1,099.1	731.7	688.2	43.48	16.828		
7,100.0	6,990.7	7,029.6	6,910.2	24.7	25.4	44.54	1,405.8	-1,111.9	718.2	674.2	43.96	16.339		
7,200.0	7,090.3	7,122.5	7,002.3	24.9	25.7	44.00	1,400.7	-1,122.1	708.1	663.8	44.35	15.968		
7,300.0	7,190.1	7,215.8	7,095.3	25.0	25.9	43.54	1,396.9	-1,129.7	701.5	656.8	44.65	15.712		
7,400.0	7,290.1	7,309.6	7,188.8	25.1	26.0	43.18	1,394.4	-1,134.6	698.3	653.4	44.86	15.565		
7,500.0	7,390.1	7,403.5	7,282.7	25.2	26.1	108.36	1,393.3	-1,136.7	697.7	652.6	45.06	15.484		
7,512.2	7,402.3	7,415.0	7,294.2	25.2	26.1	108.36	1,393.3	-1,136.8	697.7	652.6	45.08	15.475 CC		
7,600.0	7,490.1	7,501.8	7,381.1	25.3	26.2	108.40	1,393.3	-1,136.8	697.8	652.5	45.27	15.413 ES		
7,700.0	7,590.0	7,601.8	7,481.0	25.4	26.3	108.48	1,393.3	-1,136.8	698.1	652.6	45.50	15.342		
7,800.0	7,690.0	7,701.8	7,581.0	25.5	26.4	108.59	1,393.3	-1,136.8	698.6	652.9	45.74	15.272		
7,900.0	7,790.0	7,801.8	7,681.0	25.6	26.4	108.71	1,393.3	-1,136.8	699.1	653.1	45.99	15.202		
8,000.0	7,890.0	7,901.8	7,781.0	25.7	26.5	108.83	1,393.3	-1,136.8	699.6	653.4	46.23	15.133		
8,100.0	7,990.0	8,001.8	7,881.0	25.8	26.6	108.95	1,393.3	-1,136.8	700.1	653.6	46.47	15.064		
8,200.0	8,090.0	8,101.8	7,981.0	25.9	26.7	109.07	1,393.3	-1,136.8	700.6	653.9	46.72	14.996		
8,300.0	8,190.0	8,201.7	8,081.0	26.0	26.8	109.19	1,393.3	-1,136.8	701.1	654.2	46.97	14.928		
8,400.0	8,290.0	8,301.7	8,181.0	26.2	26.9	109.31	1,393.3	-1,136.8	701.6	654.4	47.21	14.860		
8,500.0	8,390.0	8,401.7	8,281.0	26.3	27.0	109.43	1,393.3	-1,136.8	702.1	654.7	47.46	14.793		
8,600.0	8,489.9	8,501.7	8,380.9	26.4	27.1	109.55	1,393.3	-1,136.8	702.7	655.0	47.71	14.727		
8,700.0	8,589.9	8,601.7	8,480.9	26.5	27.2	109.67	1,393.3	-1,136.8	703.2	655.2	47.96	14.661		
8,800.0	8,689.9	8,701.7	8,580.9	26.6	27.3	109.79	1,393.3	-1,136.8	703.7	655.5	48.22	14.595		
8,900.0	8,789.9	8,801.7	8,680.9	26.7	27.4	109.91	1,393.3	-1,136.8	704.2	655.8	48.47	14.529		
9,000.0	8,889.9	8,901.7	8,780.9	26.8	27.5	110.03	1,393.3	-1,136.8	704.8	656.0	48.72	14.465		
9,100.0	8,989.9	9,001.6	8,880.9	26.9	27.6	110.15	1,393.3	-1,136.8	705.3	656.3	48.98	14.400		
9,200.0	9,089.9	9,101.6	8,980.9	27.0	27.7	110.27	1,393.3	-1,136.8	705.8	656.6	49.23	14.336		
9,300.0	9,189.9	9,201.6	9,080.9	27.1	27.8	110.38	1,393.3	-1,136.8	706.4	656.9	49.49	14.273		
9,400.0	9,289.8	9,301.6	9,180.8	27.3	27.9	110.50	1,393.3	-1,136.8	706.9	657.2	49.75	14.210		

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

Cathedral Energy Services

Anticollision Report

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Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Chevron C06 696 (NWNW S6-T6S-R96W) - Chevron 6-40D - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,500.0	9,389.8	9,401.6	9,280.8	27.4	28.0	110.62	1,393.3	-1,136.8	707.5	657.5	50.01	14.147		
9,600.0	9,489.8	9,501.6	9,380.8	27.5	28.1	110.74	1,393.3	-1,136.8	708.0	657.8	50.27	14.085		
9,700.0	9,589.8	9,601.6	9,480.8	27.6	28.2	110.86	1,393.3	-1,136.8	708.6	658.1	50.53	14.023		
9,800.0	9,689.8	9,701.6	9,580.8	27.7	28.3	110.97	1,393.3	-1,136.8	709.1	658.3	50.79	13.962		
9,900.0	9,789.8	9,801.5	9,680.8	27.8	28.4	111.09	1,393.3	-1,136.8	709.7	658.6	51.05	13.901		
10,000.0	9,889.8	9,901.5	9,780.8	28.0	28.5	111.21	1,393.3	-1,136.8	710.3	658.9	51.32	13.841		
10,100.0	9,989.8	10,001.5	9,880.8	28.1	28.6	111.32	1,393.3	-1,136.8	710.8	659.2	51.58	13.781		
10,164.2	10,054.0	10,065.8	9,945.0	28.2	28.7	111.40	1,393.3	-1,136.8	711.2	659.4	51.75	13.743 SF		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
5,900.0	5,809.7	5,816.3	5,737.5	20.5	19.4	52.28	1,786.0	-873.8	1,211.2	1,174.8	36.33	33.337		
6,000.0	5,908.0	5,915.3	5,835.0	20.8	19.7	52.16	1,782.2	-890.4	1,196.8	1,159.8	36.97	32.375		
6,100.0	6,006.3	6,014.2	5,932.4	21.2	20.0	52.03	1,778.4	-907.0	1,182.5	1,144.9	37.60	31.446		
6,200.0	6,104.6	6,113.1	6,029.9	21.6	20.4	51.91	1,774.5	-923.6	1,168.1	1,129.9	38.24	30.550		
6,300.0	6,202.9	6,212.1	6,127.3	21.9	20.7	51.78	1,770.7	-940.2	1,153.8	1,114.9	38.87	29.683		
6,400.0	6,301.2	6,311.0	6,224.8	22.3	21.1	51.65	1,766.8	-956.7	1,139.4	1,099.9	39.50	28.845		
6,500.0	6,399.6	6,409.9	6,322.2	22.7	21.4	51.51	1,763.0	-973.3	1,125.1	1,085.0	40.13	28.035		
6,600.0	6,497.9	6,508.9	6,419.7	23.0	21.8	51.38	1,759.2	-989.9	1,110.8	1,070.0	40.76	27.250		
6,700.0	6,596.2	6,607.8	6,517.2	23.4	22.1	51.23	1,755.3	-1,006.5	1,096.5	1,055.1	41.39	26.490		
6,800.0	6,694.5	6,706.7	6,614.6	23.8	22.5	51.09	1,751.5	-1,023.1	1,082.1	1,040.1	42.02	25.754		
6,900.0	6,792.8	6,805.7	6,712.1	24.1	22.8	50.91	1,747.7	-1,039.7	1,067.9	1,025.2	42.65	25.039		
7,000.0	6,891.5	6,904.7	6,809.7	24.4	23.2	50.46	1,743.8	-1,056.3	1,054.9	1,011.7	43.24	24.396		
7,100.0	6,990.7	7,000.0	6,903.7	24.7	23.5	49.96	1,740.3	-1,071.4	1,044.4	1,000.7	43.74	23.877		
7,200.0	7,090.3	7,095.0	6,997.8	24.9	23.7	49.52	1,737.5	-1,083.7	1,036.6	992.4	44.13	23.487		
7,300.0	7,190.1	7,190.0	7,092.4	25.0	23.9	49.15	1,735.4	-1,092.8	1,031.5	987.1	44.44	23.211		
7,400.0	7,290.1	7,285.4	7,187.6	25.1	24.1	48.86	1,733.9	-1,099.0	1,029.2	984.5	44.66	23.044		
7,500.0	7,390.1	7,381.0	7,283.1	25.2	24.2	114.05	1,733.2	-1,102.0	1,028.8	984.0	44.86	22.936		
7,507.9	7,397.9	7,388.6	7,290.7	25.2	24.2	114.05	1,733.2	-1,102.1	1,028.8	983.9	44.87	22.928 CC		
7,600.0	7,490.1	7,479.0	7,381.1	25.3	24.3	114.06	1,733.2	-1,102.4	1,029.0	983.9	45.07	22.832 ES		
7,700.0	7,590.0	7,579.0	7,481.0	25.4	24.4	114.11	1,733.2	-1,102.4	1,029.4	984.1	45.30	22.726		
7,800.0	7,690.0	7,679.0	7,581.0	25.5	24.5	114.18	1,733.2	-1,102.4	1,030.0	984.5	45.53	22.622		
7,900.0	7,790.0	7,779.0	7,681.0	25.6	24.6	114.26	1,733.2	-1,102.4	1,030.7	984.9	45.77	22.517		
8,000.0	7,890.0	7,878.9	7,781.0	25.7	24.7	114.34	1,733.2	-1,102.4	1,031.3	985.3	46.01	22.413		
8,100.0	7,990.0	7,978.9	7,881.0	25.8	24.8	114.42	1,733.2	-1,102.4	1,031.9	985.7	46.25	22.310		
8,200.0	8,090.0	8,078.9	7,981.0	25.9	24.9	114.50	1,733.2	-1,102.4	1,032.6	986.1	46.50	22.207		
8,300.0	8,190.0	8,178.9	8,081.0	26.0	25.0	114.58	1,733.2	-1,102.4	1,033.2	986.5	46.74	22.105		
8,400.0	8,290.0	8,278.9	8,181.0	26.2	25.1	114.66	1,733.2	-1,102.4	1,033.9	986.9	46.99	22.003		
8,500.0	8,390.0	8,378.9	8,281.0	26.3	25.2	114.73	1,733.2	-1,102.4	1,034.5	987.3	47.24	21.902		
8,600.0	8,489.9	8,478.9	8,380.9	26.4	25.3	114.81	1,733.2	-1,102.4	1,035.2	987.7	47.48	21.801		
8,700.0	8,589.9	8,578.9	8,480.9	26.5	25.4	114.89	1,733.2	-1,102.4	1,035.8	988.1	47.73	21.701		
8,800.0	8,689.9	8,678.8	8,580.9	26.6	25.5	114.97	1,733.2	-1,102.4	1,036.5	988.5	47.98	21.601		
8,900.0	8,789.9	8,778.8	8,680.9	26.7	25.6	115.05	1,733.2	-1,102.4	1,037.2	988.9	48.23	21.502		
9,000.0	8,889.9	8,878.8	8,780.9	26.8	25.7	115.12	1,733.2	-1,102.4	1,037.8	989.3	48.49	21.404		
9,100.0	8,989.9	8,978.8	8,880.9	26.9	25.8	115.20	1,733.2	-1,102.4	1,038.5	989.7	48.74	21.306		
9,200.0	9,089.9	9,078.8	8,980.9	27.0	25.9	115.28	1,733.2	-1,102.4	1,039.1	990.1	49.00	21.209		
9,300.0	9,189.9	9,178.8	9,080.9	27.1	26.0	115.36	1,733.2	-1,102.4	1,039.8	990.6	49.25	21.112		
9,400.0	9,289.8	9,278.8	9,180.8	27.3	26.1	115.43	1,733.2	-1,102.4	1,040.5	991.0	49.51	21.016		
9,500.0	9,389.8	9,378.8	9,280.8	27.4	26.2	115.51	1,733.2	-1,102.4	1,041.1	991.4	49.77	20.920		
9,600.0	9,489.8	9,478.7	9,380.8	27.5	26.3	115.59	1,733.2	-1,102.4	1,041.8	991.8	50.03	20.825		
9,700.0	9,589.8	9,578.7	9,480.8	27.6	26.4	115.67	1,733.2	-1,102.4	1,042.5	992.2	50.29	20.731		
9,800.0	9,689.8	9,678.7	9,580.8	27.7	26.5	115.74	1,733.2	-1,102.4	1,043.2	992.6	50.55	20.637		
9,900.0	9,789.8	9,778.7	9,680.8	27.8	26.7	115.82	1,733.2	-1,102.4	1,043.8	993.0	50.81	20.544		
10,000.0	9,889.8	9,878.7	9,780.8	28.0	26.8	115.90	1,733.2	-1,102.4	1,044.5	993.4	51.07	20.451		
10,100.0	9,989.8	9,978.7	9,880.8	28.1	26.9	115.97	1,733.2	-1,102.4	1,045.2	993.9	51.34	20.359		
10,164.2	10,054.0	10,042.9	9,945.0	28.2	27.0	116.02	1,733.2	-1,102.4	1,045.6	994.1	51.51	20.301 SF		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	36.89	24.0	18.0	30.1					
100.0	100.0	100.0	100.0	0.1	0.1	36.89	24.0	18.0	30.1	29.8	0.27	110.402		
200.0	200.0	200.0	200.0	0.3	0.3	36.89	24.0	18.0	30.1	29.4	0.62	48.379		
300.0	300.0	300.4	300.4	0.5	0.5	97.85	22.4	18.7	29.4	28.4	0.98	30.073		
347.8	347.7	348.2	348.1	0.6	0.6	105.63	20.5	19.6	29.1	28.0	1.16	25.072 CC, ES		
400.0	399.8	400.1	400.0	0.7	0.7	117.38	17.6	20.8	29.8	28.4	1.36	21.834		
500.0	499.5	498.6	498.1	0.9	0.9	143.10	9.9	24.2	37.0	35.2	1.75	21.118 SF		
600.0	598.7	596.4	595.4	1.2	1.1	160.65	1.2	27.9	52.9	50.8	2.10	25.223		
700.0	697.5	693.5	692.0	1.5	1.4	170.17	-7.3	31.6	74.7	72.3	2.42	30.815		
800.0	795.8	789.8	788.0	1.8	1.6	175.50	-15.8	35.2	100.2	97.4	2.76	36.293		
900.0	894.1	886.2	883.9	2.2	1.8	178.68	-24.3	38.9	126.2	123.1	3.10	40.681		
1,000.0	992.4	982.6	979.8	2.5	2.0	-179.23	-32.8	42.6	152.5	149.1	3.45	44.217		
1,100.0	1,090.7	1,078.9	1,075.7	2.9	2.3	-177.75	-41.2	46.2	178.9	175.1	3.80	47.111		
1,200.0	1,189.0	1,175.3	1,171.6	3.3	2.5	-176.66	-49.7	49.9	205.5	201.3	4.15	49.516		
1,300.0	1,287.4	1,271.6	1,267.5	3.6	2.7	-175.81	-58.2	53.6	232.0	227.5	4.50	51.543		
1,400.0	1,385.7	1,368.0	1,363.4	4.0	3.0	-175.14	-66.7	57.2	258.6	253.8	4.85	53.272		
1,500.0	1,484.0	1,464.3	1,459.4	4.3	3.2	-174.59	-75.2	60.9	285.2	280.0	5.21	54.763		
1,600.0	1,582.3	1,560.7	1,555.3	4.7	3.4	-174.14	-83.7	64.6	311.9	306.3	5.56	56.062		
1,700.0	1,680.6	1,657.1	1,651.2	5.1	3.7	-173.76	-92.1	68.2	338.6	332.6	5.92	57.203		
1,800.0	1,778.9	1,753.4	1,747.1	5.4	3.9	-173.43	-100.6	71.9	365.2	359.0	6.27	58.213		
1,900.0	1,877.2	1,849.8	1,843.0	5.8	4.1	-173.15	-109.1	75.6	391.9	385.3	6.63	59.114		
2,000.0	1,975.5	1,946.1	1,938.9	6.2	4.4	-172.90	-117.6	79.2	418.6	411.6	6.99	59.921		
2,100.0	2,073.9	2,042.5	2,034.8	6.5	4.6	-172.69	-126.1	82.9	445.3	438.0	7.34	60.648		
2,200.0	2,172.2	2,138.8	2,130.8	6.9	4.8	-172.50	-134.6	86.6	472.0	464.3	7.70	61.308		
2,300.0	2,270.5	2,235.2	2,226.7	7.3	5.1	-172.32	-143.0	90.2	498.7	490.7	8.06	61.908		
2,400.0	2,368.8	2,331.6	2,322.6	7.6	5.3	-172.17	-151.5	93.9	525.4	517.0	8.41	62.457		
2,500.0	2,467.1	2,427.9	2,418.5	8.0	5.5	-172.03	-160.0	97.5	552.2	543.4	8.77	62.960		
2,600.0	2,565.4	2,524.3	2,514.4	8.4	5.8	-171.90	-168.5	101.2	578.9	569.7	9.13	63.424		
2,700.0	2,663.7	2,620.6	2,610.3	8.7	6.0	-171.79	-177.0	104.9	605.6	596.1	9.48	63.852		
2,800.0	2,762.0	2,717.0	2,706.2	9.1	6.2	-171.68	-185.5	108.5	632.3	622.5	9.84	64.249		
2,900.0	2,860.3	2,813.3	2,802.1	9.5	6.4	-171.59	-193.9	112.2	659.0	648.8	10.20	64.618		
3,000.0	2,958.7	2,909.7	2,898.1	9.8	6.7	-171.50	-202.4	115.9	685.8	675.2	10.56	64.961		
3,100.0	3,057.0	3,006.1	2,994.0	10.2	6.9	-171.42	-210.9	119.5	712.5	701.6	10.91	65.282		
3,200.0	3,155.3	3,102.4	3,089.9	10.6	7.1	-171.34	-219.4	123.2	739.2	728.0	11.27	65.582		
3,300.0	3,253.6	3,198.8	3,185.8	10.9	7.4	-171.27	-227.9	126.9	766.0	754.3	11.63	65.863		
3,400.0	3,351.9	3,295.1	3,281.7	11.3	7.6	-171.20	-236.4	130.5	792.7	780.7	11.99	66.128		
3,500.0	3,450.2	3,391.5	3,377.6	11.7	7.8	-171.14	-244.8	134.2	819.4	807.1	12.35	66.376		
3,600.0	3,548.5	3,487.8	3,473.5	12.0	8.1	-171.08	-253.3	137.9	846.2	833.5	12.70	66.611		
3,700.0	3,646.8	3,584.2	3,569.4	12.4	8.3	-171.03	-261.8	141.5	872.9	859.8	13.06	66.833		
3,800.0	3,745.1	3,680.6	3,665.4	12.8	8.5	-170.98	-270.3	145.2	899.6	886.2	13.42	67.043		
3,900.0	3,843.5	3,776.9	3,761.3	13.1	8.8	-170.93	-278.8	148.9	926.4	912.6	13.78	67.242		
4,000.0	3,941.8	3,873.3	3,857.2	13.5	9.0	-170.88	-287.3	152.5	953.1	939.0	14.13	67.431		
4,100.0	4,040.1	3,969.6	3,953.1	13.9	9.2	-170.84	-295.8	156.2	979.8	965.3	14.49	67.610		
4,200.0	4,138.4	4,066.0	4,049.0	14.2	9.5	-170.80	-304.2	159.8	1,006.6	991.7	14.85	67.780		
4,300.0	4,236.7	4,162.3	4,144.9	14.6	9.7	-170.76	-312.7	163.5	1,033.3	1,018.1	15.21	67.943		
4,400.0	4,335.0	4,258.7	4,240.8	15.0	9.9	-170.72	-321.2	167.2	1,060.0	1,044.5	15.57	68.098		
4,500.0	4,433.3	4,355.1	4,336.7	15.3	10.2	-170.69	-329.7	170.8	1,086.8	1,070.9	15.92	68.246		
4,600.0	4,531.6	4,451.4	4,432.7	15.7	10.4	-170.65	-338.2	174.5	1,113.5	1,097.2	16.28	68.387		
4,700.0	4,630.0	4,547.8	4,528.6	16.1	10.6	-170.62	-346.7	178.2	1,140.3	1,123.6	16.64	68.522		
4,800.0	4,728.3	4,644.1	4,624.5	16.4	10.9	-170.59	-355.1	181.8	1,167.0	1,150.0	17.00	68.652		
4,900.0	4,826.6	4,740.5	4,720.4	16.8	11.1	-170.56	-363.6	185.5	1,193.7	1,176.4	17.36	68.776		
5,000.0	4,924.9	4,836.8	4,816.3	17.2	11.3	-170.53	-372.1	189.2	1,220.5	1,202.8	17.72	68.895		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Sec 6 T6S R96W (F06 696) - Chevron 6-20D - DD - Plan #2		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
							+N/-S (ft)	+E/-W (ft)									
0.0	0.0	0.0	0.0	0.0	0.0	36.89	36.1	27.1	45.1								
100.0	100.0	100.0	100.0	0.1	0.1	36.89	36.1	27.1	45.1	44.8	0.27	165.603					
200.0	200.0	200.0	200.0	0.3	0.3	36.89	36.1	27.1	45.1	44.5	0.62	72.568 CC					
300.0	300.0	300.0	300.0	0.5	0.5	93.65	36.1	27.1	45.2	44.2	0.97	46.365 ES					
400.0	399.8	399.8	399.8	0.7	0.7	100.18	36.1	27.1	45.8	44.5	1.34	34.096					
500.0	499.5	499.5	499.5	0.9	0.8	110.37	36.1	27.1	48.1	46.4	1.73	27.734					
600.0	598.7	597.9	597.9	1.2	1.0	124.02	34.9	28.3	54.3	52.2	2.13	25.476 SF					
700.0	697.5	694.6	694.5	1.5	1.2	138.53	31.5	31.8	67.6	65.1	2.50	27.030					
800.0	795.8	790.3	789.9	1.8	1.4	150.06	26.1	37.4	88.4	85.5	2.83	31.204					
900.0	894.1	886.8	885.9	2.2	1.6	157.36	20.5	43.2	111.8	108.6	3.15	35.439					
1,000.0	992.4	983.2	982.0	2.5	1.8	162.11	14.8	49.1	136.3	132.8	3.48	39.202					
1,100.0	1,090.7	1,079.6	1,078.1	2.9	2.0	165.41	9.1	55.0	161.5	157.7	3.80	42.457					
1,200.0	1,189.0	1,176.0	1,174.2	3.3	2.2	167.82	3.5	60.9	187.0	182.9	4.13	45.260					
1,300.0	1,287.4	1,272.5	1,270.3	3.6	2.4	169.65	-2.2	66.8	212.8	208.3	4.46	47.682					
1,400.0	1,385.7	1,368.9	1,366.3	4.0	2.6	171.08	-7.9	72.6	238.7	233.9	4.79	49.786					
1,500.0	1,484.0	1,465.3	1,462.4	4.3	2.8	172.24	-13.5	78.5	264.8	259.6	5.13	51.626					
1,600.0	1,582.3	1,561.7	1,558.5	4.7	3.1	173.19	-19.2	84.4	290.9	285.4	5.46	53.247					
1,700.0	1,680.6	1,658.2	1,654.6	5.1	3.3	173.98	-24.9	90.3	317.1	311.3	5.80	54.683					
1,800.0	1,778.9	1,754.6	1,750.7	5.4	3.5	174.65	-30.5	96.2	343.3	337.2	6.13	55.964					
1,900.0	1,877.2	1,851.0	1,846.7	5.8	3.7	175.22	-36.2	102.0	369.6	363.1	6.47	57.112					
2,000.0	1,975.5	1,947.4	1,942.8	6.2	3.9	175.72	-41.9	107.9	395.9	389.1	6.81	58.148					
2,100.0	2,073.9	2,043.9	2,038.9	6.5	4.1	176.16	-47.5	113.8	422.2	415.0	7.15	59.085					
2,200.0	2,172.2	2,140.3	2,135.0	6.9	4.4	176.55	-53.2	119.7	448.5	441.1	7.48	59.938					
2,300.0	2,270.5	2,236.7	2,231.1	7.3	4.6	176.89	-58.9	125.6	474.9	467.1	7.82	60.718					
2,400.0	2,368.8	2,333.1	2,327.1	7.6	4.8	177.20	-64.5	131.4	501.3	493.1	8.16	61.432					
2,500.0	2,467.1	2,429.6	2,423.2	8.0	5.0	177.47	-70.2	137.3	527.7	519.2	8.50	62.089					
2,600.0	2,565.4	2,526.0	2,519.3	8.4	5.2	177.72	-75.9	143.2	554.1	545.2	8.84	62.696					
2,700.0	2,663.7	2,622.4	2,615.4	8.7	5.5	177.95	-81.6	149.1	580.5	571.3	9.18	63.258					
2,800.0	2,762.0	2,718.8	2,711.5	9.1	5.7	178.16	-87.2	155.0	606.9	597.4	9.52	63.779					
2,900.0	2,860.3	2,815.3	2,807.5	9.5	5.9	178.35	-92.9	160.8	633.3	623.5	9.85	64.265					
3,000.0	2,958.7	2,911.7	2,903.6	9.8	6.1	178.52	-98.6	166.7	659.7	649.5	10.19	64.718					
3,100.0	3,057.0	3,008.1	2,999.7	10.2	6.3	178.68	-104.2	172.6	686.2	675.6	10.53	65.142					
3,200.0	3,155.3	3,104.5	3,095.8	10.6	6.6	178.83	-109.9	178.5	712.6	701.7	10.87	65.539					
3,300.0	3,253.6	3,201.0	3,191.9	10.9	6.8	178.97	-115.6	184.4	739.1	727.8	11.21	65.911					
3,400.0	3,351.9	3,297.4	3,287.9	11.3	7.0	179.10	-121.2	190.2	765.5	753.9	11.55	66.262					
3,500.0	3,450.2	3,393.8	3,384.0	11.7	7.2	179.22	-126.9	196.1	791.9	780.1	11.89	66.593					
3,600.0	3,548.5	3,490.2	3,480.1	12.0	7.4	179.33	-132.6	202.0	818.4	806.2	12.23	66.905					
3,700.0	3,646.8	3,586.7	3,576.2	12.4	7.7	179.44	-138.2	207.9	844.9	832.3	12.57	67.200					
3,800.0	3,745.1	3,683.1	3,672.2	12.8	7.9	179.54	-143.9	213.7	871.3	858.4	12.91	67.480					
3,900.0	3,843.5	3,779.5	3,768.3	13.1	8.1	179.63	-149.6	219.6	897.8	884.5	13.25	67.745					
4,000.0	3,941.8	3,876.0	3,864.4	13.5	8.3	179.72	-155.2	225.5	924.2	910.6	13.59	67.996					
4,100.0	4,040.1	3,972.4	3,960.5	13.9	8.5	179.80	-160.9	231.4	950.7	936.8	13.93	68.236					
4,200.0	4,138.4	4,068.8	4,056.6	14.2	8.8	179.88	-166.6	237.3	977.2	962.9	14.27	68.464					
4,300.0	4,236.7	4,165.2	4,152.6	14.6	9.0	179.96	-172.2	243.1	1,003.6	989.0	14.61	68.681					
4,400.0	4,335.0	4,261.7	4,248.7	15.0	9.2	-179.97	-177.9	249.0	1,030.1	1,015.2	14.95	68.888					
4,500.0	4,433.3	4,358.1	4,344.8	15.3	9.4	-179.91	-183.6	254.9	1,056.6	1,041.3	15.29	69.086					
4,600.0	4,531.6	4,454.5	4,440.9	15.7	9.6	-179.84	-189.2	260.8	1,083.0	1,067.4	15.63	69.276					
4,700.0	4,630.0	4,550.9	4,537.0	16.1	9.9	-179.78	-194.9	266.7	1,109.5	1,093.5	15.97	69.457					
4,800.0	4,728.3	4,647.4	4,633.0	16.4	10.1	-179.72	-200.6	272.5	1,136.0	1,119.7	16.31	69.631					
4,900.0	4,826.6	4,743.8	4,729.1	16.8	10.3	-179.67	-206.2	278.4	1,162.5	1,145.8	16.66	69.797					
5,000.0	4,924.9	4,840.2	4,825.2	17.2	10.5	-179.61	-211.9	284.3	1,188.9	1,172.0	17.00	69.957					
5,100.0	5,023.2	4,936.6	4,921.3	17.5	10.7	-179.56	-217.6	290.2	1,215.4	1,198.1	17.34	70.110					

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

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Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	36.89	12.0	9.0	15.0					
100.0	100.0	100.0	100.0	0.1	0.1	36.89	12.0	9.0	15.0	14.8	0.27	55.201		
200.0	200.0	200.0	200.0	0.3	0.3	36.89	12.0	9.0	15.0	14.4	0.62	24.189		
200.3	200.3	200.3	200.3	0.3	0.3	91.44	12.0	9.0	15.0	14.4	0.62	24.144		
300.0	300.0	300.2	300.2	0.5	0.5	103.81	10.3	9.3	14.2	13.2	0.98	14.550		
327.5	327.4	327.7	327.7	0.5	0.5	111.99	9.2	9.5	14.1	13.0	1.08	13.002 CC, ES		
400.0	399.8	399.9	399.7	0.7	0.7	140.44	5.2	10.3	16.0	14.7	1.35	11.852 SF		
500.0	499.5	498.2	497.7	0.9	0.9	170.99	-3.2	11.9	27.6	25.9	1.71	16.154		
600.0	598.7	594.8	593.6	1.2	1.2	-175.33	-14.7	14.0	48.3	46.2	2.07	23.361		
700.0	697.5	690.7	688.5	1.5	1.4	-169.34	-28.1	16.6	75.1	72.6	2.43	30.951		
800.0	795.8	786.2	783.0	1.8	1.7	-166.83	-41.5	19.1	104.7	101.9	2.80	37.397		
900.0	894.1	881.6	877.4	2.2	2.0	-165.45	-55.0	21.6	134.5	131.3	3.18	42.293		
1,000.0	992.4	977.0	971.8	2.5	2.3	-164.58	-68.4	24.1	164.3	160.8	3.56	46.116		
1,100.0	1,090.7	1,072.4	1,066.3	2.9	2.6	-163.97	-81.8	26.7	194.2	190.3	3.95	49.175		
1,200.0	1,189.0	1,167.8	1,160.7	3.3	2.8	-163.53	-95.2	29.2	224.1	219.8	4.34	51.676		
1,300.0	1,287.4	1,263.2	1,255.1	3.6	3.1	-163.19	-108.6	31.7	254.0	249.3	4.73	53.757		
1,400.0	1,385.7	1,358.7	1,349.5	4.0	3.4	-162.92	-122.0	34.2	283.9	278.8	5.11	55.514		
1,500.0	1,484.0	1,454.1	1,444.0	4.3	3.7	-162.70	-135.5	36.7	313.9	308.3	5.50	57.017		
1,600.0	1,582.3	1,549.5	1,538.4	4.7	4.0	-162.52	-148.9	39.3	343.8	337.9	5.90	58.316		
1,700.0	1,680.6	1,644.9	1,632.8	5.1	4.3	-162.37	-162.3	41.8	373.7	367.4	6.29	59.451		
1,800.0	1,778.9	1,740.3	1,727.3	5.4	4.6	-162.25	-175.7	44.3	403.6	397.0	6.68	60.450		
1,900.0	1,877.2	1,835.7	1,821.7	5.8	4.9	-162.13	-189.1	46.8	433.6	426.5	7.07	61.336		
2,000.0	1,975.5	1,931.1	1,916.1	6.2	5.2	-162.04	-202.6	49.4	463.5	456.0	7.46	62.128		
2,100.0	2,073.9	2,026.5	2,010.6	6.5	5.4	-161.95	-216.0	51.9	493.4	485.6	7.85	62.839		
2,200.0	2,172.2	2,122.0	2,105.0	6.9	5.7	-161.88	-229.4	54.4	523.4	515.1	8.24	63.481		
2,300.0	2,270.5	2,217.4	2,199.4	7.3	6.0	-161.81	-242.8	56.9	553.3	544.6	8.64	64.064		
2,400.0	2,368.8	2,312.8	2,293.9	7.6	6.3	-161.75	-256.2	59.4	583.2	574.2	9.03	64.596		
2,500.0	2,467.1	2,408.2	2,388.3	8.0	6.6	-161.70	-269.6	62.0	613.1	603.7	9.42	65.083		
2,600.0	2,565.4	2,503.6	2,482.7	8.4	6.9	-161.65	-283.1	64.5	643.1	633.3	9.81	65.530		
2,700.0	2,663.7	2,599.0	2,577.2	8.7	7.2	-161.60	-296.5	67.0	673.0	662.8	10.21	65.942		
2,800.0	2,762.0	2,694.4	2,671.6	9.1	7.5	-161.56	-309.9	69.5	703.0	692.4	10.60	66.323		
2,900.0	2,860.3	2,789.8	2,766.0	9.5	7.8	-161.53	-323.3	72.0	732.9	721.9	10.99	66.677		
3,000.0	2,958.7	2,885.3	2,860.5	9.8	8.1	-161.49	-336.7	74.6	762.8	751.4	11.38	67.006		
3,100.0	3,057.0	2,980.7	2,954.9	10.2	8.3	-161.46	-350.2	77.1	792.8	781.0	11.78	67.312		
3,200.0	3,155.3	3,076.1	3,049.3	10.6	8.6	-161.43	-363.6	79.6	822.7	810.5	12.17	67.599		
3,300.0	3,253.6	3,171.5	3,143.7	10.9	8.9	-161.40	-377.0	82.1	852.6	840.1	12.56	67.868		
3,400.0	3,351.9	3,266.9	3,238.2	11.3	9.2	-161.38	-390.4	84.7	882.6	869.6	12.96	68.120		
3,500.0	3,450.2	3,362.3	3,332.6	11.7	9.5	-161.35	-403.8	87.2	912.5	899.2	13.35	68.357		
3,600.0	3,548.5	3,457.7	3,427.0	12.0	9.8	-161.33	-417.2	89.7	942.4	928.7	13.74	68.580		
3,700.0	3,646.8	3,553.2	3,521.5	12.4	10.1	-161.31	-430.7	92.2	972.4	958.2	14.14	68.791		
3,800.0	3,745.1	3,648.6	3,615.9	12.8	10.4	-161.29	-444.1	94.7	1,002.3	987.8	14.53	68.990		
3,900.0	3,843.5	3,744.0	3,710.3	13.1	10.7	-161.27	-457.5	97.3	1,032.3	1,017.3	14.92	69.178		
4,000.0	3,941.8	3,839.4	3,804.8	13.5	11.0	-161.25	-470.9	99.8	1,062.2	1,046.9	15.31	69.357		
4,100.0	4,040.1	3,934.8	3,899.2	13.9	11.2	-161.24	-484.3	102.3	1,092.1	1,076.4	15.71	69.527		
4,200.0	4,138.4	4,030.2	3,993.6	14.2	11.5	-161.22	-497.8	104.8	1,122.1	1,106.0	16.10	69.688		
4,300.0	4,236.7	4,125.6	4,088.1	14.6	11.8	-161.20	-511.2	107.4	1,152.0	1,135.5	16.49	69.842		
4,400.0	4,335.0	4,221.0	4,182.5	15.0	12.1	-161.19	-524.6	109.9	1,181.9	1,165.0	16.89	69.988		
4,500.0	4,433.3	4,316.5	4,276.9	15.3	12.4	-161.18	-538.0	112.4	1,211.9	1,194.6	17.28	70.128		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-22D - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	36.47	48.4	35.8	60.2					
100.0	100.0	100.0	100.0	0.1	0.1	36.47	48.4	35.8	60.2	60.0	0.27	221.259		
200.0	200.0	200.0	200.0	0.3	0.3	36.47	48.4	35.8	60.2	59.6	0.62	96.956 CC		
300.0	300.0	300.0	300.0	0.5	0.5	92.67	48.4	35.8	60.3	59.3	0.97	61.898 ES		
400.0	399.8	399.8	399.8	0.7	0.7	97.59	48.4	35.8	60.8	59.4	1.34	45.228		
500.0	499.5	499.5	499.5	0.9	0.8	105.47	48.4	35.8	62.5	60.8	1.74	35.959		
600.0	598.7	598.7	598.7	1.2	1.0	115.45	48.4	35.8	66.8	64.7	2.15	31.021		
700.0	697.5	697.5	697.5	1.5	1.2	126.10	48.4	35.8	74.9	72.4	2.57	29.170 SF		
800.0	795.8	795.8	795.8	1.8	1.4	135.69	48.4	35.8	87.0	84.0	2.95	29.478		
900.0	894.1	894.1	894.1	2.2	1.5	142.92	48.4	35.8	101.0	97.7	3.31	30.528		
1,000.0	992.4	992.4	992.4	2.5	1.7	148.34	48.4	35.8	116.2	112.5	3.65	31.821		
1,100.0	1,090.7	1,086.8	1,086.8	2.9	1.9	152.20	48.6	37.1	133.5	129.5	3.99	33.493		
1,200.0	1,189.0	1,179.9	1,179.8	3.3	2.0	154.79	49.1	41.4	154.3	150.0	4.32	35.699		
1,300.0	1,287.4	1,271.8	1,271.4	3.6	2.2	156.43	50.0	48.6	178.4	173.7	4.67	38.222		
1,400.0	1,385.7	1,366.7	1,365.8	4.0	2.4	157.51	51.2	58.2	204.7	199.7	5.02	40.755		
1,500.0	1,484.0	1,463.1	1,461.7	4.3	2.6	158.34	52.5	68.1	231.2	225.8	5.38	42.944		
1,600.0	1,582.3	1,559.5	1,557.6	4.7	2.8	159.00	53.7	78.1	257.7	251.9	5.74	44.849		
1,700.0	1,680.6	1,655.9	1,653.4	5.1	3.0	159.54	54.9	88.0	284.2	278.1	6.11	46.518		
1,800.0	1,778.9	1,752.3	1,749.3	5.4	3.2	159.99	56.2	97.9	310.7	304.3	6.47	47.992		
1,900.0	1,877.2	1,848.7	1,845.2	5.8	3.5	160.36	57.4	107.8	337.3	330.4	6.84	49.301		
2,000.0	1,975.5	1,945.1	1,941.0	6.2	3.7	160.68	58.6	117.7	363.9	356.7	7.21	50.472		
2,100.0	2,073.9	2,041.4	2,036.9	6.5	3.9	160.96	59.9	127.6	390.4	382.9	7.58	51.524		
2,200.0	2,172.2	2,137.8	2,132.8	6.9	4.1	161.20	61.1	137.5	417.0	409.1	7.95	52.475		
2,300.0	2,270.5	2,234.2	2,228.6	7.3	4.4	161.42	62.3	147.4	443.6	435.3	8.32	53.337		
2,400.0	2,368.8	2,330.6	2,324.5	7.6	4.6	161.61	63.6	157.3	470.2	461.5	8.69	54.123		
2,500.0	2,467.1	2,427.0	2,420.4	8.0	4.8	161.77	64.8	167.2	496.8	487.8	9.06	54.842		
2,600.0	2,565.4	2,523.4	2,516.2	8.4	5.1	161.93	66.0	177.1	523.4	514.0	9.43	55.502		
2,700.0	2,663.7	2,619.8	2,612.1	8.7	5.3	162.06	67.3	187.0	550.0	540.2	9.80	56.110		
2,800.0	2,762.0	2,716.1	2,708.0	9.1	5.5	162.19	68.5	196.9	576.7	566.5	10.18	56.672		
2,900.0	2,860.3	2,812.5	2,803.9	9.5	5.8	162.30	69.7	206.9	603.3	592.7	10.55	57.193		
3,000.0	2,958.7	2,908.9	2,899.7	9.8	6.0	162.40	71.0	216.8	629.9	619.0	10.92	57.677		
3,100.0	3,057.0	3,005.3	2,995.6	10.2	6.3	162.50	72.2	226.7	656.5	645.2	11.29	58.128		
3,200.0	3,155.3	3,101.7	3,091.5	10.6	6.5	162.59	73.4	236.6	683.1	671.5	11.67	58.549		
3,300.0	3,253.6	3,207.9	3,197.1	10.9	6.7	162.69	74.8	246.2	709.5	697.5	12.06	58.847		
3,400.0	3,351.9	3,333.6	3,322.6	11.3	7.0	162.95	75.8	255.4	732.9	720.4	12.46	58.813		
3,500.0	3,450.2	3,461.3	3,450.2	11.7	7.2	163.38	76.1	258.3	752.4	739.6	12.85	58.549		
3,600.0	3,548.5	3,561.8	3,550.7	12.0	7.3	163.79	76.0	258.1	769.8	756.6	13.19	58.359		
3,700.0	3,646.8	3,661.1	3,649.9	12.4	7.5	164.20	75.7	257.6	787.1	773.6	13.53	58.181		
3,800.0	3,745.1	3,759.4	3,748.3	12.8	7.6	164.59	75.4	257.0	804.3	790.5	13.86	58.020		
3,900.0	3,843.5	3,857.8	3,846.7	13.1	7.8	164.96	75.1	256.5	821.6	807.4	14.20	57.869		
4,000.0	3,941.8	3,956.1	3,945.0	13.5	7.9	165.32	74.8	256.0	839.0	824.4	14.53	57.729		
4,100.0	4,040.1	4,054.5	4,043.4	13.9	8.0	165.66	74.5	255.5	856.3	841.4	14.87	57.598		
4,200.0	4,138.4	4,152.8	4,141.7	14.2	8.2	165.99	74.2	255.0	873.7	858.5	15.20	57.474		
4,300.0	4,236.7	4,251.2	4,240.1	14.6	8.3	166.30	73.9	254.4	891.1	875.6	15.54	57.358		
4,400.0	4,335.0	4,349.5	4,338.4	15.0	8.5	166.60	73.6	253.9	908.5	892.7	15.87	57.249		
4,500.0	4,433.3	4,447.9	4,436.8	15.3	8.6	166.90	73.3	253.4	926.0	909.8	16.20	57.145		
4,600.0	4,531.6	4,546.3	4,535.1	15.7	8.8	167.18	73.0	252.9	943.5	926.9	16.54	57.047		
4,700.0	4,630.0	4,644.6	4,633.5	16.1	8.9	167.45	72.7	252.3	961.0	944.1	16.87	56.955		
4,800.0	4,728.3	4,743.0	4,731.8	16.4	9.1	167.71	72.4	251.8	978.5	961.3	17.21	56.866		
4,900.0	4,826.6	4,841.3	4,830.2	16.8	9.2	167.96	72.1	251.3	996.0	978.5	17.54	56.782		
5,000.0	4,924.9	4,939.7	4,928.5	17.2	9.4	168.21	71.8	250.8	1,013.6	995.7	17.88	56.702		
5,100.0	5,023.2	5,038.0	5,026.9	17.5	9.5	168.44	71.5	250.3	1,031.2	1,013.0	18.21	56.626		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-22D - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,121.5	5,136.4	5,125.3	17.9	9.7	168.67	71.2	249.7	1,048.8	1,030.2	18.55	56.553		
5,300.0	5,219.8	5,234.8	5,223.6	18.3	9.8	168.89	70.9	249.2	1,066.4	1,047.5	18.88	56.483		
5,400.0	5,318.1	5,333.1	5,322.0	18.6	10.0	169.10	70.6	248.7	1,084.0	1,064.8	19.21	56.416		
5,500.0	5,416.4	5,431.5	5,420.3	19.0	10.2	169.31	70.3	248.2	1,101.6	1,082.1	19.55	56.351		
5,600.0	5,514.8	5,529.8	5,518.7	19.4	10.3	169.51	70.0	247.6	1,119.3	1,099.4	19.88	56.289		
5,700.0	5,613.1	5,628.2	5,617.0	19.7	10.5	169.70	69.7	247.1	1,137.0	1,116.7	20.22	56.230		
5,800.0	5,711.4	5,726.5	5,715.4	20.1	10.6	169.89	69.4	246.6	1,154.6	1,134.1	20.56	56.172		
5,900.0	5,809.7	5,824.9	5,813.7	20.5	10.8	170.07	69.1	246.1	1,172.3	1,151.4	20.89	56.117		
6,000.0	5,908.0	5,923.2	5,912.1	20.8	10.9	170.24	68.8	245.6	1,190.0	1,168.8	21.23	56.063		
6,100.0	6,006.3	6,021.6	6,010.4	21.2	11.1	170.41	68.5	245.0	1,207.7	1,186.2	21.56	56.011		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-23D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	36.74	71.4	53.3	89.1					
100.0	100.0	100.0	100.0	0.1	0.1	36.74	71.4	53.3	89.1	88.8	0.27	327.190		
200.0	200.0	200.0	200.0	0.3	0.3	36.74	71.4	53.3	89.1	88.5	0.62	143.376 CC, ES		
300.0	300.0	297.0	297.0	0.5	0.5	92.52	72.5	54.5	90.8	89.8	0.97	93.707		
400.0	399.8	393.5	393.4	0.7	0.7	95.92	75.8	58.1	96.2	94.9	1.33	72.167		
500.0	499.5	492.4	492.0	0.9	0.9	100.90	80.5	63.3	104.6	102.9	1.73	60.515		
600.0	598.7	591.2	590.6	1.2	1.1	106.73	85.2	68.6	114.7	112.6	2.16	53.168		
700.0	697.5	689.5	688.6	1.5	1.3	112.93	89.9	73.7	127.2	124.6	2.62	48.606		
800.0	795.8	787.3	786.1	1.8	1.5	119.01	94.6	78.9	142.3	139.2	3.08	46.223		
900.0	894.1	885.1	883.7	2.2	1.7	123.99	99.3	84.1	158.7	155.2	3.53	44.974		
1,000.0	992.4	982.8	981.2	2.5	1.9	128.03	104.0	89.2	176.1	172.1	3.97	44.355		
1,100.0	1,090.7	1,080.6	1,078.7	2.9	2.1	131.34	108.7	94.4	194.1	189.7	4.40	44.098		
1,200.0	1,189.0	1,178.4	1,176.3	3.3	2.3	134.08	113.4	99.6	212.8	207.9	4.83	44.051 SF		
1,300.0	1,287.4	1,276.2	1,273.8	3.6	2.5	136.38	118.1	104.7	231.8	226.5	5.25	44.129		
1,400.0	1,385.7	1,374.0	1,371.3	4.0	2.7	138.33	122.7	109.9	251.1	245.4	5.67	44.279		
1,500.0	1,484.0	1,471.8	1,468.9	4.3	3.0	140.01	127.4	115.1	270.6	264.5	6.09	44.470		
1,600.0	1,582.3	1,569.5	1,566.4	4.7	3.2	141.45	132.1	120.2	290.4	283.9	6.50	44.681		
1,700.0	1,680.6	1,667.3	1,663.9	5.1	3.4	142.72	136.8	125.4	310.3	303.4	6.91	44.902		
1,800.0	1,778.9	1,765.1	1,761.5	5.4	3.6	143.83	141.5	130.5	330.3	323.0	7.32	45.125		
1,900.0	1,877.2	1,862.9	1,859.0	5.8	3.8	144.81	146.2	135.7	350.5	342.7	7.73	45.344		
2,000.0	1,975.5	1,960.7	1,956.5	6.2	4.0	145.69	150.9	140.9	370.7	362.6	8.14	45.558		
2,100.0	2,073.9	2,058.5	2,054.1	6.5	4.2	146.48	155.5	146.0	391.0	382.5	8.54	45.765		
2,200.0	2,172.2	2,156.2	2,151.6	6.9	4.4	147.19	160.2	151.2	411.4	402.4	8.95	45.963		
2,300.0	2,270.5	2,254.0	2,249.1	7.3	4.6	147.83	164.9	156.4	431.8	422.4	9.36	46.153		
2,400.0	2,368.8	2,351.8	2,346.7	7.6	4.8	148.42	169.6	161.5	452.3	442.5	9.76	46.333		
2,500.0	2,467.1	2,449.6	2,444.2	8.0	5.0	148.95	174.3	166.7	472.8	462.6	10.17	46.506		
2,600.0	2,565.4	2,547.4	2,541.7	8.4	5.3	149.44	179.0	171.9	493.3	482.8	10.57	46.670		
2,700.0	2,663.7	2,645.2	2,639.3	8.7	5.5	149.89	183.7	177.0	513.9	502.9	10.97	46.826		
2,800.0	2,762.0	2,742.9	2,736.8	9.1	5.7	150.30	188.3	182.2	534.5	523.1	11.38	46.974		
2,900.0	2,860.3	2,840.7	2,834.3	9.5	5.9	150.69	193.0	187.3	555.1	543.4	11.78	47.115		
3,000.0	2,958.7	2,938.5	2,931.9	9.8	6.1	151.05	197.7	192.5	575.8	563.6	12.19	47.249		
3,100.0	3,057.0	3,036.3	3,029.4	10.2	6.3	151.38	202.4	197.7	596.5	583.9	12.59	47.377		
3,200.0	3,155.3	3,134.1	3,126.9	10.6	6.5	151.69	207.1	202.8	617.2	604.2	12.99	47.499		
3,300.0	3,253.6	3,231.8	3,224.5	10.9	6.7	151.98	211.8	208.0	637.9	624.5	13.40	47.615		
3,400.0	3,351.9	3,329.6	3,322.0	11.3	6.9	152.25	216.5	213.2	658.6	644.8	13.80	47.726		
3,500.0	3,450.2	3,427.4	3,419.5	11.7	7.1	152.51	221.1	218.3	679.3	665.1	14.20	47.832		
3,600.0	3,548.5	3,525.2	3,517.1	12.0	7.4	152.75	225.8	223.5	700.1	685.5	14.61	47.933		
3,700.0	3,646.8	3,623.0	3,614.6	12.4	7.6	152.97	230.5	228.7	720.8	705.8	15.01	48.029		
3,800.0	3,745.1	3,720.8	3,712.1	12.8	7.8	153.19	235.2	233.8	741.6	726.2	15.41	48.122		
3,900.0	3,843.5	3,818.5	3,809.7	13.1	8.0	153.39	239.9	239.0	762.4	746.6	15.81	48.210		
4,000.0	3,941.8	3,916.3	3,907.2	13.5	8.2	153.58	244.6	244.2	783.2	767.0	16.22	48.295		
4,100.0	4,040.1	4,014.1	4,004.7	13.9	8.4	153.76	249.3	249.3	804.0	787.4	16.62	48.376		
4,200.0	4,138.4	4,111.9	4,102.3	14.2	8.6	153.94	253.9	254.5	824.8	807.8	17.02	48.454		
4,300.0	4,236.7	4,209.7	4,199.8	14.6	8.8	154.10	258.6	259.6	845.6	828.2	17.42	48.529		
4,400.0	4,335.0	4,307.5	4,297.3	15.0	9.0	154.26	263.3	264.8	866.4	848.6	17.83	48.601		
4,500.0	4,433.3	4,405.2	4,394.9	15.3	9.2	154.40	268.0	270.0	887.2	869.0	18.23	48.670		
4,600.0	4,531.6	4,503.0	4,492.4	15.7	9.4	154.55	272.7	275.1	908.1	889.4	18.63	48.737		
4,700.0	4,630.0	4,600.8	4,589.9	16.1	9.7	154.68	277.4	280.3	928.9	909.9	19.03	48.801		
4,800.0	4,728.3	4,698.6	4,687.5	16.4	9.9	154.81	282.1	285.5	949.7	930.3	19.44	48.863		
4,900.0	4,826.6	4,796.4	4,785.0	16.8	10.1	154.94	286.7	290.6	970.6	950.7	19.84	48.923		
5,000.0	4,924.9	4,894.2	4,882.6	17.2	10.3	155.05	291.4	295.8	991.4	971.2	20.24	48.980		
5,100.0	5,023.2	4,991.9	4,980.1	17.5	10.5	155.17	296.1	301.0	1,012.3	991.6	20.64	49.035		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-23D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,121.5	5,089.7	5,077.6	17.9	10.7	155.28	300.8	306.1	1,033.1	1,012.1	21.05	49.089		
5,300.0	5,219.8	5,187.5	5,175.2	18.3	10.9	155.38	305.5	311.3	1,054.0	1,032.5	21.45	49.141		
5,400.0	5,318.1	5,285.3	5,272.7	18.6	11.1	155.48	310.2	316.4	1,074.9	1,053.0	21.85	49.191		
5,500.0	5,416.4	5,383.1	5,370.2	19.0	11.3	155.58	314.9	321.6	1,095.7	1,073.5	22.25	49.239		
5,600.0	5,514.8	5,480.8	5,467.8	19.4	11.5	155.67	319.5	326.8	1,116.6	1,093.9	22.66	49.286		
5,700.0	5,613.1	5,578.6	5,565.3	19.7	11.8	155.76	324.2	331.9	1,137.5	1,114.4	23.06	49.331		
5,800.0	5,711.4	5,676.4	5,662.8	20.1	12.0	155.85	328.9	337.1	1,158.3	1,134.9	23.46	49.375		
5,900.0	5,809.7	5,774.2	5,760.4	20.5	12.2	155.93	333.6	342.3	1,179.2	1,155.3	23.86	49.418		
6,000.0	5,908.0	5,892.2	5,878.1	20.8	12.4	156.08	338.5	347.6	1,199.6	1,175.3	24.28	49.408		
6,100.0	6,006.3	6,020.7	6,006.6	21.2	12.6	156.43	340.2	349.5	1,217.5	1,192.8	24.65	49.391		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 139-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	36.71	59.4	44.3	74.1					
100.0	100.0	99.3	99.3	0.1	0.1	36.68	59.8	44.5	74.5	74.3	0.28	263.418		
200.0	200.0	198.1	198.1	0.3	0.3	36.51	61.2	45.3	76.2	75.6	0.62	122.264		
300.0	300.0	296.6	296.6	0.5	0.5	91.45	64.5	46.4	79.6	78.6	0.97	81.992		
400.0	399.8	393.8	393.5	0.7	0.7	92.87	70.6	47.5	85.4	84.1	1.34	63.610		
500.0	499.5	490.6	489.8	0.9	0.9	94.99	80.3	49.3	94.9	93.2	1.76	54.026		
600.0	598.7	590.0	588.4	1.2	1.2	97.42	92.8	50.6	106.5	104.3	2.24	47.547		
700.0	697.5	689.3	686.7	1.5	1.5	99.86	106.6	49.9	118.3	115.5	2.80	42.290		
800.0	795.8	787.1	783.5	1.8	1.8	102.88	120.6	49.2	131.3	127.9	3.38	38.820		
900.0	894.1	883.7	879.2	2.2	2.1	105.90	134.4	50.3	145.9	142.0	3.97	36.799		
1,000.0	992.4	982.6	977.0	2.5	2.4	108.38	148.9	51.6	161.3	156.7	4.57	35.310		
1,100.0	1,090.7	1,079.1	1,072.3	2.9	2.7	110.34	163.5	53.5	177.6	172.5	5.17	34.388		
1,200.0	1,189.0	1,177.8	1,169.7	3.3	3.0	111.75	179.3	55.2	194.5	188.7	5.78	33.646		
1,300.0	1,287.4	1,276.8	1,267.5	3.6	3.3	113.05	194.8	57.2	211.5	205.1	6.39	33.120		
1,400.0	1,385.7	1,377.6	1,367.2	4.0	3.6	114.38	209.5	58.7	227.6	220.6	6.99	32.554		
1,500.0	1,484.0	1,475.2	1,463.8	4.3	3.9	115.62	223.1	60.3	243.7	236.1	7.58	32.147		
1,600.0	1,582.3	1,574.1	1,561.7	4.7	4.2	116.78	236.9	62.4	260.2	252.0	8.17	31.837		
1,700.0	1,680.6	1,674.8	1,661.5	5.1	4.5	117.82	250.6	63.9	276.1	267.4	8.76	31.504		
1,800.0	1,778.9	1,774.1	1,759.9	5.4	4.8	118.80	263.6	64.9	291.6	282.2	9.35	31.194		
1,900.0	1,877.2	1,872.2	1,857.2	5.8	5.1	119.74	276.2	66.3	307.2	297.3	9.92	30.971		
2,000.0	1,975.5	1,969.0	1,953.2	6.2	5.3	120.67	288.2	68.0	323.2	312.7	10.48	30.843		
2,100.0	2,073.9	2,066.1	2,049.6	6.5	5.6	121.58	300.1	70.6	339.9	328.9	11.03	30.804		
2,200.0	2,172.2	2,165.8	2,148.5	6.9	5.9	122.39	312.6	73.1	356.7	345.1	11.60	30.762		
2,300.0	2,270.5	2,266.1	2,248.0	7.3	6.2	123.16	324.8	75.2	373.1	360.9	12.16	30.690		
2,400.0	2,368.8	2,362.0	2,343.2	7.6	6.4	123.82	336.6	77.1	389.4	376.7	12.71	30.641		
2,500.0	2,467.1	2,459.9	2,440.2	8.0	6.7	124.33	349.5	79.5	406.6	393.3	13.28	30.609		
2,600.0	2,565.4	2,556.3	2,535.5	8.4	7.0	124.59	363.6	81.4	423.8	409.9	13.88	30.537		
2,700.0	2,663.7	2,654.2	2,632.2	8.7	7.4	124.71	379.0	83.6	441.5	427.1	14.48	30.498		
2,800.0	2,762.0	2,756.3	2,733.1	9.1	7.7	124.89	394.5	85.6	458.9	443.8	15.09	30.417		
2,900.0	2,860.3	2,857.8	2,833.4	9.5	8.0	125.02	409.9	86.7	475.5	459.8	15.70	30.279		
3,000.0	2,958.7	2,957.9	2,932.3	9.8	8.3	125.08	425.4	87.3	491.6	475.3	16.32	30.125		
3,100.0	3,057.0	3,060.9	3,034.2	10.2	8.6	125.21	440.5	87.4	507.2	490.3	16.93	29.965		
3,200.0	3,155.3	3,151.0	3,123.3	10.6	8.9	125.37	453.5	88.1	523.2	505.7	17.50	29.895		
3,300.0	3,253.6	3,236.7	3,207.9	10.9	9.2	125.44	467.0	90.1	541.1	523.0	18.07	29.943		
3,400.0	3,351.9	3,338.8	3,308.6	11.3	9.5	125.52	483.3	93.6	560.1	541.4	18.68	29.984		
3,500.0	3,450.2	3,448.8	3,417.4	11.7	9.9	125.68	499.7	95.7	577.3	558.0	19.31	29.901		
3,600.0	3,548.5	3,538.6	3,506.0	12.0	10.2	125.71	513.8	97.2	594.6	574.7	19.90	29.880		
3,700.0	3,646.8	3,637.0	3,603.1	12.4	10.5	125.75	529.5	99.4	612.5	592.0	20.51	29.870		
3,800.0	3,745.1	3,726.4	3,691.2	12.8	10.8	125.72	544.6	101.9	631.1	610.0	21.11	29.894		
3,900.0	3,843.5	3,815.0	3,778.1	13.1	11.2	125.54	561.6	105.2	651.5	629.7	21.74	29.964		
4,000.0	3,941.8	3,918.9	3,879.8	13.5	11.6	125.26	582.5	109.2	672.1	649.7	22.43	29.966		
4,100.0	4,040.1	4,024.1	3,982.8	13.9	12.0	124.94	603.9	111.6	691.4	668.3	23.14	29.886		
4,200.0	4,138.4	4,125.2	4,081.9	14.2	12.4	124.70	623.5	113.5	710.1	686.3	23.81	29.830		
4,300.0	4,236.7	4,224.4	4,179.3	14.6	12.7	124.46	642.9	114.9	728.5	704.0	24.49	29.745		
4,400.0	4,335.0	4,319.8	4,272.5	15.0	13.1	124.14	662.9	116.2	747.1	722.0	25.17	29.684		
4,500.0	4,433.3	4,420.7	4,371.4	15.3	13.5	123.91	682.8	117.8	765.7	739.9	25.84	29.630		
4,600.0	4,531.6	4,522.0	4,470.9	15.7	13.9	123.75	702.1	119.4	784.0	757.5	26.51	29.574		
4,700.0	4,630.0	4,622.9	4,570.1	16.1	14.2	123.67	720.1	120.9	801.9	774.7	27.16	29.526		
4,800.0	4,728.3	4,725.4	4,671.1	16.4	14.6	123.64	737.7	122.4	819.4	791.6	27.80	29.476		
4,900.0	4,826.6	4,821.8	4,766.2	16.8	14.9	123.65	753.6	123.7	836.6	808.2	28.42	29.433		
5,000.0	4,924.9	4,920.6	4,863.5	17.2	15.3	123.63	770.7	125.2	854.3	825.2	29.05	29.402		
5,100.0	5,023.2	5,021.1	4,962.6	17.5	15.6	123.66	787.0	126.7	871.5	841.9	29.68	29.368		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 139-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,200.0	5,121.5	5,116.6	5,056.8	17.9	15.9	123.69	802.5	128.2	888.9	858.6	30.30	29.335		
5,300.0	5,219.8	5,215.2	5,153.9	18.3	16.3	123.64	819.8	129.6	906.5	875.6	30.94	29.300		
5,400.0	5,318.1	5,317.1	5,254.3	18.6	16.6	123.64	836.9	131.0	923.9	892.3	31.57	29.266		
5,500.0	5,416.4	5,424.2	5,360.1	19.0	16.9	123.71	853.5	132.3	940.7	908.5	32.21	29.208		
5,600.0	5,514.8	5,526.9	5,461.6	19.4	17.3	123.78	869.1	132.9	956.7	923.9	32.83	29.142		
5,700.0	5,613.1	5,617.0	5,550.6	19.7	17.6	123.81	883.4	133.3	972.8	939.4	33.43	29.098		
5,800.0	5,711.4	5,701.7	5,634.1	20.1	17.9	123.79	897.9	134.2	990.1	956.1	34.03	29.097		
5,900.0	5,809.7	5,799.6	5,730.4	20.5	18.2	123.76	914.9	136.3	1,008.3	973.7	34.65	29.097		
6,000.0	5,908.0	5,910.5	5,839.9	20.8	18.6	123.83	932.4	138.4	1,025.9	990.6	35.29	29.066		
6,100.0	6,006.3	6,005.4	5,933.6	21.2	18.9	123.88	947.4	139.8	1,043.0	1,007.1	35.91	29.046		
6,200.0	6,104.6	6,093.9	6,020.7	21.6	19.2	123.83	963.0	141.2	1,060.8	1,024.2	36.53	29.041		
6,300.0	6,202.9	6,198.4	6,123.5	21.9	19.6	123.77	981.7	142.9	1,078.7	1,041.5	37.18	29.010		
6,400.0	6,301.2	6,299.4	6,223.0	22.3	19.9	123.76	998.9	144.4	1,096.2	1,058.4	37.82	28.983		
6,500.0	6,399.6	6,403.0	6,325.2	22.7	20.3	123.75	1,016.4	145.7	1,113.6	1,075.1	38.46	28.950		
6,600.0	6,497.9	6,507.2	6,428.1	23.0	20.6	123.84	1,031.8	147.0	1,130.1	1,091.0	39.07	28.928		
6,700.0	6,596.2	6,610.6	6,530.7	23.4	20.9	124.04	1,045.0	149.1	1,146.7	1,107.0	39.63	28.935		
6,800.0	6,694.5	6,738.8	6,658.3	23.8	21.1	124.43	1,058.1	150.6	1,161.6	1,121.4	40.21	28.892		
6,900.0	6,792.8	6,842.7	6,761.8	24.1	21.4	124.85	1,066.3	150.7	1,174.9	1,134.2	40.71	28.857		
7,000.0	6,891.5	6,944.5	6,863.3	24.4	21.5	125.40	1,073.0	151.1	1,186.7	1,145.6	41.18	28.819		
7,100.0	6,990.7	7,044.2	6,963.0	24.7	21.7	125.87	1,077.3	152.2	1,196.5	1,155.0	41.55	28.794		
7,200.0	7,090.3	7,157.3	7,076.1	24.9	21.8	126.26	1,080.5	153.1	1,203.6	1,161.7	41.90	28.727		
7,300.0	7,190.1	7,265.1	7,183.8	25.0	22.0	126.45	1,083.2	153.4	1,208.1	1,165.9	42.20	28.628		
7,400.0	7,290.1	7,375.0	7,293.6	25.1	22.1	126.46	1,085.3	152.5	1,209.2	1,166.8	42.46	28.482		
7,500.0	7,390.1	7,482.3	7,400.9	25.2	22.2	-168.26	1,086.7	151.6	1,209.0	1,166.3	42.69	28.316		
7,600.0	7,490.1	7,586.7	7,505.4	25.3	22.3	-168.29	1,086.8	150.2	1,208.4	1,165.4	42.92	28.154		
7,700.0	7,590.0	7,690.1	7,608.7	25.4	22.4	-168.32	1,086.6	148.8	1,208.0	1,164.8	43.14	28.002		
7,800.0	7,690.0	7,798.9	7,717.5	25.5	22.5	-168.33	1,085.8	146.9	1,207.5	1,164.2	43.36	27.850		
7,900.0	7,790.0	7,905.9	7,824.5	25.6	22.6	-168.33	1,084.7	144.2	1,206.4	1,162.8	43.58	27.683		
8,000.0	7,890.0	7,996.0	7,914.5	25.7	22.7	-168.32	1,083.6	142.2	1,205.4	1,161.6	43.78	27.534		
8,020.8	7,910.8	8,011.7	7,930.3	25.8	22.7	-168.32	1,083.5	141.9	1,205.3	1,161.5	43.82	27.507		
8,100.0	7,990.0	8,080.0	7,998.5	25.8	22.8	-168.34	1,083.4	141.5	1,205.9	1,161.9	43.98	27.416		
8,200.0	8,090.0	8,175.0	8,093.5	25.9	22.9	-168.36	1,083.6	141.2	1,207.2	1,163.0	44.20	27.311		
8,300.0	8,190.0	8,269.0	8,187.5	26.0	23.0	-168.37	1,083.3	141.2	1,208.6	1,164.2	44.41	27.215		
8,400.0	8,290.0	8,372.3	8,290.8	26.2	23.1	-168.34	1,082.5	141.5	1,210.2	1,165.5	44.62	27.120		
8,500.0	8,390.0	8,461.9	8,380.5	26.3	23.2	-168.34	1,082.4	141.9	1,212.1	1,167.2	44.84	27.032		
8,600.0	8,489.9	8,572.9	8,491.4	26.4	23.3	-168.35	1,082.4	142.3	1,214.0	1,168.9	45.07	26.933		
8,700.0	8,589.9	8,684.3	8,602.8	26.5	23.4	-168.34	1,081.5	141.8	1,214.8	1,169.5	45.30	26.814		
8,800.0	8,689.9	8,792.9	8,711.4	26.6	23.5	-168.31	1,080.2	140.7	1,215.0	1,169.5	45.53	26.687		
8,900.0	8,789.9	8,895.7	8,814.2	26.7	23.6	-168.24	1,077.9	139.2	1,214.5	1,168.7	45.72	26.561		
9,000.0	8,889.9	9,002.1	8,920.5	26.8	23.7	-168.15	1,075.0	137.8	1,213.9	1,167.9	45.95	26.418		
9,100.0	8,989.9	9,123.5	9,041.8	26.9	23.8	-168.20	1,074.3	133.7	1,212.0	1,165.8	46.22	26.220		
9,200.0	9,089.9	9,214.0	9,132.3	27.0	24.0	-168.29	1,074.7	129.8	1,209.6	1,163.1	46.49	26.020		
9,291.5	9,181.3	9,281.5	9,199.8	27.1	24.0	-168.35	1,075.2	127.9	1,208.7	1,162.0	46.68	25.895		
9,300.0	9,189.9	9,287.8	9,206.0	27.1	24.0	-168.35	1,075.2	127.8	1,208.7	1,162.0	46.69	25.886		
9,400.0	9,289.8	9,391.0	9,309.2	27.3	24.1	-168.34	1,074.3	126.8	1,209.1	1,162.2	46.93	25.766		
9,500.0	9,389.8	9,499.0	9,417.2	27.4	24.3	-168.33	1,073.1	124.7	1,208.4	1,161.2	47.17	25.617		
9,556.4	9,446.3	9,546.1	9,464.3	27.4	24.3	-168.34	1,072.7	123.8	1,208.1	1,160.8	47.30	25.542		
9,600.0	9,489.8	9,578.8	9,497.0	27.5	24.3	-168.34	1,072.6	123.5	1,208.3	1,160.9	47.39	25.497		
9,700.0	9,589.8	9,692.8	9,610.9	27.6	24.5	-168.35	1,072.0	122.6	1,209.0	1,161.3	47.64	25.375		
9,800.0	9,689.8	9,810.1	9,728.2	27.7	24.6	-168.30	1,069.7	120.1	1,207.9	1,160.0	47.88	25.226		
9,900.0	9,789.8	9,914.1	9,832.1	27.8	24.6	-168.21	1,066.6	117.5	1,206.1	1,158.0	48.09	25.077		
10,000.0	9,889.8	10,023.0	9,940.9	28.0	24.7	-168.08	1,062.4	114.6	1,203.8	1,155.5	48.30	24.923		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design											Sec 6 T6S R96W (F06 696) - Chevron 6-25D - DD - DD		Offset Site Error:		0.0 ft		
Survey Program:				139-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor					
10,100.0	9,989.8	10,128.8	10,046.6	28.1	24.8	-167.91	1,057.2	111.1	1,200.7	1,152.2	48.49	24.760					
10,164.2	10,054.0	10,190.7	10,108.3	28.2	24.8	-167.80	1,053.9	109.1	1,198.7	1,150.1	48.61	24.658 SF					

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-32D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-143.39	-72.1	-53.6	89.8					
100.0	100.0	100.0	100.0	0.1	0.1	-143.39	-72.1	-53.6	89.8	89.6	0.27	329.968		
200.0	200.0	200.0	200.0	0.3	0.3	-143.39	-72.1	-53.6	89.8	89.2	0.62	144.593 CC, ES		
300.0	300.0	296.9	296.9	0.5	0.5	-89.81	-73.4	-54.6	91.5	90.5	0.97	94.447		
400.0	399.8	393.5	393.4	0.7	0.7	-92.50	-77.1	-57.8	96.7	95.3	1.33	72.491		
500.0	499.5	489.5	489.0	0.9	0.9	-96.34	-83.3	-62.9	105.7	104.0	1.73	61.136		
600.0	598.7	584.6	583.4	1.2	1.1	-100.64	-91.9	-70.1	119.0	116.8	2.17	54.932		
700.0	697.5	678.4	676.2	1.5	1.4	-104.85	-102.7	-79.1	136.9	134.2	2.65	51.557		
800.0	795.8	771.0	767.2	1.8	1.8	-108.62	-115.6	-89.9	159.1	155.9	3.17	50.130		
900.0	894.1	862.4	856.5	2.2	2.1	-111.16	-130.6	-102.5	184.8	181.1	3.71	49.769		
1,000.0	992.4	957.7	949.2	2.5	2.5	-112.92	-147.6	-116.7	212.3	208.0	4.28	49.649		
1,100.0	1,090.7	1,053.7	1,042.6	2.9	2.9	-114.28	-164.7	-131.0	240.0	235.2	4.85	49.475		
1,200.0	1,189.0	1,149.6	1,135.9	3.3	3.4	-115.37	-181.9	-145.3	267.8	262.4	5.43	49.286		
1,300.0	1,287.4	1,245.6	1,229.2	3.6	3.8	-116.25	-199.0	-159.6	295.7	289.7	6.02	49.099		
1,400.0	1,385.7	1,341.5	1,322.5	4.0	4.2	-116.97	-216.1	-174.0	323.7	317.0	6.62	48.923		
1,500.0	1,484.0	1,437.5	1,415.8	4.3	4.6	-117.59	-233.2	-188.3	351.6	344.4	7.21	48.759		
1,600.0	1,582.3	1,533.4	1,509.1	4.7	5.0	-118.11	-250.4	-202.6	379.7	371.8	7.81	48.608		
1,700.0	1,680.6	1,629.4	1,602.4	5.1	5.5	-118.56	-267.5	-216.9	407.7	399.3	8.41	48.471		
1,800.0	1,778.9	1,725.3	1,695.7	5.4	5.9	-118.95	-284.6	-231.2	435.7	426.7	9.01	48.346		
1,900.0	1,877.2	1,821.2	1,789.0	5.8	6.3	-119.29	-301.7	-245.6	463.8	454.2	9.62	48.231		
2,000.0	1,975.5	1,917.2	1,882.4	6.2	6.7	-119.60	-318.9	-259.9	491.9	481.7	10.22	48.127		
2,100.0	2,073.9	2,013.1	1,975.7	6.5	7.2	-119.87	-336.0	-274.2	520.0	509.2	10.83	48.031		
2,200.0	2,172.2	2,109.1	2,069.0	6.9	7.6	-120.12	-353.1	-288.5	548.1	536.7	11.43	47.943		
2,300.0	2,270.5	2,205.0	2,162.3	7.3	8.0	-120.34	-370.2	-302.8	576.2	564.2	12.04	47.862		
2,400.0	2,368.8	2,301.0	2,255.6	7.6	8.4	-120.54	-387.4	-317.1	604.3	591.7	12.65	47.788		
2,500.0	2,467.1	2,396.9	2,348.9	8.0	8.9	-120.72	-404.5	-331.5	632.5	619.2	13.25	47.719		
2,600.0	2,565.4	2,492.8	2,442.2	8.4	9.3	-120.89	-421.6	-345.8	660.6	646.7	13.86	47.655		
2,700.0	2,663.7	2,588.8	2,535.5	8.7	9.7	-121.04	-438.7	-360.1	688.7	674.3	14.47	47.596		
2,800.0	2,762.0	2,684.7	2,628.8	9.1	10.1	-121.18	-455.9	-374.4	716.9	701.8	15.08	47.540		
2,900.0	2,860.3	2,780.7	2,722.2	9.5	10.6	-121.31	-473.0	-388.7	745.0	729.4	15.69	47.489		
3,000.0	2,958.7	2,876.6	2,815.5	9.8	11.0	-121.43	-490.1	-403.0	773.2	756.9	16.30	47.441		
3,100.0	3,057.0	2,972.6	2,908.8	10.2	11.4	-121.55	-507.2	-417.4	801.3	784.4	16.91	47.396		
3,200.0	3,155.3	3,068.5	3,002.1	10.6	11.9	-121.65	-524.4	-431.7	829.5	812.0	17.52	47.353		
3,300.0	3,253.6	3,164.5	3,095.4	10.9	12.3	-121.75	-541.5	-446.0	857.7	839.5	18.13	47.313		
3,400.0	3,351.9	3,260.4	3,188.7	11.3	12.7	-121.84	-558.6	-460.3	885.8	867.1	18.74	47.276		
3,500.0	3,450.2	3,356.3	3,282.0	11.7	13.1	-121.93	-575.8	-474.6	914.0	894.6	19.35	47.240		
3,600.0	3,548.5	3,452.3	3,375.3	12.0	13.6	-122.01	-592.9	-489.0	942.1	922.2	19.96	47.207		
3,700.0	3,646.8	3,548.2	3,468.6	12.4	14.0	-122.09	-610.0	-503.3	970.3	949.7	20.57	47.175		
3,800.0	3,745.1	3,644.2	3,562.0	12.8	14.4	-122.16	-627.1	-517.6	998.5	977.3	21.18	47.145		
3,900.0	3,843.5	3,740.1	3,655.3	13.1	14.8	-122.23	-644.3	-531.9	1,026.6	1,004.9	21.79	47.117		
4,000.0	3,941.8	3,836.1	3,748.6	13.5	15.3	-122.29	-661.4	-546.2	1,054.8	1,032.4	22.40	47.090		
4,100.0	4,040.1	3,932.0	3,841.9	13.9	15.7	-122.35	-678.5	-560.5	1,083.0	1,060.0	23.01	47.064		
4,200.0	4,138.4	4,027.9	3,935.2	14.2	16.1	-122.41	-695.6	-574.9	1,111.2	1,087.5	23.62	47.040		
4,300.0	4,236.7	4,123.9	4,028.5	14.6	16.6	-122.46	-712.8	-589.2	1,139.3	1,115.1	24.23	47.017		
4,400.0	4,335.0	4,219.8	4,121.8	15.0	17.0	-122.52	-729.9	-603.5	1,167.5	1,142.7	24.84	46.994		
4,500.0	4,433.3	4,315.8	4,215.1	15.3	17.4	-122.57	-747.0	-617.8	1,195.7	1,170.2	25.45	46.973 SF		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-143.28	-60.1	-44.8	75.0					
100.0	100.0	100.0	100.0	0.1	0.1	-143.28	-60.1	-44.8	75.0	74.7	0.27	275.386		
200.0	200.0	200.0	200.0	0.3	0.3	-143.28	-60.1	-44.8	75.0	74.4	0.62	120.675		
297.5	297.5	297.5	297.5	0.5	0.5	-90.00	-60.1	-44.8	75.0	74.0	0.97	77.647 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-90.07	-60.1	-44.8	75.0	74.0	0.97	76.948 ES		
400.0	399.8	397.4	397.4	0.7	0.7	-93.53	-61.2	-46.1	76.8	75.4	1.34	57.285		
500.0	499.5	494.5	494.3	0.9	0.8	-98.23	-64.3	-49.9	82.4	80.7	1.74	47.466		
600.0	598.7	591.0	590.5	1.2	1.1	-103.33	-69.6	-56.1	92.4	90.2	2.18	42.461		
700.0	697.5	686.7	685.5	1.5	1.3	-108.07	-76.8	-64.8	106.9	104.2	2.67	40.069		
800.0	795.8	781.5	779.2	1.8	1.6	-111.97	-86.0	-75.8	125.6	122.4	3.19	39.316		
900.0	894.1	875.5	871.6	2.2	1.9	-114.16	-97.1	-89.0	147.2	143.5	3.75	39.299		
1,000.0	992.4	972.6	966.7	2.5	2.3	-115.47	-109.6	-103.9	170.3	166.0	4.32	39.376		
1,100.0	1,090.7	1,069.8	1,062.0	2.9	2.6	-116.46	-122.2	-118.9	193.4	188.5	4.91	39.365		
1,200.0	1,189.0	1,167.1	1,157.3	3.3	3.0	-117.24	-134.7	-133.8	216.6	211.1	5.51	39.309		
1,300.0	1,287.4	1,264.3	1,252.5	3.6	3.4	-117.87	-147.3	-148.8	239.9	233.8	6.11	39.234		
1,400.0	1,385.7	1,361.5	1,347.8	4.0	3.7	-118.39	-159.8	-163.7	263.1	256.4	6.72	39.153		
1,500.0	1,484.0	1,458.8	1,443.0	4.3	4.1	-118.82	-172.3	-178.7	286.4	279.0	7.33	39.071		
1,600.0	1,582.3	1,556.0	1,538.3	4.7	4.5	-119.19	-184.9	-193.6	309.7	301.7	7.94	38.991		
1,700.0	1,680.6	1,653.2	1,633.5	5.1	4.9	-119.51	-197.4	-208.6	332.9	324.4	8.56	38.916		
1,800.0	1,778.9	1,750.5	1,728.8	5.4	5.2	-119.78	-209.9	-223.5	356.2	347.1	9.17	38.846		
1,900.0	1,877.2	1,847.7	1,824.1	5.8	5.6	-120.02	-222.5	-238.5	379.5	369.8	9.79	38.781		
2,000.0	1,975.5	1,944.9	1,919.3	6.2	6.0	-120.24	-235.0	-253.4	402.9	392.5	10.40	38.720		
2,100.0	2,073.9	2,042.2	2,014.6	6.5	6.4	-120.43	-247.6	-268.4	426.2	415.2	11.02	38.664		
2,200.0	2,172.2	2,139.4	2,109.8	6.9	6.8	-120.60	-260.1	-283.4	449.5	437.9	11.64	38.611		
2,300.0	2,270.5	2,236.6	2,205.1	7.3	7.1	-120.75	-272.6	-298.3	472.8	460.6	12.26	38.563		
2,400.0	2,368.8	2,333.9	2,300.3	7.6	7.5	-120.89	-285.2	-313.3	496.1	483.3	12.88	38.517		
2,500.0	2,467.1	2,431.1	2,395.6	8.0	7.9	-121.02	-297.7	-328.2	519.5	506.0	13.50	38.475		
2,600.0	2,565.4	2,528.3	2,490.8	8.4	8.3	-121.14	-310.3	-343.2	542.8	528.7	14.12	38.436		
2,700.0	2,663.7	2,625.6	2,586.1	8.7	8.7	-121.24	-322.8	-358.1	566.1	551.4	14.74	38.400		
2,800.0	2,762.0	2,722.8	2,681.4	9.1	9.1	-121.34	-335.3	-373.1	589.5	574.1	15.36	38.366		
2,900.0	2,860.3	2,820.0	2,776.6	9.5	9.4	-121.43	-347.9	-388.0	612.8	596.8	15.99	38.333		
3,000.0	2,958.7	2,917.3	2,871.9	9.8	9.8	-121.51	-360.4	-403.0	636.1	619.5	16.61	38.303		
3,100.0	3,057.0	3,014.5	2,967.1	10.2	10.2	-121.59	-373.0	-417.9	659.5	642.2	17.23	38.275		
3,200.0	3,155.3	3,111.7	3,062.4	10.6	10.6	-121.66	-385.5	-432.9	682.8	665.0	17.85	38.249		
3,300.0	3,253.6	3,209.0	3,157.6	10.9	11.0	-121.73	-398.0	-447.9	706.2	687.7	18.47	38.223		
3,400.0	3,351.9	3,306.2	3,252.9	11.3	11.4	-121.80	-410.6	-462.8	729.5	710.4	19.10	38.200		
3,500.0	3,450.2	3,403.5	3,348.2	11.7	11.7	-121.86	-423.1	-477.8	752.8	733.1	19.72	38.177		
3,600.0	3,548.5	3,500.7	3,443.4	12.0	12.1	-121.91	-435.7	-492.7	776.2	755.8	20.34	38.156		
3,700.0	3,646.8	3,597.9	3,538.7	12.4	12.5	-121.96	-448.2	-507.7	799.5	778.6	20.96	38.136		
3,800.0	3,745.1	3,695.2	3,633.9	12.8	12.9	-122.01	-460.7	-522.6	822.9	801.3	21.59	38.117		
3,900.0	3,843.5	3,792.4	3,729.2	13.1	13.3	-122.06	-473.3	-537.6	846.2	824.0	22.21	38.099		
4,000.0	3,941.8	3,889.6	3,824.4	13.5	13.7	-122.11	-485.8	-552.5	869.6	846.7	22.83	38.081		
4,100.0	4,040.1	3,986.9	3,919.7	13.9	14.0	-122.15	-498.3	-567.5	892.9	869.4	23.46	38.065		
4,200.0	4,138.4	4,084.1	4,014.9	14.2	14.4	-122.19	-510.9	-582.4	916.2	892.2	24.08	38.049		
4,300.0	4,236.7	4,181.3	4,110.2	14.6	14.8	-122.23	-523.4	-597.4	939.6	914.9	24.70	38.034		
4,400.0	4,335.0	4,278.6	4,205.5	15.0	15.2	-122.26	-536.0	-612.4	962.9	937.6	25.33	38.020		
4,500.0	4,433.3	4,375.8	4,300.7	15.3	15.6	-122.30	-548.5	-627.3	986.3	960.3	25.95	38.006		
4,600.0	4,531.6	4,473.0	4,396.0	15.7	16.0	-122.33	-561.0	-642.3	1,009.6	983.1	26.57	37.993		
4,700.0	4,630.0	4,570.3	4,491.2	16.1	16.3	-122.36	-573.6	-657.2	1,033.0	1,005.8	27.20	37.981		
4,800.0	4,728.3	4,667.5	4,586.5	16.4	16.7	-122.39	-586.1	-672.2	1,056.3	1,028.5	27.82	37.969		
4,900.0	4,826.6	4,764.7	4,681.7	16.8	17.1	-122.42	-598.7	-687.1	1,079.7	1,051.2	28.44	37.957		
5,000.0	4,924.9	4,862.0	4,777.0	17.2	17.5	-122.45	-611.2	-702.1	1,103.0	1,073.9	29.07	37.946		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design											Sec 6 T6S R96W (F06 696) - Chevron 6-33D - DD - Plan #2		Offset Site Error:		0.0 ft
Survey Program:											0-MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance								
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)					
5,100.0	5,023.2	4,959.2	4,872.3	17.5	17.9	-122.47	-623.7	-717.0	1,126.4	1,096.7	29.69	37.935			
5,200.0	5,121.5	5,056.4	4,967.5	17.9	18.3	-122.50	-636.3	-732.0	1,149.7	1,119.4	30.32	37.925			
5,300.0	5,219.8	5,153.7	5,062.8	18.3	18.6	-122.52	-648.8	-746.9	1,173.1	1,142.1	30.94	37.915			
5,400.0	5,318.1	5,250.9	5,158.0	18.6	19.0	-122.55	-661.4	-761.9	1,196.4	1,164.8	31.56	37.905			
5,500.0	5,416.4	5,348.2	5,253.3	19.0	19.4	-122.57	-673.9	-776.8	1,219.8	1,187.6	32.19	37.896 SF			

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-34D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-143.32	-48.1	-35.8	60.0					
100.0	100.0	100.0	100.0	0.1	0.1	-143.32	-48.1	-35.8	60.0	59.7	0.27	220.185		
200.0	200.0	200.0	200.0	0.3	0.3	-143.32	-48.1	-35.8	60.0	59.3	0.62	96.485		
285.7	285.7	285.7	285.7	0.5	0.5	-90.00	-48.1	-35.8	59.9	59.0	0.92	64.894 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-90.44	-48.1	-35.8	59.9	59.0	0.97	61.527		
400.0	399.8	399.8	399.8	0.7	0.7	-95.42	-48.1	-35.8	60.2	58.9	1.34	44.802 ES		
500.0	499.5	499.5	499.5	0.9	0.8	-103.45	-48.1	-35.8	61.6	59.9	1.74	35.427		
600.0	598.7	597.2	597.2	1.2	1.0	-112.48	-48.9	-37.3	66.7	64.5	2.16	30.871		
700.0	697.5	694.8	694.6	1.5	1.2	-120.13	-51.2	-41.6	76.8	74.2	2.60	29.494 SF		
800.0	795.8	792.0	791.5	1.8	1.4	-125.45	-55.2	-48.9	91.1	88.0	3.06	29.722		
900.0	894.1	889.1	887.9	2.2	1.6	-127.78	-60.6	-59.0	107.4	103.8	3.56	30.170		
1,000.0	992.4	985.8	983.5	2.5	1.9	-128.11	-67.7	-71.9	125.2	121.1	4.11	30.501		
1,100.0	1,090.7	1,082.7	1,078.7	2.9	2.2	-127.23	-76.1	-87.6	144.4	139.7	4.70	30.749		
1,200.0	1,189.0	1,180.7	1,175.0	3.3	2.5	-126.31	-85.0	-104.0	164.0	158.7	5.31	30.873		
1,300.0	1,287.4	1,278.8	1,271.2	3.6	2.9	-125.59	-93.9	-120.4	183.5	177.6	5.93	30.932		
1,400.0	1,385.7	1,376.8	1,367.4	4.0	3.2	-125.01	-102.8	-136.9	203.1	196.6	6.56	30.955		
1,500.0	1,484.0	1,474.9	1,463.7	4.3	3.6	-124.53	-111.7	-153.3	222.7	215.5	7.19	30.957		
1,600.0	1,582.3	1,572.9	1,559.9	4.7	3.9	-124.13	-120.6	-169.7	242.3	234.5	7.83	30.948		
1,700.0	1,680.6	1,670.9	1,656.2	5.1	4.3	-123.79	-129.5	-186.2	262.0	253.5	8.47	30.933		
1,800.0	1,778.9	1,769.0	1,752.4	5.4	4.6	-123.49	-138.4	-202.6	281.6	272.5	9.11	30.914		
1,900.0	1,877.2	1,867.0	1,848.7	5.8	5.0	-123.24	-147.3	-219.0	301.2	291.5	9.75	30.894		
2,000.0	1,975.5	1,965.1	1,944.9	6.2	5.4	-123.01	-156.2	-235.5	320.9	310.5	10.39	30.874		
2,100.0	2,073.9	2,063.1	2,041.2	6.5	5.7	-122.82	-165.1	-251.9	340.5	329.5	11.04	30.854		
2,200.0	2,172.2	2,161.2	2,137.4	6.9	6.1	-122.64	-174.0	-268.3	360.2	348.5	11.68	30.834		
2,300.0	2,270.5	2,259.2	2,233.7	7.3	6.5	-122.48	-182.9	-284.8	379.9	367.5	12.33	30.815		
2,400.0	2,368.8	2,357.2	2,329.9	7.6	6.8	-122.34	-191.8	-301.2	399.5	386.5	12.97	30.797		
2,500.0	2,467.1	2,455.3	2,426.2	8.0	7.2	-122.21	-200.7	-317.6	419.2	405.6	13.62	30.780		
2,600.0	2,565.4	2,553.3	2,522.4	8.4	7.6	-122.09	-209.6	-334.1	438.8	424.6	14.26	30.764		
2,700.0	2,663.7	2,651.4	2,618.6	8.7	7.9	-121.98	-218.5	-350.5	458.5	443.6	14.91	30.748		
2,800.0	2,762.0	2,749.4	2,714.9	9.1	8.3	-121.88	-227.4	-366.9	478.2	462.6	15.56	30.734		
2,900.0	2,860.3	2,847.5	2,811.1	9.5	8.7	-121.79	-236.3	-383.4	497.8	481.6	16.21	30.720		
3,000.0	2,958.7	2,945.5	2,907.4	9.8	9.1	-121.71	-245.2	-399.8	517.5	500.7	16.85	30.707		
3,100.0	3,057.0	3,043.6	3,003.6	10.2	9.4	-121.63	-254.1	-416.2	537.2	519.7	17.50	30.694		
3,200.0	3,155.3	3,141.6	3,099.9	10.6	9.8	-121.56	-263.0	-432.7	556.9	538.7	18.15	30.682		
3,300.0	3,253.6	3,239.6	3,196.1	10.9	10.2	-121.49	-271.9	-449.1	576.5	557.7	18.80	30.671		
3,400.0	3,351.9	3,337.7	3,292.4	11.3	10.5	-121.43	-280.8	-465.5	596.2	576.8	19.45	30.661		
3,500.0	3,450.2	3,435.7	3,388.6	11.7	10.9	-121.37	-289.7	-482.0	615.9	595.8	20.09	30.650		
3,600.0	3,548.5	3,533.8	3,484.9	12.0	11.3	-121.31	-298.6	-498.4	635.5	614.8	20.74	30.641		
3,700.0	3,646.8	3,631.8	3,581.1	12.4	11.6	-121.26	-307.5	-514.8	655.2	633.8	21.39	30.632		
3,800.0	3,745.1	3,729.9	3,677.3	12.8	12.0	-121.21	-316.4	-531.3	674.9	652.9	22.04	30.623		
3,900.0	3,843.5	3,827.9	3,773.6	13.1	12.4	-121.17	-325.3	-547.7	694.6	671.9	22.69	30.615		
4,000.0	3,941.8	3,925.9	3,869.8	13.5	12.8	-121.12	-334.2	-564.1	714.2	690.9	23.34	30.607		
4,100.0	4,040.1	4,024.0	3,966.1	13.9	13.1	-121.08	-343.1	-580.6	733.9	709.9	23.99	30.599		
4,200.0	4,138.4	4,122.0	4,062.3	14.2	13.5	-121.04	-352.0	-597.0	753.6	729.0	24.63	30.592		
4,300.0	4,236.7	4,220.1	4,158.6	14.6	13.9	-121.00	-360.9	-613.5	773.3	748.0	25.28	30.585		
4,400.0	4,335.0	4,318.1	4,254.8	15.0	14.2	-120.97	-369.8	-629.9	793.0	767.0	25.93	30.579		
4,500.0	4,433.3	4,416.2	4,351.1	15.3	14.6	-120.94	-378.7	-646.3	812.6	786.1	26.58	30.572		
4,600.0	4,531.6	4,514.2	4,447.3	15.7	15.0	-120.90	-387.6	-662.8	832.3	805.1	27.23	30.566		
4,700.0	4,630.0	4,612.3	4,543.6	16.1	15.4	-120.87	-396.5	-679.2	852.0	824.1	27.88	30.560		
4,800.0	4,728.3	4,710.3	4,639.8	16.4	15.7	-120.84	-405.4	-695.6	871.7	843.1	28.53	30.555		
4,900.0	4,826.6	4,808.3	4,736.1	16.8	16.1	-120.82	-414.3	-712.1	891.3	862.2	29.18	30.549		
5,000.0	4,924.9	4,906.4	4,832.3	17.2	16.5	-120.79	-423.2	-728.5	911.0	881.2	29.83	30.544		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-34D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,023.2	5,004.4	4,928.5	17.5	16.8	-120.76	-432.1	-744.9	930.7	900.2	30.48	30.539		
5,200.0	5,121.5	5,102.5	5,024.8	17.9	17.2	-120.74	-441.0	-761.4	950.4	919.3	31.12	30.534		
5,300.0	5,219.8	5,200.5	5,121.0	18.3	17.6	-120.72	-449.9	-777.8	970.1	938.3	31.77	30.530		
5,400.0	5,318.1	5,298.6	5,217.3	18.6	18.0	-120.69	-458.8	-794.2	989.7	957.3	32.42	30.525		
5,500.0	5,416.4	5,396.6	5,313.5	19.0	18.3	-120.67	-467.7	-810.7	1,009.4	976.3	33.07	30.521		
5,600.0	5,514.8	5,494.6	5,409.8	19.4	18.7	-120.65	-476.6	-827.1	1,029.1	995.4	33.72	30.517		
5,700.0	5,613.1	5,592.7	5,506.0	19.7	19.1	-120.63	-485.6	-843.5	1,048.8	1,014.4	34.37	30.513		
5,800.0	5,711.4	5,690.7	5,602.3	20.1	19.4	-120.61	-494.5	-860.0	1,068.5	1,033.4	35.02	30.509		
5,900.0	5,809.7	5,788.8	5,698.5	20.5	19.8	-120.59	-503.4	-876.4	1,088.1	1,052.5	35.67	30.505		
6,000.0	5,908.0	5,886.8	5,794.8	20.8	20.2	-120.57	-512.3	-892.8	1,107.8	1,071.5	36.32	30.502		
6,100.0	6,006.3	5,984.9	5,891.0	21.2	20.6	-120.56	-521.2	-909.3	1,127.5	1,090.5	36.97	30.498		
6,200.0	6,104.6	6,082.9	5,987.3	21.6	20.9	-120.54	-530.1	-925.7	1,147.2	1,109.6	37.62	30.495		
6,300.0	6,202.9	6,181.0	6,083.5	21.9	21.3	-120.52	-539.0	-942.1	1,166.9	1,128.6	38.27	30.491		
6,400.0	6,301.2	6,279.0	6,179.7	22.3	21.7	-120.51	-547.9	-958.6	1,186.5	1,147.6	38.92	30.488		
6,500.0	6,399.6	6,377.0	6,276.0	22.7	22.0	-120.49	-556.8	-975.0	1,206.2	1,166.6	39.57	30.485		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-35D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-143.39	-36.1	-26.8	44.9					
100.0	100.0	100.0	100.0	0.1	0.1	-143.39	-36.1	-26.8	44.9	44.6	0.27	164.984		
200.0	200.0	200.0	200.0	0.3	0.3	-143.39	-36.1	-26.8	44.9	44.3	0.62	72.296		
272.0	272.0	272.0	272.0	0.4	0.4	-90.00	-36.1	-26.8	44.9	44.0	0.88	51.325 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-91.07	-36.1	-26.8	44.9	43.9	0.97	46.110 ES		
400.0	399.8	398.8	398.8	0.7	0.7	-95.96	-36.4	-28.5	46.4	45.1	1.34	34.550		
500.0	499.5	497.6	497.4	0.9	0.8	-101.17	-37.4	-33.5	50.9	49.2	1.75	29.079		
600.0	598.7	596.2	595.7	1.2	1.1	-105.83	-39.0	-41.8	58.5	56.3	2.21	26.402		
700.0	697.5	694.5	693.2	1.5	1.3	-109.51	-41.3	-53.4	69.1	66.3	2.75	25.105		
800.0	795.8	792.6	790.1	1.8	1.6	-111.78	-44.2	-68.2	82.2	78.9	3.34	24.602		
900.0	894.1	891.6	887.8	2.2	1.9	-112.76	-47.5	-84.6	96.1	92.1	3.96	24.264		
1,000.0	992.4	990.6	985.4	2.5	2.2	-113.50	-50.7	-100.9	109.9	105.3	4.59	23.959		
1,100.0	1,090.7	1,089.6	1,083.0	2.9	2.6	-114.07	-53.9	-117.3	123.8	118.6	5.23	23.695		
1,200.0	1,189.0	1,188.7	1,180.6	3.3	2.9	-114.52	-57.1	-133.7	137.7	131.8	5.87	23.468		
1,300.0	1,287.4	1,287.7	1,278.2	3.6	3.2	-114.89	-60.4	-150.0	151.6	145.1	6.51	23.274		
1,400.0	1,385.7	1,386.7	1,375.8	4.0	3.6	-115.20	-63.6	-166.4	165.5	158.4	7.16	23.107		
1,500.0	1,484.0	1,485.7	1,473.4	4.3	3.9	-115.46	-66.8	-182.7	179.4	171.6	7.81	22.963		
1,600.0	1,582.3	1,584.8	1,571.0	4.7	4.2	-115.69	-70.1	-199.1	193.4	184.9	8.47	22.837		
1,700.0	1,680.6	1,683.8	1,668.6	5.1	4.6	-115.88	-73.3	-215.5	207.3	198.2	9.12	22.726		
1,800.0	1,778.9	1,782.8	1,766.2	5.4	4.9	-116.05	-76.5	-231.8	221.2	211.4	9.78	22.628		
1,900.0	1,877.2	1,881.8	1,863.9	5.8	5.3	-116.20	-79.7	-248.2	235.1	224.7	10.43	22.541		
2,000.0	1,975.5	1,980.9	1,961.5	6.2	5.6	-116.33	-83.0	-264.6	249.1	238.0	11.09	22.463		
2,100.0	2,073.9	2,079.9	2,059.1	6.5	5.9	-116.45	-86.2	-280.9	263.0	251.2	11.74	22.393		
2,200.0	2,172.2	2,178.9	2,156.7	6.9	6.3	-116.56	-89.4	-297.3	276.9	264.5	12.40	22.330		
2,300.0	2,270.5	2,277.9	2,254.3	7.3	6.6	-116.65	-92.7	-313.6	290.8	277.8	13.06	22.272		
2,400.0	2,368.8	2,377.0	2,351.9	7.6	7.0	-116.74	-95.9	-330.0	304.8	291.0	13.72	22.220		
2,500.0	2,467.1	2,476.0	2,449.5	8.0	7.3	-116.82	-99.1	-346.4	318.7	304.3	14.37	22.172		
2,600.0	2,565.4	2,575.0	2,547.1	8.4	7.6	-116.89	-102.3	-362.7	332.6	317.6	15.03	22.128		
2,700.0	2,663.7	2,674.0	2,644.7	8.7	8.0	-116.96	-105.6	-379.1	346.5	330.9	15.69	22.087		
2,800.0	2,762.0	2,773.0	2,742.3	9.1	8.3	-117.02	-108.8	-395.4	360.5	344.1	16.35	22.049		
2,900.0	2,860.3	2,872.1	2,840.0	9.5	8.7	-117.08	-112.0	-411.8	374.4	357.4	17.01	22.015		
3,000.0	2,958.7	2,971.1	2,937.6	9.8	9.0	-117.14	-115.2	-428.2	388.3	370.7	17.67	21.982		
3,100.0	3,057.0	3,070.1	3,035.2	10.2	9.3	-117.18	-118.5	-444.5	402.3	383.9	18.33	21.952		
3,200.0	3,155.3	3,169.1	3,132.8	10.6	9.7	-117.23	-121.7	-460.9	416.2	397.2	18.98	21.924		
3,300.0	3,253.6	3,268.2	3,230.4	10.9	10.0	-117.27	-124.9	-477.2	430.1	410.5	19.64	21.897		
3,400.0	3,351.9	3,367.2	3,328.0	11.3	10.4	-117.32	-128.2	-493.6	444.1	423.8	20.30	21.872		
3,500.0	3,450.2	3,466.2	3,425.6	11.7	10.7	-117.35	-131.4	-510.0	458.0	437.0	20.96	21.849		
3,600.0	3,548.5	3,565.2	3,523.2	12.0	11.0	-117.39	-134.6	-526.3	471.9	450.3	21.62	21.827		
3,700.0	3,646.8	3,664.3	3,620.8	12.4	11.4	-117.42	-137.8	-542.7	485.9	463.6	22.28	21.806		
3,800.0	3,745.1	3,763.3	3,718.4	12.8	11.7	-117.46	-141.1	-559.1	499.8	476.9	22.94	21.787		
3,900.0	3,843.5	3,862.3	3,816.1	13.1	12.1	-117.49	-144.3	-575.4	513.7	490.1	23.60	21.768		
4,000.0	3,941.8	3,961.3	3,913.7	13.5	12.4	-117.51	-147.5	-591.8	527.7	503.4	24.26	21.751		
4,100.0	4,040.1	4,060.4	4,011.3	13.9	12.7	-117.54	-150.8	-608.1	541.6	516.7	24.92	21.734		
4,200.0	4,138.4	4,159.4	4,108.9	14.2	13.1	-117.57	-154.0	-624.5	555.5	530.0	25.58	21.718		
4,300.0	4,236.7	4,258.4	4,206.5	14.6	13.4	-117.59	-157.2	-640.9	569.5	543.2	26.24	21.703		
4,400.0	4,335.0	4,357.4	4,304.1	15.0	13.8	-117.61	-160.4	-657.2	583.4	556.5	26.90	21.689		
4,500.0	4,433.3	4,456.5	4,401.7	15.3	14.1	-117.64	-163.7	-673.6	597.3	569.8	27.56	21.675		
4,600.0	4,531.6	4,555.5	4,499.3	15.7	14.5	-117.66	-166.9	-689.9	611.3	583.0	28.22	21.662		
4,700.0	4,630.0	4,654.5	4,596.9	16.1	14.8	-117.68	-170.1	-706.3	625.2	596.3	28.88	21.649		
4,800.0	4,728.3	4,753.5	4,694.5	16.4	15.1	-117.70	-173.4	-722.7	639.1	609.6	29.54	21.638		
4,900.0	4,826.6	4,852.6	4,792.1	16.8	15.5	-117.72	-176.6	-739.0	653.1	622.9	30.20	21.626		
5,000.0	4,924.9	4,951.6	4,889.8	17.2	15.8	-117.73	-179.8	-755.4	667.0	636.1	30.86	21.615		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,023.2	5,050.6	4,987.4	17.5	16.2	-117.75	-183.0	-771.7	680.9	649.4	31.52	21.605		
5,200.0	5,121.5	5,149.6	5,085.0	17.9	16.5	-117.77	-186.3	-788.1	694.9	662.7	32.18	21.594		
5,300.0	5,219.8	5,248.7	5,182.6	18.3	16.8	-117.78	-189.5	-804.5	708.8	676.0	32.84	21.585		
5,400.0	5,318.1	5,347.7	5,280.2	18.6	17.2	-117.80	-192.7	-820.8	722.7	689.2	33.50	21.575		
5,500.0	5,416.4	5,446.7	5,377.8	19.0	17.5	-117.81	-195.9	-837.2	736.7	702.5	34.16	21.566		
5,600.0	5,514.8	5,545.7	5,475.4	19.4	17.9	-117.83	-199.2	-853.6	750.6	715.8	34.82	21.558		
5,700.0	5,613.1	5,644.8	5,573.0	19.7	18.2	-117.84	-202.4	-869.9	764.5	729.1	35.48	21.549		
5,800.0	5,711.4	5,743.8	5,670.6	20.1	18.6	-117.85	-205.6	-886.3	778.5	742.3	36.14	21.541		
5,900.0	5,809.7	5,842.8	5,768.2	20.5	18.9	-117.87	-208.9	-902.6	792.4	755.6	36.80	21.534		
6,000.0	5,908.0	5,941.8	5,865.9	20.8	19.2	-117.88	-212.1	-919.0	806.3	768.9	37.46	21.526		
6,100.0	6,006.3	6,040.8	5,963.5	21.2	19.6	-117.89	-215.3	-935.4	820.3	782.2	38.12	21.519		
6,200.0	6,104.6	6,139.9	6,061.1	21.6	19.9	-117.90	-218.5	-951.7	834.2	795.4	38.78	21.512		
6,300.0	6,202.9	6,238.9	6,158.7	21.9	20.3	-117.91	-221.8	-968.1	848.1	808.7	39.44	21.505		
6,400.0	6,301.2	6,337.9	6,256.3	22.3	20.6	-117.92	-225.0	-984.4	862.1	822.0	40.10	21.499		
6,500.0	6,399.6	6,436.9	6,353.9	22.7	20.9	-117.93	-228.2	-1,000.8	876.0	835.3	40.76	21.492		
6,600.0	6,497.9	6,536.0	6,451.5	23.0	21.3	-117.94	-231.5	-1,017.2	890.0	848.5	41.42	21.486		
6,700.0	6,596.2	6,635.0	6,549.1	23.4	21.6	-117.95	-234.7	-1,033.5	903.9	861.8	42.08	21.480		
6,800.0	6,694.5	6,734.0	6,646.7	23.8	22.0	-117.96	-237.9	-1,049.9	917.8	875.1	42.74	21.474		
6,900.0	6,792.8	6,833.0	6,744.3	24.1	22.3	-118.00	-241.1	-1,066.2	931.7	888.3	43.40	21.467		
7,000.0	6,891.5	6,942.1	6,852.1	24.4	22.6	-118.20	-244.4	-1,082.7	944.2	900.2	44.03	21.446		
7,100.0	6,990.7	7,052.9	6,962.2	24.7	22.9	-118.38	-246.9	-1,095.3	953.8	909.3	44.54	21.414		
7,200.0	7,090.3	7,164.2	7,073.1	24.9	23.1	-118.55	-248.5	-1,103.7	960.6	915.7	44.94	21.373		
7,300.0	7,190.1	7,275.6	7,184.4	25.0	23.2	-118.70	-249.4	-1,107.9	964.5	919.3	45.24	21.322		
7,400.0	7,290.1	7,380.0	7,288.8	25.1	23.4	-118.82	-249.5	-1,108.5	965.8	920.4	45.44	21.252		
7,500.0	7,390.1	7,477.5	7,386.3	25.2	23.5	-53.45	-249.7	-1,108.8	966.0	920.3	45.65	21.160		
7,600.0	7,490.1	7,575.1	7,483.9	25.3	23.6	-53.44	-250.1	-1,109.6	966.1	920.3	45.87	21.062		
7,700.0	7,590.0	7,672.6	7,581.4	25.4	23.7	-53.43	-250.7	-1,110.6	966.3	920.2	46.10	20.961		
7,800.0	7,690.0	7,772.3	7,681.0	25.5	23.8	-53.42	-251.5	-1,112.0	966.4	920.0	46.34	20.855		
7,900.0	7,790.0	7,872.3	7,781.0	25.6	23.9	-53.42	-252.3	-1,113.3	966.4	919.8	46.58	20.748		
8,000.0	7,890.0	7,972.3	7,881.0	25.7	24.0	-53.42	-253.1	-1,114.7	966.4	919.5	46.82	20.641		
8,100.0	7,990.0	8,072.3	7,981.0	25.8	24.2	-53.42	-253.9	-1,116.0	966.4	919.3	47.06	20.534		
8,200.0	8,090.0	8,172.3	8,081.0	25.9	24.3	-53.42	-254.6	-1,117.4	966.4	919.1	47.30	20.428		
8,300.0	8,190.0	8,272.3	8,181.0	26.0	24.4	-53.42	-255.4	-1,118.7	966.4	918.8	47.55	20.323		
8,400.0	8,290.0	8,372.3	8,281.0	26.2	24.5	-53.42	-256.2	-1,120.1	966.4	918.6	47.80	20.218		
8,500.0	8,390.0	8,472.3	8,381.0	26.3	24.7	-53.42	-257.0	-1,121.4	966.4	918.3	48.05	20.114		
8,600.0	8,489.9	8,572.3	8,480.9	26.4	24.8	-53.42	-257.8	-1,122.8	966.4	918.1	48.29	20.010		
8,700.0	8,589.9	8,672.3	8,580.9	26.5	24.9	-53.42	-258.5	-1,124.1	966.4	917.8	48.55	19.907		
8,800.0	8,689.9	8,772.3	8,680.9	26.6	25.0	-53.42	-259.3	-1,125.5	966.4	917.6	48.80	19.804		
8,900.0	8,789.9	8,872.3	8,780.9	26.7	25.2	-53.43	-260.1	-1,126.8	966.4	917.3	49.05	19.702		
9,000.0	8,889.9	8,972.3	8,880.9	26.8	25.3	-53.43	-260.9	-1,128.1	966.4	917.1	49.30	19.601		
9,100.0	8,989.9	9,072.3	8,980.9	26.9	25.4	-53.43	-261.7	-1,129.5	966.4	916.8	49.56	19.500		
9,200.0	9,089.9	9,172.3	9,080.9	27.0	25.5	-53.43	-262.4	-1,130.8	966.4	916.6	49.82	19.399		
9,300.0	9,189.9	9,272.3	9,180.9	27.1	25.7	-53.43	-263.2	-1,132.2	966.4	916.3	50.07	19.299		
9,400.0	9,289.8	9,372.3	9,280.9	27.3	25.8	-53.43	-264.0	-1,133.5	966.4	916.1	50.33	19.200		
9,500.0	9,389.8	9,472.3	9,380.8	27.4	25.9	-53.43	-264.8	-1,134.9	966.4	915.8	50.59	19.101		
9,600.0	9,489.8	9,572.3	9,480.8	27.5	26.1	-53.43	-265.5	-1,136.2	966.4	915.6	50.85	19.003		
9,700.0	9,589.8	9,672.3	9,580.8	27.6	26.2	-53.43	-266.3	-1,137.6	966.4	915.3	51.12	18.906		
9,800.0	9,689.8	9,772.3	9,680.8	27.7	26.3	-53.43	-267.1	-1,138.9	966.4	915.0	51.38	18.809		
9,900.0	9,789.8	9,872.3	9,780.8	27.8	26.5	-53.43	-267.9	-1,140.3	966.4	914.8	51.64	18.713		
10,000.0	9,889.8	9,972.3	9,880.8	28.0	26.6	-53.43	-268.7	-1,141.6	966.4	914.5	51.91	18.617		
10,100.0	9,989.8	10,072.3	9,980.8	28.1	26.7	-53.43	-269.4	-1,143.0	966.4	914.3	52.18	18.522		
10,164.2	10,054.0	10,080.5	9,989.0	28.2	26.7	-53.43	-269.5	-1,143.1	968.1	915.8	52.27	18.519 SF		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-143.54	-24.0	-17.8	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	-143.54	-24.0	-17.8	29.9	29.6	0.27	109.784		
200.0	200.0	200.0	200.0	0.3	0.3	-143.54	-24.0	-17.8	29.9	29.3	0.62	48.108 CC, ES		
300.0	300.0	299.4	299.4	0.5	0.5	-89.48	-23.9	-19.5	30.8	29.8	0.98	31.541		
400.0	399.8	398.8	398.7	0.7	0.7	-90.79	-23.5	-24.6	33.5	32.1	1.36	24.599		
500.0	499.5	498.1	497.6	0.9	0.9	-92.56	-22.9	-33.2	38.0	36.2	1.80	21.092		
600.0	598.7	597.3	596.0	1.2	1.2	-94.40	-22.0	-45.2	44.3	42.0	2.32	19.127		
700.0	697.5	696.5	694.0	1.5	1.5	-96.33	-20.8	-60.3	52.4	49.5	2.92	17.980		
800.0	795.8	796.0	792.3	1.8	1.8	-99.62	-19.6	-76.2	61.2	57.7	3.56	17.222		
900.0	894.1	895.6	890.6	2.2	2.1	-102.21	-18.4	-92.0	70.2	66.0	4.21	16.689		
1,000.0	992.4	995.1	988.9	2.5	2.4	-104.21	-17.2	-107.9	79.3	74.4	4.86	16.303		
1,100.0	1,090.7	1,094.7	1,087.1	2.9	2.7	-105.80	-16.0	-123.7	88.5	82.9	5.52	16.015		
1,200.0	1,189.0	1,194.2	1,185.4	3.3	3.1	-107.09	-14.8	-139.6	97.7	91.5	6.19	15.793		
1,300.0	1,287.4	1,293.8	1,283.7	3.6	3.4	-108.16	-13.6	-155.4	107.0	100.1	6.85	15.618		
1,400.0	1,385.7	1,393.3	1,382.0	4.0	3.7	-109.06	-12.3	-171.3	116.2	108.7	7.51	15.478		
1,500.0	1,484.0	1,492.9	1,480.2	4.3	4.0	-109.82	-11.1	-187.1	125.6	117.4	8.17	15.363		
1,600.0	1,582.3	1,592.4	1,578.5	4.7	4.4	-110.48	-9.9	-203.0	134.9	126.1	8.84	15.268		
1,700.0	1,680.6	1,692.0	1,676.8	5.1	4.7	-111.06	-8.7	-218.8	144.2	134.7	9.50	15.187		
1,800.0	1,778.9	1,791.5	1,775.1	5.4	5.0	-111.56	-7.5	-234.7	153.6	143.4	10.16	15.119		
1,900.0	1,877.2	1,891.1	1,873.3	5.8	5.4	-112.01	-6.3	-250.5	163.0	152.2	10.82	15.060		
2,000.0	1,975.5	1,990.6	1,971.6	6.2	5.7	-112.40	-5.1	-266.4	172.4	160.9	11.48	15.008		
2,100.0	2,073.9	2,090.2	2,069.9	6.5	6.0	-112.76	-3.9	-282.2	181.8	169.6	12.15	14.963		
2,200.0	2,172.2	2,189.8	2,168.2	6.9	6.3	-113.08	-2.7	-298.1	191.2	178.3	12.81	14.923		
2,300.0	2,270.5	2,289.3	2,266.4	7.3	6.7	-113.37	-1.5	-313.9	200.6	187.1	13.47	14.888		
2,400.0	2,368.8	2,388.9	2,364.7	7.6	7.0	-113.64	-0.3	-329.8	210.0	195.8	14.13	14.856		
2,500.0	2,467.1	2,488.4	2,463.0	8.0	7.3	-113.88	0.9	-345.6	219.4	204.6	14.79	14.828		
2,600.0	2,565.4	2,588.0	2,561.2	8.4	7.7	-114.10	2.1	-361.5	228.8	213.3	15.46	14.802		
2,700.0	2,663.7	2,687.5	2,659.5	8.7	8.0	-114.31	3.4	-377.3	238.2	222.1	16.12	14.779		
2,800.0	2,762.0	2,787.1	2,757.8	9.1	8.3	-114.49	4.6	-393.2	247.6	230.8	16.78	14.758		
2,900.0	2,860.3	2,886.6	2,856.1	9.5	8.7	-114.67	5.8	-409.0	257.0	239.6	17.44	14.738		
3,000.0	2,958.7	2,986.2	2,954.3	9.8	9.0	-114.83	7.0	-424.9	266.5	248.4	18.10	14.720		
3,100.0	3,057.0	3,085.7	3,052.6	10.2	9.3	-114.98	8.2	-440.7	275.9	257.1	18.76	14.704		
3,200.0	3,155.3	3,185.3	3,150.9	10.6	9.6	-115.13	9.4	-456.6	285.3	265.9	19.42	14.689		
3,300.0	3,253.6	3,284.8	3,249.2	10.9	10.0	-115.26	10.6	-472.4	294.7	274.7	20.09	14.675		
3,400.0	3,351.9	3,384.4	3,347.4	11.3	10.3	-115.38	11.8	-488.3	304.2	283.4	20.75	14.662		
3,500.0	3,450.2	3,483.9	3,445.7	11.7	10.6	-115.50	13.0	-504.1	313.6	292.2	21.41	14.649		
3,600.0	3,548.5	3,583.5	3,544.0	12.0	11.0	-115.61	14.2	-520.0	323.0	301.0	22.07	14.638		
3,700.0	3,646.8	3,683.0	3,642.3	12.4	11.3	-115.71	15.4	-535.8	332.5	309.8	22.73	14.627		
3,800.0	3,745.1	3,782.6	3,740.5	12.8	11.6	-115.81	16.6	-551.7	341.9	318.5	23.39	14.618		
3,900.0	3,843.5	3,882.1	3,838.8	13.1	12.0	-115.91	17.8	-567.5	351.4	327.3	24.05	14.608		
4,000.0	3,941.8	3,981.7	3,937.1	13.5	12.3	-115.99	19.0	-583.4	360.8	336.1	24.71	14.599		
4,100.0	4,040.1	4,081.2	4,035.4	13.9	12.6	-116.08	20.3	-599.2	370.2	344.9	25.37	14.591		
4,200.0	4,138.4	4,180.8	4,133.6	14.2	12.9	-116.16	21.5	-615.1	379.7	353.6	26.03	14.583		
4,300.0	4,236.7	4,280.3	4,231.9	14.6	13.3	-116.23	22.7	-630.9	389.1	362.4	26.70	14.576		
4,400.0	4,335.0	4,379.9	4,330.2	15.0	13.6	-116.30	23.9	-646.8	398.6	371.2	27.36	14.569		
4,500.0	4,433.3	4,479.5	4,428.5	15.3	13.9	-116.37	25.1	-662.6	408.0	380.0	28.02	14.562		
4,600.0	4,531.6	4,579.0	4,526.7	15.7	14.3	-116.44	26.3	-678.5	417.4	388.8	28.68	14.556		
4,700.0	4,630.0	4,678.6	4,625.0	16.1	14.6	-116.50	27.5	-694.3	426.9	397.5	29.34	14.550		
4,800.0	4,728.3	4,778.1	4,723.3	16.4	14.9	-116.56	28.7	-710.2	436.3	406.3	30.00	14.544		
4,900.0	4,826.6	4,877.7	4,821.6	16.8	15.3	-116.62	29.9	-726.0	445.8	415.1	30.66	14.539		
5,000.0	4,924.9	4,977.2	4,919.8	17.2	15.6	-116.67	31.1	-741.9	455.2	423.9	31.32	14.533		
5,100.0	5,023.2	5,076.8	5,018.1	17.5	15.9	-116.73	32.3	-757.7	464.7	432.7	31.98	14.528		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,121.5	5,176.3	5,116.4	17.9	16.2	-116.78	33.5	-773.6	474.1	441.5	32.64	14.524		
5,300.0	5,219.8	5,275.9	5,214.7	18.3	16.6	-116.83	34.7	-789.4	483.5	450.2	33.30	14.519		
5,400.0	5,318.1	5,375.4	5,312.9	18.6	16.9	-116.87	36.0	-805.3	493.0	459.0	33.96	14.515		
5,500.0	5,416.4	5,475.0	5,411.2	19.0	17.2	-116.92	37.2	-821.1	502.4	467.8	34.62	14.511		
5,600.0	5,514.8	5,574.5	5,509.5	19.4	17.6	-116.96	38.4	-837.0	511.9	476.6	35.29	14.507		
5,700.0	5,613.1	5,674.1	5,607.8	19.7	17.9	-117.00	39.6	-852.8	521.3	485.4	35.95	14.503		
5,800.0	5,711.4	5,773.6	5,706.0	20.1	18.2	-117.04	40.8	-868.7	530.8	494.2	36.61	14.499		
5,900.0	5,809.7	5,873.2	5,804.3	20.5	18.6	-117.08	42.0	-884.5	540.2	502.9	37.27	14.496		
6,000.0	5,908.0	5,972.7	5,902.6	20.8	18.9	-117.12	43.2	-900.4	549.7	511.7	37.93	14.492		
6,100.0	6,006.3	6,072.3	6,000.9	21.2	19.2	-117.16	44.4	-916.2	559.1	520.5	38.59	14.489		
6,200.0	6,104.6	6,171.8	6,099.1	21.6	19.5	-117.19	45.6	-932.1	568.6	529.3	39.25	14.486		
6,300.0	6,202.9	6,271.4	6,197.4	21.9	19.9	-117.23	46.8	-947.9	578.0	538.1	39.91	14.483		
6,400.0	6,301.2	6,370.9	6,295.7	22.3	20.2	-117.26	48.0	-963.8	587.5	546.9	40.57	14.480		
6,500.0	6,399.6	6,470.5	6,394.0	22.7	20.5	-117.29	49.2	-979.6	596.9	555.7	41.23	14.477		
6,600.0	6,497.9	6,570.0	6,492.2	23.0	20.9	-117.32	50.4	-995.5	606.3	564.5	41.89	14.474		
6,700.0	6,596.2	6,669.6	6,590.5	23.4	21.2	-117.35	51.7	-1,011.3	615.8	573.2	42.55	14.471		
6,800.0	6,694.5	6,769.2	6,688.8	23.8	21.5	-117.38	52.9	-1,027.2	625.2	582.0	43.21	14.469		
6,900.0	6,792.8	6,868.7	6,787.1	24.1	21.9	-117.43	54.1	-1,043.0	634.7	590.8	43.87	14.466		
7,000.0	6,891.5	6,969.3	6,886.5	24.4	22.2	-117.52	55.2	-1,058.0	643.1	598.6	44.47	14.462		
7,100.0	6,990.7	7,070.4	6,987.0	24.7	22.4	-117.60	56.1	-1,069.7	649.6	604.7	44.96	14.451		
7,200.0	7,090.3	7,171.6	7,087.9	24.9	22.6	-117.69	56.7	-1,077.9	654.4	609.0	45.34	14.433		
7,300.0	7,190.1	7,272.9	7,189.0	25.0	22.7	-117.79	57.1	-1,082.5	657.3	611.7	45.62	14.409		
7,400.0	7,290.1	7,373.6	7,289.7	25.1	22.8	-117.89	57.2	-1,083.6	658.4	612.6	45.82	14.371		
7,500.0	7,390.1	7,471.9	7,388.0	25.2	22.9	-52.52	57.0	-1,083.9	658.5	612.5	46.02	14.310		
7,600.0	7,490.1	7,570.2	7,486.2	25.3	23.0	-52.51	56.6	-1,084.5	658.6	612.4	46.24	14.245		
7,700.0	7,590.0	7,668.4	7,584.5	25.4	23.2	-52.50	56.1	-1,085.5	658.7	612.2	46.46	14.177		
7,800.0	7,690.0	7,767.7	7,683.8	25.5	23.3	-52.50	55.3	-1,086.8	658.7	612.0	46.70	14.106		
7,900.0	7,790.0	7,867.7	7,783.8	25.6	23.4	-52.50	54.5	-1,088.1	658.7	611.8	46.94	14.035		
8,000.0	7,890.0	7,967.7	7,883.8	25.7	23.5	-52.50	53.8	-1,089.5	658.7	611.6	47.18	13.964		
8,100.0	7,990.0	8,067.7	7,983.8	25.8	23.6	-52.50	53.0	-1,090.8	658.7	611.3	47.42	13.893		
8,200.0	8,090.0	8,167.7	8,083.7	25.9	23.8	-52.50	52.2	-1,092.2	658.7	611.1	47.66	13.822		
8,300.0	8,190.0	8,267.7	8,183.7	26.0	23.9	-52.50	51.4	-1,093.5	658.7	610.8	47.90	13.752		
8,400.0	8,290.0	8,367.7	8,283.7	26.2	24.0	-52.50	50.7	-1,094.9	658.7	610.6	48.15	13.682		
8,500.0	8,390.0	8,467.7	8,383.7	26.3	24.1	-52.50	49.9	-1,096.2	658.7	610.3	48.39	13.612		
8,600.0	8,489.9	8,567.7	8,483.7	26.4	24.3	-52.50	49.1	-1,097.6	658.7	610.1	48.64	13.543		
8,700.0	8,589.9	8,667.7	8,583.7	26.5	24.4	-52.50	48.3	-1,098.9	658.7	609.9	48.89	13.474		
8,800.0	8,689.9	8,767.7	8,683.7	26.6	24.5	-52.50	47.6	-1,100.3	658.7	609.6	49.14	13.406		
8,900.0	8,789.9	8,867.7	8,783.7	26.7	24.6	-52.50	46.8	-1,101.6	658.7	609.4	49.39	13.338		
9,000.0	8,889.9	8,967.7	8,883.7	26.8	24.8	-52.50	46.0	-1,103.0	658.7	609.1	49.64	13.270		
9,100.0	8,989.9	9,067.7	8,983.6	26.9	24.9	-52.50	45.2	-1,104.3	658.7	608.8	49.90	13.202		
9,200.0	9,089.9	9,167.7	9,083.6	27.0	25.0	-52.50	44.5	-1,105.6	658.7	608.6	50.15	13.135		
9,300.0	9,189.9	9,267.7	9,183.6	27.1	25.1	-52.50	43.7	-1,107.0	658.7	608.3	50.41	13.068		
9,400.0	9,289.8	9,367.7	9,283.6	27.3	25.3	-52.50	42.9	-1,108.3	658.7	608.1	50.66	13.002		
9,500.0	9,389.8	9,467.7	9,383.6	27.4	25.4	-52.50	42.1	-1,109.7	658.7	607.8	50.92	12.936		
9,600.0	9,489.8	9,567.7	9,483.6	27.5	25.5	-52.50	41.3	-1,111.0	658.7	607.6	51.18	12.871		
9,700.0	9,589.8	9,667.7	9,583.6	27.6	25.7	-52.50	40.6	-1,112.4	658.7	607.3	51.44	12.805		
9,800.0	9,689.8	9,767.7	9,683.6	27.7	25.8	-52.50	39.8	-1,113.7	658.7	607.0	51.70	12.741		
9,900.0	9,789.8	9,867.7	9,783.5	27.8	25.9	-52.50	39.0	-1,115.1	658.7	606.8	51.97	12.676		
10,000.0	9,889.8	9,967.7	9,883.5	28.0	26.1	-52.50	38.2	-1,116.4	658.7	606.5	52.23	12.612		
10,100.0	9,989.8	10,067.7	9,983.5	28.1	26.2	-52.51	37.5	-1,117.8	658.7	606.3	52.50	12.549		
10,119.9	10,009.7	10,087.6	10,003.4	28.1	26.2	-52.51	37.3	-1,118.0	658.7	606.2	52.55	12.536		
10,164.2	10,054.0	10,103.2	10,019.0	28.2	26.2	-52.51	37.2	-1,118.2	659.4	606.7	52.63	12.529 SF		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-143.98	-12.0	-8.7	14.9					
100.0	100.0	100.0	100.0	0.1	0.1	-143.98	-12.0	-8.7	14.9	14.6	0.27	54.586		
200.0	200.0	200.0	200.0	0.3	0.3	-143.98	-12.0	-8.7	14.9	14.2	0.62	23.920		
233.3	233.3	233.3	233.3	0.4	0.4	-90.17	-12.0	-8.7	14.9	14.1	0.74	20.124 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-96.13	-12.0	-8.7	14.9	14.0	0.97	15.344 ES		
400.0	399.8	399.9	399.9	0.7	0.7	-108.54	-11.4	-10.4	16.2	14.8	1.34	12.032		
500.0	499.5	499.9	499.7	0.9	0.9	-117.76	-9.7	-15.3	18.9	17.2	1.75	10.837		
600.0	598.7	600.0	599.4	1.2	1.1	-123.42	-6.7	-23.5	22.9	20.7	2.19	10.434		
700.0	697.5	700.2	698.9	1.5	1.3	-126.38	-2.6	-35.0	27.9	25.1	2.70	10.301		
800.0	795.8	800.4	797.9	1.8	1.6	-126.38	2.7	-49.8	33.1	29.8	3.29	10.062		
900.0	894.1	900.3	896.2	2.2	2.0	-123.63	8.7	-66.4	37.7	33.8	3.94	9.586		
1,000.0	992.4	1,000.2	994.5	2.5	2.3	-121.46	14.7	-83.0	42.4	37.8	4.61	9.214		
1,100.0	1,090.7	1,100.1	1,092.8	2.9	2.6	-119.72	20.7	-99.7	47.2	41.9	5.29	8.922		
1,200.0	1,189.0	1,199.9	1,191.1	3.3	3.0	-118.31	26.7	-116.3	52.0	46.0	5.98	8.690		
1,300.0	1,287.4	1,299.8	1,289.4	3.6	3.3	-117.13	32.7	-132.9	56.8	50.1	6.68	8.503		
1,400.0	1,385.7	1,399.7	1,387.7	4.0	3.7	-116.14	38.7	-149.6	61.6	54.2	7.38	8.349		
1,500.0	1,484.0	1,499.6	1,486.0	4.3	4.0	-115.29	44.7	-166.2	66.5	58.4	8.09	8.220		
1,600.0	1,582.3	1,599.5	1,584.3	4.7	4.4	-114.55	50.7	-182.9	71.3	62.5	8.79	8.112		
1,700.0	1,680.6	1,699.3	1,682.6	5.1	4.8	-113.91	56.6	-199.5	76.2	66.7	9.50	8.020		
1,800.0	1,778.9	1,799.2	1,780.9	5.4	5.1	-113.35	62.6	-216.1	81.1	70.9	10.21	7.940		
1,900.0	1,877.2	1,899.1	1,879.2	5.8	5.5	-112.85	68.6	-232.8	86.0	75.0	10.92	7.871		
2,000.0	1,975.5	1,999.0	1,977.5	6.2	5.8	-112.41	74.6	-249.4	90.8	79.2	11.63	7.810		
2,100.0	2,073.9	2,098.9	2,075.8	6.5	6.2	-112.01	80.6	-266.1	95.7	83.4	12.35	7.756		
2,200.0	2,172.2	2,198.7	2,174.1	6.9	6.5	-111.65	86.6	-282.7	100.6	87.6	13.06	7.708		
2,300.0	2,270.5	2,298.6	2,272.4	7.3	6.9	-111.32	92.6	-299.3	105.5	91.8	13.77	7.665		
2,400.0	2,368.8	2,398.5	2,370.7	7.6	7.2	-111.02	98.6	-316.0	110.5	96.0	14.48	7.626		
2,500.0	2,467.1	2,498.4	2,469.0	8.0	7.6	-110.75	104.6	-332.6	115.4	100.2	15.20	7.591		
2,600.0	2,565.4	2,598.2	2,567.3	8.4	8.0	-110.50	110.6	-349.3	120.3	104.4	15.91	7.559		
2,700.0	2,663.7	2,698.1	2,665.6	8.7	8.3	-110.27	116.5	-365.9	125.2	108.6	16.63	7.530		
2,800.0	2,762.0	2,798.0	2,763.9	9.1	8.7	-110.06	122.5	-382.5	130.1	112.8	17.34	7.503		
2,900.0	2,860.3	2,897.9	2,862.2	9.5	9.0	-109.86	128.5	-399.2	135.0	117.0	18.05	7.478		
3,000.0	2,958.7	2,997.8	2,960.5	9.8	9.4	-109.67	134.5	-415.8	139.9	121.2	18.77	7.456		
3,100.0	3,057.0	3,097.6	3,058.8	10.2	9.7	-109.50	140.5	-432.5	144.9	125.4	19.48	7.435		
3,200.0	3,155.3	3,197.5	3,157.1	10.6	10.1	-109.34	146.5	-449.1	149.8	129.6	20.20	7.415		
3,300.0	3,253.6	3,297.4	3,255.4	10.9	10.4	-109.19	152.5	-465.7	154.7	133.8	20.91	7.397		
3,400.0	3,351.9	3,397.3	3,353.7	11.3	10.8	-109.05	158.5	-482.4	159.6	138.0	21.63	7.380		
3,500.0	3,450.2	3,497.1	3,452.0	11.7	11.2	-108.92	164.5	-499.0	164.6	142.2	22.34	7.365		
3,600.0	3,548.5	3,597.0	3,550.3	12.0	11.5	-108.79	170.4	-515.7	169.5	146.4	23.06	7.350		
3,700.0	3,646.8	3,696.9	3,648.6	12.4	11.9	-108.68	176.4	-532.3	174.4	150.6	23.77	7.336		
3,800.0	3,745.1	3,796.8	3,746.9	12.8	12.2	-108.57	182.4	-548.9	179.3	154.8	24.49	7.323		
3,900.0	3,843.5	3,896.7	3,845.2	13.1	12.6	-108.46	188.4	-565.6	184.3	159.1	25.20	7.311		
4,000.0	3,941.8	3,996.5	3,943.5	13.5	13.0	-108.36	194.4	-582.2	189.2	163.3	25.92	7.299		
4,100.0	4,040.1	4,096.4	4,041.8	13.9	13.3	-108.27	200.4	-598.9	194.1	167.5	26.63	7.288		
4,200.0	4,138.4	4,196.3	4,140.1	14.2	13.7	-108.18	206.4	-615.5	199.0	171.7	27.35	7.278		
4,300.0	4,236.7	4,296.2	4,238.4	14.6	14.0	-108.09	212.4	-632.1	204.0	175.9	28.06	7.268		
4,400.0	4,335.0	4,396.0	4,336.7	15.0	14.4	-108.01	218.4	-648.8	208.9	180.1	28.78	7.259		
4,500.0	4,433.3	4,495.9	4,435.0	15.3	14.7	-107.93	224.4	-665.4	213.8	184.3	29.50	7.250		
4,600.0	4,531.6	4,595.8	4,533.3	15.7	15.1	-107.86	230.3	-682.1	218.8	188.5	30.21	7.241		
4,700.0	4,630.0	4,695.7	4,631.6	16.1	15.5	-107.79	236.3	-698.7	223.7	192.8	30.93	7.233		
4,800.0	4,728.3	4,795.6	4,729.9	16.4	15.8	-107.72	242.3	-715.3	228.6	197.0	31.64	7.225		
4,900.0	4,826.6	4,895.4	4,828.2	16.8	16.2	-107.65	248.3	-732.0	233.6	201.2	32.36	7.218		
5,000.0	4,924.9	4,995.3	4,926.5	17.2	16.5	-107.59	254.3	-748.6	238.5	205.4	33.07	7.211		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,023.2	5,095.2	5,024.8	17.5	16.9	-107.53	260.3	-765.2	243.4	209.6	33.79	7.204		
5,200.0	5,121.5	5,195.1	5,123.1	17.9	17.2	-107.47	266.3	-781.9	248.3	213.8	34.50	7.198		
5,300.0	5,219.8	5,294.9	5,221.4	18.3	17.6	-107.42	272.3	-798.5	253.3	218.1	35.22	7.192		
5,400.0	5,318.1	5,394.8	5,319.7	18.6	18.0	-107.36	278.3	-815.2	258.2	222.3	35.93	7.186		
5,500.0	5,416.4	5,494.7	5,418.0	19.0	18.3	-107.31	284.2	-831.8	263.1	226.5	36.65	7.180		
5,600.0	5,514.8	5,594.6	5,516.3	19.4	18.7	-107.26	290.2	-848.4	268.1	230.7	37.36	7.175		
5,700.0	5,613.1	5,694.5	5,614.6	19.7	19.0	-107.22	296.2	-865.1	273.0	234.9	38.08	7.169		
5,800.0	5,711.4	5,794.3	5,712.9	20.1	19.4	-107.17	302.2	-881.7	277.9	239.2	38.80	7.164		
5,900.0	5,809.7	5,894.2	5,811.2	20.5	19.8	-107.13	308.2	-898.4	282.9	243.4	39.51	7.159		
6,000.0	5,908.0	5,994.1	5,909.5	20.8	20.1	-107.08	314.2	-915.0	287.8	247.6	40.23	7.155		
6,100.0	6,006.3	6,094.0	6,007.8	21.2	20.5	-107.04	320.2	-931.6	292.7	251.8	40.94	7.150		
6,200.0	6,104.6	6,193.8	6,106.1	21.6	20.8	-107.00	326.2	-948.3	297.7	256.0	41.66	7.146		
6,300.0	6,202.9	6,293.7	6,204.4	21.9	21.2	-106.96	332.2	-964.9	302.6	260.2	42.37	7.142		
6,400.0	6,301.2	6,393.6	6,302.7	22.3	21.5	-106.93	338.2	-981.6	307.6	264.5	43.09	7.138		
6,500.0	6,399.6	6,493.5	6,401.0	22.7	21.9	-106.89	344.1	-998.2	312.5	268.7	43.80	7.134		
6,600.0	6,497.9	6,593.4	6,499.3	23.0	22.3	-106.86	350.1	-1,014.8	317.4	272.9	44.52	7.130		
6,700.0	6,596.2	6,693.2	6,597.6	23.4	22.6	-106.82	356.1	-1,031.5	322.4	277.1	45.24	7.126		
6,800.0	6,694.5	6,793.1	6,695.9	23.8	23.0	-106.79	362.1	-1,048.1	327.3	281.3	45.95	7.123		
6,900.0	6,792.8	6,893.0	6,794.2	24.1	23.3	-106.77	368.1	-1,064.7	332.2	285.5	46.67	7.119		
7,000.0	6,891.5	6,992.6	6,892.6	24.4	23.6	-106.80	373.4	-1,079.5	336.6	289.3	47.27	7.120		
7,100.0	6,990.7	7,092.3	6,991.5	24.7	23.9	-106.84	377.6	-1,091.0	340.0	292.2	47.77	7.118		
7,200.0	7,090.3	7,192.0	7,090.8	24.9	24.1	-106.88	380.5	-1,099.3	342.5	294.3	48.16	7.111		
7,300.0	7,190.1	7,291.7	7,190.4	25.0	24.2	-106.93	382.3	-1,104.3	344.0	295.6	48.45	7.101		
7,400.0	7,290.1	7,391.4	7,290.1	25.1	24.3	-106.98	383.0	-1,106.1	344.6	296.0	48.63	7.086		
7,500.0	7,390.1	7,490.4	7,389.0	25.2	24.4	-41.63	382.9	-1,106.3	344.7	295.8	48.83	7.059		
7,600.0	7,490.1	7,589.3	7,487.9	25.3	24.5	-41.62	382.6	-1,106.8	344.7	295.6	49.03	7.030		
7,700.0	7,590.0	7,688.2	7,586.8	25.4	24.6	-41.62	382.1	-1,107.7	344.7	295.5	49.24	7.001		
7,800.0	7,690.0	7,787.5	7,686.1	25.5	24.7	-41.62	381.4	-1,109.0	344.7	295.2	49.46	6.970		
7,900.0	7,790.0	7,887.5	7,786.1	25.6	24.8	-41.61	380.6	-1,110.3	344.7	295.0	49.68	6.938		
8,000.0	7,890.0	7,987.5	7,886.1	25.7	24.9	-41.61	379.8	-1,111.7	344.6	294.7	49.90	6.907		
8,100.0	7,990.0	8,087.5	7,986.1	25.8	25.1	-41.61	379.1	-1,113.0	344.6	294.5	50.13	6.875		
8,200.0	8,090.0	8,187.5	8,086.1	25.9	25.2	-41.61	378.3	-1,114.4	344.6	294.3	50.35	6.844		
8,300.0	8,190.0	8,287.5	8,186.0	26.0	25.3	-41.61	377.6	-1,115.7	344.6	294.0	50.58	6.812		
8,400.0	8,290.0	8,387.5	8,286.0	26.2	25.4	-41.61	376.8	-1,117.1	344.6	293.8	50.81	6.781		
8,500.0	8,390.0	8,487.5	8,386.0	26.3	25.5	-41.61	376.1	-1,118.4	344.5	293.5	51.04	6.750		
8,600.0	8,489.9	8,587.5	8,486.0	26.4	25.6	-41.61	375.3	-1,119.8	344.5	293.3	51.27	6.719		
8,700.0	8,589.9	8,687.5	8,586.0	26.5	25.7	-41.61	374.6	-1,121.1	344.5	293.0	51.51	6.688		
8,800.0	8,689.9	8,787.5	8,686.0	26.6	25.9	-41.61	373.8	-1,122.5	344.5	292.7	51.74	6.658		
8,900.0	8,789.9	8,887.5	8,786.0	26.7	26.0	-41.61	373.1	-1,123.8	344.5	292.5	51.98	6.627		
9,000.0	8,889.9	8,987.5	8,886.0	26.8	26.1	-41.60	372.3	-1,125.2	344.4	292.2	52.22	6.597		
9,100.0	8,989.9	9,087.5	8,985.9	26.9	26.2	-41.60	371.5	-1,126.5	344.4	292.0	52.46	6.566		
9,200.0	9,089.9	9,187.5	9,085.9	27.0	26.3	-41.60	370.8	-1,127.9	344.4	291.7	52.70	6.536		
9,300.0	9,189.9	9,287.5	9,185.9	27.1	26.5	-41.60	370.0	-1,129.2	344.4	291.5	52.94	6.506		
9,400.0	9,289.8	9,387.5	9,285.9	27.3	26.6	-41.60	369.3	-1,130.6	344.4	291.2	53.18	6.476		
9,500.0	9,389.8	9,487.5	9,385.9	27.4	26.7	-41.60	368.5	-1,131.9	344.3	290.9	53.42	6.446		
9,600.0	9,489.8	9,587.5	9,485.9	27.5	26.8	-41.60	367.8	-1,133.3	344.3	290.7	53.67	6.416		
9,700.0	9,589.8	9,687.5	9,585.9	27.6	26.9	-41.60	367.0	-1,134.6	344.3	290.4	53.91	6.386		
9,800.0	9,689.8	9,787.5	9,685.9	27.7	27.1	-41.60	366.3	-1,136.0	344.3	290.1	54.16	6.357		
9,900.0	9,789.8	9,887.5	9,785.8	27.8	27.2	-41.60	365.5	-1,137.3	344.3	289.9	54.41	6.327		
10,000.0	9,889.8	9,987.5	9,885.8	28.0	27.3	-41.59	364.7	-1,138.7	344.2	289.6	54.66	6.298		
10,100.0	9,989.8	10,087.5	9,985.8	28.1	27.4	-41.59	364.0	-1,140.0	344.2	289.3	54.91	6.269		
10,146.0	10,035.8	10,133.5	10,031.8	28.1	27.5	-41.59	363.6	-1,140.6	344.2	289.2	55.02	6.256		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-37D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,164.2	10,054.0	10,145.7	10,044.0	28.2	27.5	-41.59	363.6	-1,140.8	344.3	289.2	55.06	6.252 SF		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Section 6 T6S R96W - Chevron 6-25D - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
3,700.0	3,646.8	3,769.9	3,718.1	12.4	12.4	85.13	1,392.1	98.3	1,210.8	1,189.2	21.60	56.046		
3,800.0	3,745.1	3,864.5	3,811.2	12.8	12.7	86.45	1,375.6	100.6	1,195.2	1,172.9	22.37	53.435		
3,900.0	3,843.5	3,959.1	3,904.3	13.1	13.1	87.80	1,359.2	102.8	1,180.3	1,157.2	23.14	51.012		
4,000.0	3,941.8	4,053.7	3,997.4	13.5	13.4	89.17	1,342.7	105.1	1,166.1	1,142.2	23.91	48.766		
4,100.0	4,040.1	4,148.2	4,090.5	13.9	13.7	90.58	1,326.2	107.4	1,152.6	1,127.9	24.69	46.682		
4,200.0	4,138.4	4,242.8	4,183.7	14.2	14.1	92.02	1,309.8	109.6	1,139.9	1,114.4	25.47	44.752		
4,300.0	4,236.7	4,337.4	4,276.8	14.6	14.4	93.48	1,293.3	111.9	1,128.0	1,101.7	26.25	42.965		
4,400.0	4,335.0	4,432.0	4,369.9	15.0	14.7	94.97	1,276.9	114.2	1,116.9	1,089.9	27.04	41.312		
4,500.0	4,433.3	4,526.6	4,463.0	15.3	15.1	96.49	1,260.4	116.4	1,106.7	1,078.8	27.82	39.785		
4,600.0	4,531.6	4,621.1	4,556.1	15.7	15.4	98.04	1,243.9	118.7	1,097.3	1,068.7	28.59	38.377		
4,700.0	4,630.0	4,715.7	4,649.2	16.1	15.7	99.60	1,227.5	121.0	1,088.8	1,059.4	29.36	37.081		
4,800.0	4,728.3	4,810.3	4,742.3	16.4	16.1	101.19	1,211.0	123.2	1,081.2	1,051.1	30.13	35.889		
4,900.0	4,826.6	4,904.9	4,835.4	16.8	16.4	102.79	1,194.5	125.5	1,074.5	1,043.6	30.88	34.798		
5,000.0	4,924.9	4,999.4	4,928.5	17.2	16.7	104.42	1,178.1	127.7	1,068.8	1,037.2	31.62	33.799		
5,100.0	5,023.2	5,094.0	5,021.6	17.5	17.1	106.05	1,161.6	130.0	1,064.1	1,031.7	32.35	32.890		
5,200.0	5,121.5	5,188.6	5,114.7	17.9	17.4	107.70	1,145.1	132.3	1,060.3	1,027.2	33.07	32.064		
5,300.0	5,219.8	5,283.2	5,207.8	18.3	17.7	109.36	1,128.7	134.5	1,057.5	1,023.7	33.77	31.318		
5,400.0	5,318.1	5,377.7	5,300.9	18.6	18.1	111.02	1,112.2	136.8	1,055.7	1,021.3	34.45	30.646		
5,500.0	5,416.4	5,472.3	5,394.0	19.0	18.4	112.69	1,095.7	139.1	1,054.9	1,019.8	35.11	30.046		
5,530.2	5,446.1	5,500.9	5,422.2	19.1	18.5	113.19	1,090.8	139.7	1,054.9	1,019.5	35.31	29.878 CC		
5,600.0	5,514.8	5,566.9	5,487.1	19.4	18.7	114.36	1,079.3	141.3	1,055.1	1,019.3	35.75	29.513 ES		
5,700.0	5,613.1	5,661.5	5,580.2	19.7	19.1	116.02	1,062.8	143.6	1,056.3	1,019.9	36.37	29.043		
5,800.0	5,711.4	5,756.1	5,673.4	20.1	19.4	117.69	1,046.4	145.9	1,058.5	1,021.5	36.97	28.634		
5,900.0	5,809.7	5,850.6	5,766.5	20.5	19.7	119.34	1,029.9	148.1	1,061.7	1,024.1	37.54	28.281		
6,000.0	5,908.0	5,937.5	5,852.1	20.8	20.0	120.81	1,015.6	150.1	1,066.1	1,028.0	38.04	28.023		
6,100.0	6,006.3	6,022.9	5,936.8	21.2	20.2	122.10	1,004.4	151.6	1,072.3	1,033.8	38.49	27.859		
6,200.0	6,104.6	6,109.9	6,023.4	21.6	20.4	123.23	996.3	152.7	1,080.0	1,041.1	38.89	27.770		
6,300.0	6,202.9	6,200.0	6,113.3	21.9	20.5	124.22	991.2	153.4	1,089.0	1,049.7	39.25	27.747		
6,400.0	6,301.2	6,288.0	6,201.3	22.3	20.6	125.00	989.6	153.6	1,099.1	1,059.5	39.57	27.779		
6,500.0	6,399.6	6,391.2	6,304.5	22.7	20.7	125.80	989.5	153.4	1,109.6	1,069.7	39.89	27.818		
6,600.0	6,497.9	6,494.5	6,407.8	23.0	20.8	126.60	989.2	152.8	1,119.8	1,079.6	40.20	27.854		
6,700.0	6,596.2	6,594.6	6,507.8	23.4	20.9	127.36	988.6	151.9	1,130.0	1,089.4	40.51	27.890		
6,800.0	6,694.5	6,692.9	6,606.2	23.8	21.0	128.09	988.1	151.0	1,140.2	1,099.4	40.82	27.934		
6,900.0	6,792.8	6,791.3	6,704.6	24.1	21.1	128.84	987.6	150.1	1,150.7	1,109.6	41.12	27.982		
7,000.0	6,891.5	6,890.1	6,803.4	24.4	21.2	129.61	987.1	149.2	1,159.9	1,118.5	41.41	28.012		
7,100.0	6,990.7	6,989.3	6,902.6	24.7	21.3	130.21	986.6	148.3	1,167.1	1,125.4	41.67	28.008		
7,200.0	7,090.3	7,088.9	7,002.2	24.9	21.4	130.64	986.0	147.4	1,172.0	1,130.1	41.91	27.967		
7,300.0	7,190.1	7,188.8	7,102.0	25.0	21.6	130.91	985.5	146.5	1,174.8	1,132.6	42.12	27.888		
7,400.0	7,290.1	7,288.8	7,202.0	25.1	21.7	131.01	985.0	145.6	1,175.2	1,132.9	42.32	27.770		
7,500.0	7,390.1	7,388.7	7,302.0	25.2	21.8	-163.62	984.4	144.6	1,174.4	1,131.8	42.53	27.611		
7,600.0	7,490.1	7,488.7	7,402.0	25.3	21.9	-163.62	983.9	143.7	1,173.9	1,131.2	42.75	27.462		
7,656.6	7,546.7	7,545.4	7,458.6	25.4	21.9	-163.62	983.6	143.2	1,173.9	1,131.0	42.87	27.382		
7,700.0	7,590.0	7,588.7	7,502.0	25.4	22.0	-163.62	983.4	142.8	1,173.9	1,130.9	42.96	27.323		
7,800.0	7,690.0	7,688.7	7,602.0	25.5	22.1	-163.62	982.9	141.9	1,174.3	1,131.1	43.18	27.194		
7,900.0	7,790.0	7,788.7	7,702.0	25.6	22.2	-163.63	982.3	141.0	1,174.8	1,131.4	43.40	27.069		
8,000.0	7,890.0	7,888.7	7,802.0	25.7	22.3	-163.63	981.8	140.1	1,175.2	1,131.6	43.62	26.943		
8,100.0	7,990.0	7,988.7	7,901.9	25.8	22.4	-163.64	981.3	139.1	1,175.7	1,131.9	43.84	26.818		
8,200.0	8,090.0	8,088.7	8,001.9	25.9	22.5	-163.65	980.7	138.2	1,176.2	1,132.1	44.06	26.692		
8,300.0	8,190.0	8,188.7	8,101.9	26.0	22.7	-163.65	980.2	137.3	1,176.7	1,132.4	44.29	26.568		
8,400.0	8,290.0	8,288.7	8,201.9	26.2	22.8	-163.66	979.7	136.4	1,177.1	1,132.6	44.52	26.443		
8,500.0	8,390.0	8,388.7	8,301.9	26.3	22.9	-163.67	979.1	135.5	1,177.6	1,132.9	44.74	26.319		
8,600.0	8,489.9	8,488.7	8,401.9	26.4	23.0	-163.67	978.6	134.6	1,178.1	1,133.1	44.97	26.195		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Section 6 T6S R96W - Chevron 6-25D - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,700.0	8,589.9	8,588.7	8,501.9	26.5	23.1	-163.68	978.1	133.6	1,178.6	1,133.4	45.21	26.072		
8,800.0	8,689.9	8,688.7	8,601.9	26.6	23.3	-163.69	977.6	132.7	1,179.0	1,133.6	45.44	25.948		
8,900.0	8,789.9	8,788.7	8,701.9	26.7	23.4	-163.70	977.0	131.8	1,179.5	1,133.9	45.67	25.826		
9,000.0	8,889.9	8,888.7	8,801.9	26.8	23.5	-163.70	976.5	130.9	1,180.0	1,134.1	45.91	25.704		
9,100.0	8,989.9	8,988.7	8,901.9	26.9	23.6	-163.71	976.0	130.0	1,180.5	1,134.3	46.15	25.582		
9,200.0	9,089.9	9,088.7	9,001.9	27.0	23.7	-163.72	975.4	129.0	1,181.0	1,134.6	46.38	25.461		
9,300.0	9,189.9	9,188.7	9,101.9	27.1	23.9	-163.72	974.9	128.1	1,181.4	1,134.8	46.62	25.340		
9,400.0	9,289.8	9,288.7	9,201.9	27.3	24.0	-163.73	974.4	127.2	1,181.9	1,135.0	46.87	25.219		
9,500.0	9,389.8	9,388.7	9,301.9	27.4	24.1	-163.74	973.9	126.3	1,182.4	1,135.3	47.11	25.100		
9,600.0	9,489.8	9,488.7	9,401.8	27.5	24.2	-163.74	973.3	125.4	1,182.9	1,135.5	47.35	24.980		
9,700.0	9,589.8	9,588.7	9,501.8	27.6	24.4	-163.75	972.8	124.5	1,183.3	1,135.7	47.60	24.862		
9,800.0	9,689.8	9,688.7	9,601.8	27.7	24.5	-163.76	972.3	123.5	1,183.8	1,136.0	47.84	24.743		
9,900.0	9,789.8	9,788.7	9,701.8	27.8	24.6	-163.76	971.7	122.6	1,184.3	1,136.2	48.09	24.626		
10,000.0	9,889.8	9,888.7	9,801.8	28.0	24.7	-163.77	971.2	121.7	1,184.8	1,136.4	48.34	24.509		
10,100.0	9,989.8	9,988.7	9,901.8	28.1	24.9	-163.78	970.7	120.8	1,185.3	1,136.7	48.59	24.392		
10,164.2	10,054.0	10,053.0	9,966.1	28.2	24.9	-163.78	970.3	120.2	1,185.6	1,136.8	48.75	24.318 SF		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Section 6 T6S R96W - Chevron 6-39D - DD - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
3,700.0	3,646.8	3,761.3	3,694.0	12.4	13.7	53.83	1,546.9	-529.4	1,213.2	1,191.1	22.13	54.821		
3,800.0	3,745.1	3,858.6	3,789.3	12.8	14.1	53.75	1,534.6	-545.1	1,190.2	1,167.4	22.77	52.274		
3,900.0	3,843.5	3,955.9	3,884.5	13.1	14.4	53.66	1,522.4	-560.8	1,167.1	1,143.7	23.41	49.865		
4,000.0	3,941.8	4,053.1	3,979.7	13.5	14.8	53.56	1,510.1	-576.5	1,144.1	1,120.1	24.04	47.583		
4,100.0	4,040.1	4,150.4	4,075.0	13.9	15.2	53.47	1,497.9	-592.2	1,121.1	1,096.4	24.68	45.420		
4,200.0	4,138.4	4,247.7	4,170.2	14.2	15.6	53.37	1,485.6	-608.0	1,098.1	1,072.8	25.32	43.366		
4,300.0	4,236.7	4,345.0	4,265.4	14.6	16.0	53.26	1,473.3	-623.7	1,075.1	1,049.1	25.96	41.412		
4,400.0	4,335.0	4,442.3	4,360.7	15.0	16.4	53.15	1,461.1	-639.4	1,052.1	1,025.5	26.60	39.553		
4,500.0	4,433.3	4,539.6	4,455.9	15.3	16.8	53.04	1,448.8	-655.1	1,029.0	1,001.8	27.24	37.780		
4,600.0	4,531.6	4,636.9	4,551.1	15.7	17.2	52.92	1,436.6	-670.9	1,006.0	978.2	27.88	36.089		
4,700.0	4,630.0	4,734.2	4,646.3	16.1	17.6	52.80	1,424.3	-686.6	983.0	954.5	28.52	34.474		
4,800.0	4,728.3	4,831.5	4,741.6	16.4	18.0	52.66	1,412.0	-702.3	960.1	930.9	29.15	32.929		
4,900.0	4,826.6	4,928.8	4,836.8	16.8	18.4	52.53	1,399.8	-718.0	937.1	907.3	29.79	31.451		
5,000.0	4,924.9	5,026.1	4,932.0	17.2	18.7	52.38	1,387.5	-733.8	914.1	883.6	30.43	30.035		
5,100.0	5,023.2	5,123.4	5,027.3	17.5	19.1	52.23	1,375.3	-749.5	891.1	860.0	31.07	28.678		
5,200.0	5,121.5	5,220.7	5,122.5	17.9	19.5	52.07	1,363.0	-765.2	868.1	836.4	31.71	27.375		
5,300.0	5,219.8	5,318.0	5,217.7	18.3	19.9	51.90	1,350.7	-780.9	845.2	812.8	32.35	26.124		
5,400.0	5,318.1	5,415.3	5,313.0	18.6	20.3	51.72	1,338.5	-796.7	822.2	789.2	32.99	24.922		
5,500.0	5,416.4	5,512.6	5,408.2	19.0	20.7	51.54	1,326.2	-812.4	799.3	765.6	33.63	23.766		
5,600.0	5,514.8	5,609.9	5,503.4	19.4	21.1	51.34	1,313.9	-828.1	776.3	742.0	34.27	22.653		
5,700.0	5,613.1	5,707.2	5,598.7	19.7	21.5	51.13	1,301.7	-843.8	753.4	718.5	34.91	21.581		
5,800.0	5,711.4	5,804.5	5,693.9	20.1	21.9	50.90	1,289.4	-859.6	730.5	694.9	35.55	20.549		
5,900.0	5,809.7	5,901.8	5,789.1	20.5	22.3	50.66	1,277.2	-875.3	707.6	671.4	36.19	19.553		
6,000.0	5,908.0	5,999.1	5,884.4	20.8	22.7	50.41	1,264.9	-891.0	684.7	647.8	36.83	18.592		
6,100.0	6,006.3	6,096.4	5,979.6	21.2	23.0	50.13	1,252.6	-906.7	661.8	624.3	37.46	17.664		
6,200.0	6,104.6	6,193.7	6,074.8	21.6	23.4	49.84	1,240.4	-922.5	638.9	600.8	38.10	16.769		
6,300.0	6,202.9	6,291.0	6,170.0	21.9	23.8	49.53	1,228.1	-938.2	616.1	577.3	38.74	15.903		
6,400.0	6,301.2	6,388.3	6,265.3	22.3	24.2	49.19	1,215.9	-953.9	593.2	553.8	39.37	15.066		
6,500.0	6,399.6	6,485.6	6,360.5	22.7	24.6	48.83	1,203.6	-969.6	570.4	530.4	40.01	14.257		
6,600.0	6,497.9	6,582.9	6,455.7	23.0	25.0	48.43	1,191.3	-985.4	547.6	507.0	40.64	13.474		
6,700.0	6,596.2	6,680.2	6,551.0	23.4	25.4	48.00	1,179.1	-1,001.1	524.9	483.6	41.27	12.716		
6,800.0	6,694.5	6,777.4	6,646.2	23.8	25.8	47.53	1,166.8	-1,016.8	502.1	460.2	41.90	11.983		
6,900.0	6,792.8	6,871.7	6,738.5	24.1	26.2	47.02	1,155.1	-1,031.8	479.6	437.1	42.52	11.278		
7,000.0	6,891.5	6,962.3	6,827.7	24.4	26.4	46.30	1,145.2	-1,044.5	459.8	416.7	43.12	10.664		
7,100.0	6,990.7	7,053.9	6,918.3	24.7	26.7	45.65	1,137.1	-1,055.0	443.9	400.3	43.62	10.176		
7,200.0	7,090.3	7,146.4	7,010.2	24.9	26.9	45.06	1,130.6	-1,063.2	432.0	388.0	44.04	9.810		
7,300.0	7,190.1	7,239.5	7,103.0	25.0	27.1	44.56	1,126.0	-1,069.2	424.1	379.8	44.36	9.561		
7,400.0	7,290.1	7,333.0	7,196.3	25.1	27.2	44.15	1,123.2	-1,072.8	420.3	375.7	44.59	9.425		
7,492.9	7,383.0	7,420.0	7,283.3	25.2	27.3	104.44	1,122.3	-1,074.0	419.4	374.6	44.78	9.366 CC		
7,500.0	7,390.1	7,426.7	7,290.1	25.2	27.3	109.35	1,122.3	-1,074.0	419.6	374.8	44.80	9.366		
7,600.0	7,490.1	7,527.3	7,390.7	25.3	27.4	109.40	1,122.1	-1,074.2	419.7	374.7	45.02	9.322		
7,700.0	7,590.0	7,627.9	7,491.3	25.4	27.5	109.44	1,121.8	-1,074.7	419.8	374.6	45.26	9.276		
7,800.0	7,690.0	7,728.6	7,591.9	25.5	27.6	109.49	1,121.3	-1,075.7	419.9	374.4	45.50	9.228		
7,900.0	7,790.0	7,828.9	7,692.2	25.6	27.7	109.50	1,120.5	-1,077.0	419.9	373.2	45.76	9.178		
8,000.0	7,890.0	7,928.9	7,792.2	25.7	27.8	109.50	1,119.7	-1,078.3	419.9	372.9	46.01	9.128		
8,100.0	7,990.0	8,028.9	7,892.2	25.8	27.9	109.50	1,119.0	-1,079.7	419.9	373.7	46.26	9.077		
8,200.0	8,090.0	8,128.9	7,992.2	25.9	28.0	109.50	1,118.2	-1,081.0	419.9	373.4	46.52	9.028		
8,300.0	8,190.0	8,228.9	8,092.2	26.0	28.1	109.50	1,117.4	-1,082.4	419.9	373.2	46.77	8.978		
8,400.0	8,290.0	8,328.9	8,192.2	26.2	28.2	109.50	1,116.6	-1,083.7	419.9	372.9	47.03	8.929		
8,500.0	8,390.0	8,428.9	8,292.1	26.3	28.4	109.50	1,115.8	-1,085.1	419.9	372.6	47.29	8.880		
8,600.0	8,489.9	8,528.9	8,392.1	26.4	28.5	109.50	1,115.1	-1,086.4	419.9	372.4	47.55	8.832		
8,700.0	8,589.9	8,628.9	8,492.1	26.5	28.6	109.50	1,114.3	-1,087.8	419.9	372.1	47.81	8.783		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Section 6 T6S R96W - Chevron 6-39D - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
8,800.0	8,689.9	8,728.9	8,592.1	26.6	28.7	109.50	1,113.5	-1,089.1	419.9	371.9	48.07	8.735		
8,900.0	8,789.9	8,828.9	8,692.1	26.7	28.8	109.50	1,112.7	-1,090.5	419.9	371.6	48.33	8.688		
9,000.0	8,889.9	8,928.9	8,792.1	26.8	28.9	109.50	1,111.9	-1,091.8	419.9	371.3	48.60	8.641		
9,100.0	8,989.9	9,028.9	8,892.1	26.9	29.0	109.50	1,111.2	-1,093.2	419.9	371.1	48.86	8.594		
9,200.0	9,089.9	9,128.9	8,992.1	27.0	29.2	109.50	1,110.4	-1,094.5	419.9	370.8	49.13	8.547		
9,300.0	9,189.9	9,228.9	9,092.0	27.1	29.3	109.50	1,109.6	-1,095.9	419.9	370.5	49.40	8.501		
9,400.0	9,289.8	9,328.9	9,192.0	27.3	29.4	109.50	1,108.8	-1,097.2	419.9	370.2	49.67	8.455		
9,500.0	9,389.8	9,428.9	9,292.0	27.4	29.5	109.50	1,108.1	-1,098.5	419.9	370.0	49.94	8.409		
9,600.0	9,489.8	9,528.9	9,392.0	27.5	29.6	109.50	1,107.3	-1,099.9	419.9	369.7	50.21	8.364		
9,700.0	9,589.8	9,628.9	9,492.0	27.6	29.8	109.50	1,106.5	-1,101.2	419.9	369.4	50.48	8.318		
9,800.0	9,689.8	9,728.9	9,592.0	27.7	29.9	109.50	1,105.7	-1,102.6	419.9	369.1	50.75	8.274		
9,900.0	9,789.8	9,828.9	9,692.0	27.8	30.0	109.50	1,104.9	-1,103.9	419.9	368.9	51.02	8.229		
10,000.0	9,889.8	9,928.9	9,792.0	28.0	30.1	109.50	1,104.2	-1,105.3	419.9	368.6	51.30	8.185		
10,100.0	9,989.8	10,028.9	9,892.0	28.1	30.2	109.50	1,103.4	-1,106.6	419.9	368.3	51.57	8.142		
10,164.2	10,054.0	10,093.1	9,956.2	28.2	30.3	109.50	1,102.9	-1,107.5	419.9	368.1	51.75	8.114 ES, SF		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Section 6 T6S R96W - Chevron 6-40D - DD - Plan #1													Offset Site Error: 0.0 ft			
Survey Program: 0-															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
4,500.0	4,433.3	4,494.2	4,425.7	15.3	15.5	52.88	1,635.0	-660.5	1,211.5	1,184.1	27.38	44.242				
4,600.0	4,531.6	4,592.4	4,522.2	15.7	15.9	52.76	1,626.8	-676.8	1,192.7	1,164.7	28.03	42.557				
4,700.0	4,630.0	4,690.6	4,618.7	16.1	16.2	52.65	1,618.7	-693.1	1,173.9	1,145.2	28.67	40.949				
4,800.0	4,728.3	4,788.8	4,715.2	16.4	16.6	52.52	1,610.5	-709.4	1,155.1	1,125.8	29.31	39.411				
4,900.0	4,826.6	4,887.0	4,811.6	16.8	17.0	52.40	1,602.3	-725.7	1,136.4	1,106.4	29.95	37.941				
5,000.0	4,924.9	4,985.2	4,908.1	17.2	17.3	52.27	1,594.1	-742.0	1,117.6	1,087.0	30.59	36.532				
5,100.0	5,023.2	5,083.4	5,004.6	17.5	17.7	52.13	1,585.9	-758.3	1,098.8	1,067.6	31.23	35.183				
5,200.0	5,121.5	5,181.5	5,101.1	17.9	18.0	52.00	1,577.7	-774.6	1,080.1	1,048.2	31.87	33.888				
5,300.0	5,219.8	5,279.7	5,197.6	18.3	18.4	51.85	1,569.6	-790.9	1,061.3	1,028.8	32.51	32.645				
5,400.0	5,318.1	5,377.9	5,294.1	18.6	18.8	51.70	1,561.4	-807.2	1,042.6	1,009.4	33.15	31.450				
5,500.0	5,416.4	5,476.1	5,390.5	19.0	19.1	51.55	1,553.2	-823.5	1,023.8	990.1	33.79	30.302				
5,600.0	5,514.8	5,574.3	5,487.0	19.4	19.5	51.39	1,545.0	-839.8	1,005.1	970.7	34.43	29.197				
5,700.0	5,613.1	5,672.5	5,583.5	19.7	19.9	51.22	1,536.8	-856.0	986.4	951.3	35.06	28.133				
5,800.0	5,711.4	5,770.7	5,680.0	20.1	20.2	51.05	1,528.7	-872.3	967.7	932.0	35.70	27.108				
5,900.0	5,809.7	5,868.9	5,776.5	20.5	20.6	50.87	1,520.5	-888.6	949.0	912.6	36.33	26.119				
6,000.0	5,908.0	5,967.1	5,873.0	20.8	21.0	50.68	1,512.3	-904.9	930.3	893.3	36.97	25.166				
6,100.0	6,006.3	6,065.3	5,969.4	21.2	21.3	50.49	1,504.1	-921.2	911.6	874.0	37.60	24.246				
6,200.0	6,104.6	6,163.5	6,065.9	21.6	21.7	50.29	1,495.9	-937.5	892.9	854.7	38.23	23.357				
6,300.0	6,202.9	6,261.6	6,162.4	21.9	22.1	50.07	1,487.7	-953.8	874.3	835.4	38.86	22.498				
6,400.0	6,301.2	6,359.8	6,258.9	22.3	22.4	49.85	1,479.6	-970.1	855.6	816.1	39.49	21.667				
6,500.0	6,399.6	6,458.0	6,355.4	22.7	22.8	49.62	1,471.4	-986.4	837.0	796.9	40.12	20.864				
6,600.0	6,497.9	6,556.2	6,451.9	23.0	23.2	49.38	1,463.2	-1,002.7	818.4	777.6	40.74	20.086				
6,700.0	6,596.2	6,654.4	6,548.3	23.4	23.5	49.13	1,455.0	-1,019.0	799.7	758.4	41.37	19.333				
6,800.0	6,694.5	6,752.6	6,644.8	23.8	23.9	48.87	1,446.8	-1,035.3	781.2	739.2	41.99	18.604				
6,900.0	6,792.8	6,850.8	6,741.3	24.1	24.3	48.55	1,438.7	-1,051.6	762.6	720.0	42.61	17.895				
7,000.0	6,891.5	6,944.2	6,833.2	24.4	24.6	47.94	1,431.1	-1,066.6	745.7	702.5	43.20	17.263				
7,100.0	6,990.7	7,035.3	6,923.2	24.7	24.8	47.39	1,425.0	-1,078.8	732.1	688.4	43.68	16.762				
7,200.0	7,090.3	7,127.0	7,014.4	24.9	25.1	46.92	1,420.1	-1,088.6	722.0	677.9	44.07	16.381				
7,300.0	7,190.1	7,219.3	7,106.2	25.0	25.2	46.52	1,416.5	-1,095.7	715.2	670.9	44.38	16.116				
7,400.0	7,290.1	7,311.9	7,198.7	25.1	25.4	46.21	1,414.2	-1,100.3	712.0	667.4	44.60	15.963				
7,500.0	7,390.1	7,404.6	7,291.4	25.2	25.5	111.41	1,413.3	-1,102.1	711.3	666.5	44.80	15.879				
7,504.6	7,394.7	7,408.9	7,295.7	25.2	25.5	111.41	1,413.3	-1,102.1	711.3	666.5	44.80	15.876 CC				
7,600.0	7,490.1	7,504.2	7,391.0	25.3	25.6	111.44	1,413.2	-1,102.3	711.5	666.4	45.02	15.805				
7,700.0	7,590.0	7,605.4	7,492.1	25.4	25.7	111.48	1,412.9	-1,102.8	711.6	666.4	45.25	15.726				
7,800.0	7,690.0	7,706.5	7,593.3	25.5	25.8	111.51	1,412.4	-1,103.7	711.8	666.3	45.50	15.644				
7,900.0	7,790.0	7,807.3	7,694.1	25.6	25.9	111.52	1,411.7	-1,104.9	711.8	666.1	45.75	15.559				
8,000.0	7,890.0	7,907.3	7,794.1	25.7	26.0	111.52	1,410.9	-1,106.3	711.8	665.8	46.00	15.474				
8,100.0	7,990.0	8,007.3	7,894.1	25.8	26.1	111.52	1,410.1	-1,107.6	711.8	665.6	46.25	15.389				
8,200.0	8,090.0	8,107.3	7,994.1	25.9	26.2	111.52	1,409.3	-1,109.0	711.8	665.3	46.51	15.305				
8,300.0	8,190.0	8,207.3	8,094.1	26.0	26.3	111.52	1,408.6	-1,110.3	711.8	665.0	46.76	15.222				
8,400.0	8,290.0	8,307.3	8,194.0	26.2	26.5	111.52	1,407.8	-1,111.7	711.8	664.8	47.02	15.139				
8,500.0	8,390.0	8,407.3	8,294.0	26.3	26.6	111.52	1,407.0	-1,113.0	711.8	664.5	47.28	15.057				
8,600.0	8,489.9	8,507.3	8,394.0	26.4	26.7	111.52	1,406.2	-1,114.4	711.8	664.3	47.53	14.975				
8,700.0	8,589.9	8,607.3	8,494.0	26.5	26.8	111.52	1,405.4	-1,115.7	711.8	664.0	47.79	14.893				
8,800.0	8,689.9	8,707.3	8,594.0	26.6	26.9	111.52	1,404.7	-1,117.1	711.8	663.7	48.05	14.812				
8,900.0	8,789.9	8,807.3	8,694.0	26.7	27.1	111.52	1,403.9	-1,118.4	711.8	663.5	48.32	14.732				
9,000.0	8,889.9	8,907.3	8,794.0	26.8	27.2	111.52	1,403.1	-1,119.8	711.8	663.2	48.58	14.652				
9,100.0	8,989.9	9,007.3	8,894.0	26.9	27.3	111.52	1,402.3	-1,121.1	711.8	662.9	48.84	14.573				
9,200.0	9,089.9	9,107.3	8,993.9	27.0	27.4	111.52	1,401.6	-1,122.4	711.8	662.7	49.11	14.494				
9,300.0	9,189.9	9,207.3	9,093.9	27.1	27.5	111.52	1,400.8	-1,123.8	711.8	662.4	49.37	14.416				
9,400.0	9,289.8	9,307.3	9,193.9	27.3	27.7	111.52	1,400.0	-1,125.1	711.8	662.1	49.64	14.338				
9,500.0	9,389.8	9,407.3	9,293.9	27.4	27.8	111.52	1,399.2	-1,126.5	711.8	661.9	49.91	14.261				

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Section 6 T6S R96W - Chevron 6-40D - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Reference													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
9,600.0	9,489.8	9,507.3	9,393.9	27.5	27.9	111.52	1,398.5	-1,127.8	711.8	661.6	50.18	14.185		
9,700.0	9,589.8	9,607.3	9,493.9	27.6	28.0	111.52	1,397.7	-1,129.2	711.8	661.3	50.45	14.108		
9,800.0	9,689.8	9,707.3	9,593.9	27.7	28.2	111.52	1,396.9	-1,130.5	711.8	661.1	50.72	14.033		
9,900.0	9,789.8	9,807.3	9,693.9	27.8	28.3	111.52	1,396.1	-1,131.9	711.8	660.8	50.99	13.958		
10,000.0	9,889.8	9,907.3	9,793.9	28.0	28.4	111.52	1,395.3	-1,133.2	711.8	660.5	51.27	13.883		
10,100.0	9,989.8	10,007.3	9,893.8	28.1	28.6	111.52	1,394.6	-1,134.6	711.8	660.2	51.54	13.809		
10,164.2	10,054.0	10,071.6	9,958.1	28.2	28.6	111.52	1,394.1	-1,135.4	711.8	660.1	51.72	13.762 ES, SF		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Section 6 T6S R96W - Chevron 6-41D - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,900.0	5,809.7	5,823.7	5,741.9	20.5	19.6	51.35	1,791.7	-893.0	1,217.8	1,181.3	36.52	33.343		
6,000.0	5,908.0	5,922.6	5,839.3	20.8	20.0	51.21	1,787.9	-910.0	1,203.6	1,166.5	37.16	32.391		
6,100.0	6,006.3	6,021.6	5,936.7	21.2	20.3	51.06	1,784.2	-926.9	1,189.4	1,151.6	37.79	31.473		
6,200.0	6,104.6	6,120.5	6,034.1	21.6	20.7	50.91	1,780.5	-943.8	1,175.3	1,136.8	38.43	30.585		
6,300.0	6,202.9	6,219.4	6,131.5	21.9	21.0	50.75	1,776.7	-960.7	1,161.1	1,122.0	39.06	29.728		
6,400.0	6,301.2	6,318.4	6,228.9	22.3	21.4	50.59	1,773.0	-977.7	1,146.9	1,107.3	39.69	28.900		
6,500.0	6,399.6	6,417.3	6,326.3	22.7	21.7	50.42	1,769.3	-994.6	1,132.8	1,092.5	40.32	28.098		
6,600.0	6,497.9	6,516.3	6,423.7	23.0	22.1	50.25	1,765.5	-1,011.5	1,118.7	1,077.7	40.94	27.323		
6,700.0	6,596.2	6,614.1	6,520.1	23.4	22.4	50.09	1,761.9	-1,028.2	1,104.5	1,063.0	41.56	26.579		
6,800.0	6,694.5	6,708.5	6,613.4	23.8	22.7	50.04	1,758.8	-1,042.1	1,090.7	1,048.6	42.13	25.892		
6,900.0	6,792.8	6,802.9	6,707.2	24.1	22.9	50.13	1,756.4	-1,053.1	1,077.4	1,034.7	42.68	25.245		
7,000.0	6,891.5	6,897.5	6,801.4	24.4	23.1	50.15	1,754.6	-1,061.0	1,065.8	1,022.6	43.18	24.686		
7,100.0	6,990.7	6,992.3	6,896.0	24.7	23.3	50.24	1,753.6	-1,065.9	1,056.9	1,013.3	43.59	24.248		
7,200.0	7,090.3	7,087.0	6,990.7	24.9	23.3	50.41	1,753.2	-1,067.7	1,050.8	1,006.8	43.92	23.926		
7,300.0	7,190.1	7,188.2	7,091.9	25.0	23.4	50.59	1,753.1	-1,067.9	1,047.0	1,002.8	44.20	23.686		
7,400.0	7,290.1	7,290.2	7,194.0	25.1	23.6	50.63	1,752.7	-1,068.4	1,045.4	1,000.9	44.43	23.529		
7,500.0	7,390.1	7,392.3	7,296.0	25.2	23.7	115.94	1,752.2	-1,069.4	1,044.9	1,000.3	44.64	23.406		
7,600.0	7,490.1	7,492.6	7,396.3	25.3	23.8	115.90	1,751.5	-1,070.6	1,044.6	999.7	44.87	23.280		
7,700.0	7,590.0	7,592.6	7,496.3	25.4	23.9	115.88	1,750.8	-1,071.8	1,044.4	999.3	45.10	23.156		
7,730.0	7,620.1	7,622.7	7,526.4	25.5	23.9	115.88	1,750.6	-1,072.1	1,044.4	999.3	45.18	23.118 CC		
7,800.0	7,690.0	7,692.6	7,596.3	25.5	24.0	115.89	1,750.1	-1,072.9	1,044.5	999.1	45.35	23.032		
7,900.0	7,790.0	7,792.6	7,696.3	25.6	24.1	115.90	1,749.5	-1,074.1	1,044.6	999.0	45.59	22.909		
8,000.0	7,890.0	7,892.6	7,796.3	25.7	24.2	115.91	1,748.8	-1,075.3	1,044.6	998.8	45.84	22.787		
8,100.0	7,990.0	7,992.6	7,896.3	25.8	24.4	115.92	1,748.1	-1,076.5	1,044.7	998.6	46.09	22.666		
8,200.0	8,090.0	8,092.6	7,996.3	25.9	24.5	115.93	1,747.4	-1,077.7	1,044.8	998.4	46.34	22.545		
8,300.0	8,190.0	8,192.6	8,096.3	26.0	24.6	115.93	1,746.7	-1,078.9	1,044.9	998.3	46.59	22.425		
8,400.0	8,290.0	8,292.6	8,196.3	26.2	24.7	115.94	1,746.0	-1,080.1	1,044.9	998.1	46.85	22.305		
8,500.0	8,390.0	8,392.6	8,296.2	26.3	24.8	115.95	1,745.3	-1,081.2	1,045.0	997.9	47.10	22.186		
8,600.0	8,489.9	8,492.6	8,396.2	26.4	25.0	115.96	1,744.7	-1,082.4	1,045.1	997.7	47.36	22.068		
8,700.0	8,589.9	8,592.6	8,496.2	26.5	25.1	115.97	1,744.0	-1,083.6	1,045.2	997.6	47.61	21.951		
8,800.0	8,689.9	8,692.6	8,596.2	26.6	25.2	115.98	1,743.3	-1,084.8	1,045.3	997.4	47.87	21.834		
8,900.0	8,789.9	8,792.6	8,696.2	26.7	25.3	115.99	1,742.6	-1,086.0	1,045.3	997.2	48.13	21.718		
9,000.0	8,889.9	8,892.6	8,796.2	26.8	25.5	116.00	1,741.9	-1,087.2	1,045.4	997.0	48.39	21.603		
9,100.0	8,989.9	8,992.6	8,896.2	26.9	25.6	116.01	1,741.2	-1,088.4	1,045.5	996.8	48.65	21.488		
9,200.0	9,089.9	9,092.6	8,996.2	27.0	25.7	116.02	1,740.5	-1,089.5	1,045.6	996.7	48.92	21.375		
9,300.0	9,189.9	9,192.6	9,096.2	27.1	25.8	116.03	1,739.9	-1,090.7	1,045.7	996.5	49.18	21.262		
9,400.0	9,289.8	9,292.6	9,196.2	27.3	26.0	116.04	1,739.2	-1,091.9	1,045.7	996.3	49.45	21.149		
9,500.0	9,389.8	9,392.6	9,296.2	27.4	26.1	116.05	1,738.5	-1,093.1	1,045.8	996.1	49.71	21.038		
9,600.0	9,489.8	9,492.6	9,396.1	27.5	26.2	116.06	1,737.8	-1,094.3	1,045.9	995.9	49.98	20.927		
9,700.0	9,589.8	9,592.6	9,496.1	27.6	26.3	116.06	1,737.1	-1,095.5	1,046.0	995.7	50.25	20.817		
9,800.0	9,689.8	9,692.6	9,596.1	27.7	26.5	116.07	1,736.4	-1,096.7	1,046.1	995.5	50.52	20.707		
9,900.0	9,789.8	9,792.6	9,696.1	27.8	26.6	116.08	1,735.7	-1,097.8	1,046.1	995.3	50.79	20.599		
10,000.0	9,889.8	9,892.6	9,796.1	28.0	26.7	116.09	1,735.1	-1,099.0	1,046.2	995.2	51.06	20.491		
10,100.0	9,989.8	9,992.6	9,896.1	28.1	26.9	116.10	1,734.4	-1,100.2	1,046.3	995.0	51.33	20.384		
10,164.2	10,054.0	10,056.9	9,960.3	28.2	26.9	116.11	1,733.9	-1,101.0	1,046.3	994.8	51.50	20.316 ES, SF		

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

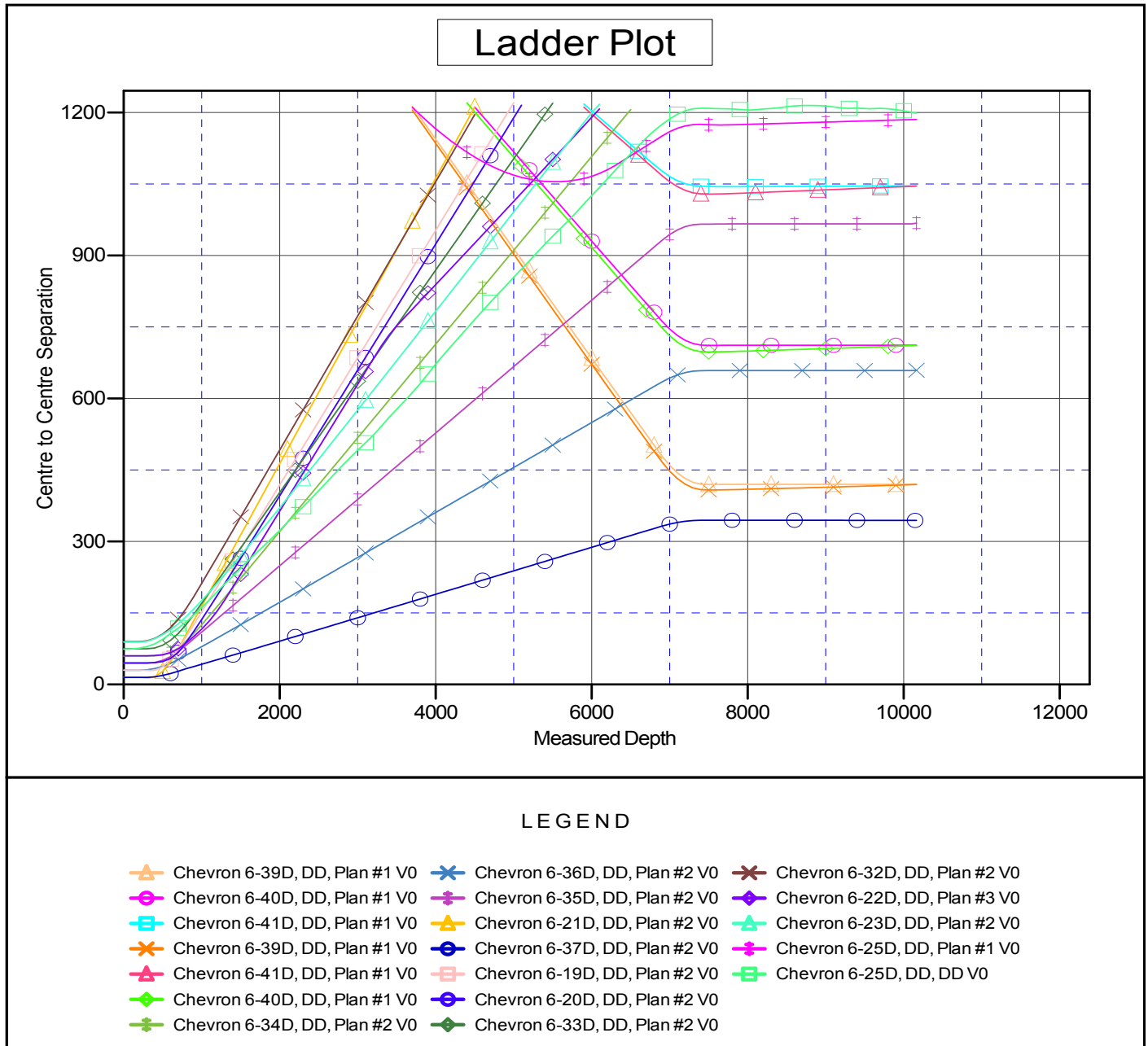
Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-38D
Project:	Garfield County	TVD Reference:	KBE @ 8244.0ft (Original Well Elev)
Reference Site:	Sec 6 T6S R96W (F06 696)	MD Reference:	KBE @ 8244.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-38D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KBE @ 8244.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Chevron 6-38D
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.67°



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