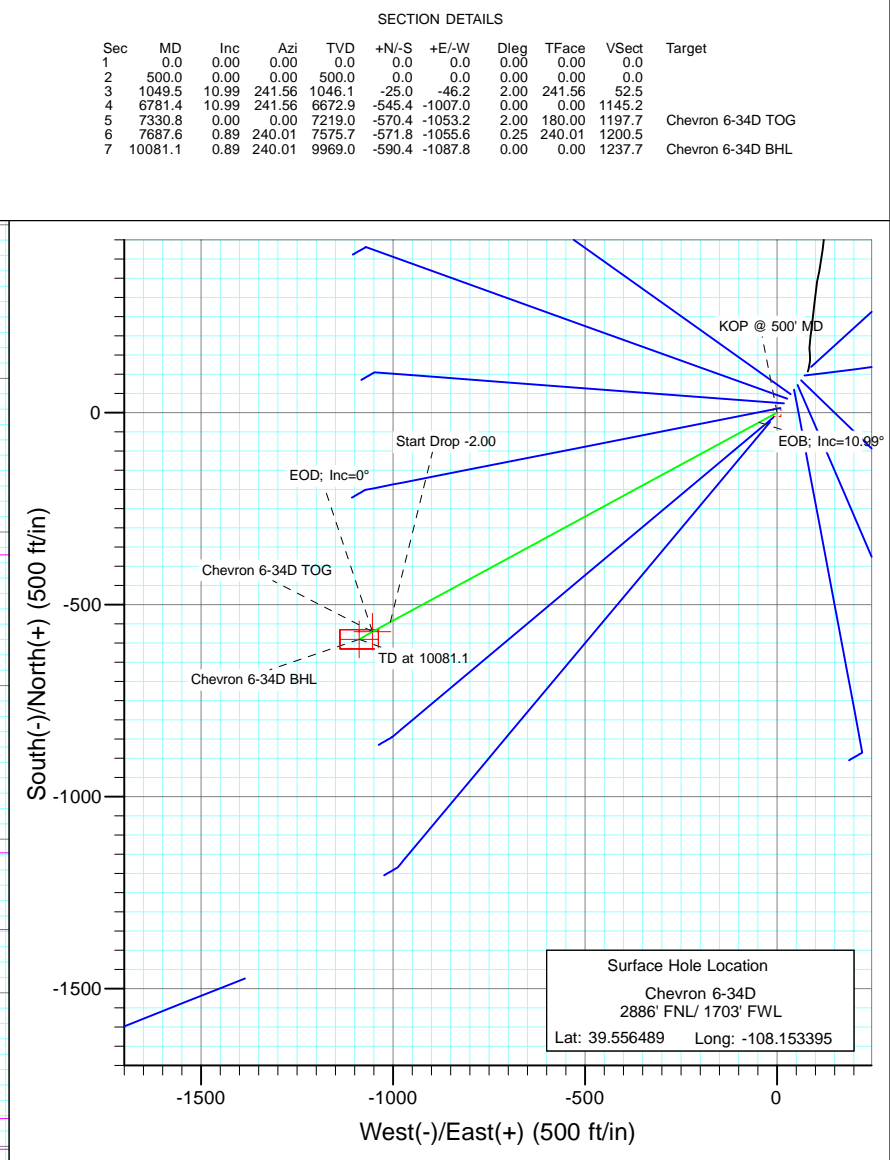
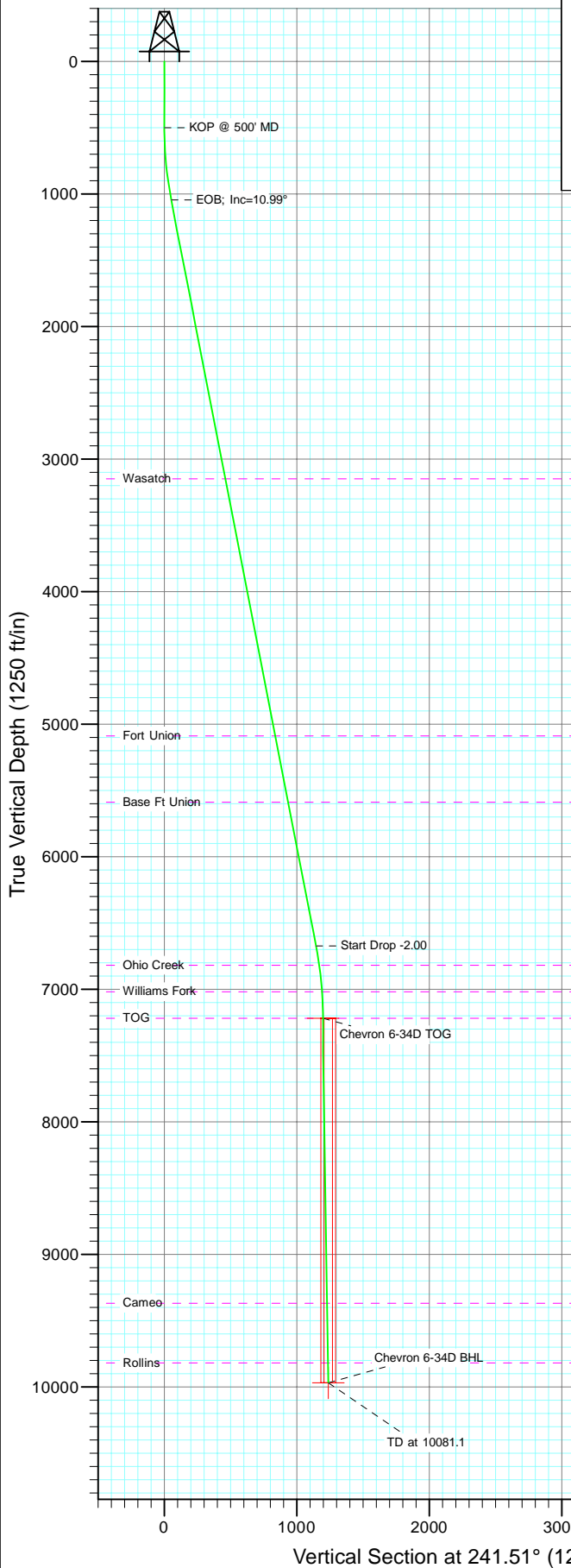




Project: Garfield County
Site: Sec 6 T6S R96W (F06 696)
Well: Chevron 6-34D
Wellbore: DD
Design: Plan #2



Azimuths to True North
Magnetic North: 10.61°
Magnetic Field
Strength: 52426.9snT
Dip Angle: 65.81°
Date: 12/2/2009
Model: IGRF200510

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3149.0	3191.6	Wasatch
5089.0	5167.9	Fort Union
5589.0	5677.2	Base Ft Union
6819.0	6929.5	Ohio Creek
7019.0	7130.7	Williams Fork
7219.0	7330.8	TOG
9369.0	9481.1	Cameo
9819.0	9931.1	Rollins

DESIGN DETAILS: Plan #2

95XXX; BH
KBE @ 8244.0ft (Original Well Elev)

Target	Azimuth	Origin	N/S	E/W	From TVD
Chevron 6-34D BHL	241.51	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 6-34D
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 6-34D	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 6-34D			
Well Position	+N/-S	0.0 ft	Northing:	1,638,507.77 ft
	+E/-W	0.0 ft	Easting:	2,251,965.07 ft
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	241.51

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,049.5	10.99	241.56	1,046.1	-25.0	-46.2	2.00	2.00	0.00	241.56	
6,781.4	10.99	241.56	6,672.9	-545.4	-1,007.0	0.00	0.00	0.00	0.00	
7,330.8	0.00	0.00	7,219.0	-570.4	-1,053.2	2.00	-2.00	0.00	180.00	Chevron 6-34D TOG
7,687.6	0.89	240.01	7,575.7	-571.8	-1,055.6	0.25	0.25	-33.64	240.01	
10,081.1	0.89	240.01	9,969.0	-590.4	-1,087.8	0.00	0.00	0.00	0.00	Chevron 6-34D BHL

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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	
210.0	0.00	0.00	210.0	0.0	0.0	0.0	0.00	0.00	
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	
270.0	0.00	0.00	270.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
330.0	0.00	0.00	330.0	0.0	0.0	0.0	0.00	0.00	
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	
390.0	0.00	0.00	390.0	0.0	0.0	0.0	0.00	0.00	
420.0	0.00	0.00	420.0	0.0	0.0	0.0	0.00	0.00	
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500' MD
510.0	0.20	241.56	510.0	0.0	0.0	0.0	2.00	2.00	
540.0	0.80	241.56	540.0	-0.1	-0.2	0.3	2.00	2.00	
570.0	1.40	241.56	570.0	-0.4	-0.8	0.9	2.00	2.00	
600.0	2.00	241.56	600.0	-0.8	-1.5	1.7	2.00	2.00	
630.0	2.60	241.56	630.0	-1.4	-2.6	2.9	2.00	2.00	
660.0	3.20	241.56	659.9	-2.1	-3.9	4.5	2.00	2.00	
690.0	3.80	241.56	689.9	-3.0	-5.5	6.3	2.00	2.00	
720.0	4.40	241.56	719.8	-4.0	-7.4	8.4	2.00	2.00	
750.0	5.00	241.56	749.7	-5.2	-9.6	10.9	2.00	2.00	
780.0	5.60	241.56	779.6	-6.5	-12.0	13.7	2.00	2.00	
810.0	6.20	241.56	809.4	-8.0	-14.7	16.8	2.00	2.00	
840.0	6.80	241.56	839.2	-9.6	-17.7	20.2	2.00	2.00	
870.0	7.40	241.56	869.0	-11.4	-21.0	23.9	2.00	2.00	
900.0	8.00	241.56	898.7	-13.3	-24.5	27.9	2.00	2.00	
930.0	8.60	241.56	928.4	-15.3	-28.3	32.2	2.00	2.00	
960.0	9.20	241.56	958.0	-17.6	-32.4	36.9	2.00	2.00	
990.0	9.80	241.56	987.6	-19.9	-36.8	41.8	2.00	2.00	
1,020.0	10.40	241.56	1,017.1	-22.4	-41.4	47.1	2.00	2.00	
1,049.5	10.99	241.56	1,046.1	-25.0	-46.2	52.5	2.00	2.00	EOB; Inc=10.99°
1,050.0	10.99	241.56	1,046.6	-25.1	-46.3	52.6	0.00	0.00	
1,080.0	10.99	241.56	1,076.1	-27.8	-51.3	58.4	0.00	0.00	
1,110.0	10.99	241.56	1,105.5	-30.5	-56.3	64.1	0.00	0.00	
1,140.0	10.99	241.56	1,135.0	-33.2	-61.4	69.8	0.00	0.00	
1,170.0	10.99	241.56	1,164.4	-36.0	-66.4	75.5	0.00	0.00	
1,200.0	10.99	241.56	1,193.9	-38.7	-71.4	81.2	0.00	0.00	
1,230.0	10.99	241.56	1,223.3	-41.4	-76.5	86.9	0.00	0.00	
1,260.0	10.99	241.56	1,252.8	-44.1	-81.5	92.7	0.00	0.00	
1,290.0	10.99	241.56	1,282.2	-46.9	-86.5	98.4	0.00	0.00	
1,320.0	10.99	241.56	1,311.7	-49.6	-91.5	104.1	0.00	0.00	
1,350.0	10.99	241.56	1,341.1	-52.3	-96.6	109.8	0.00	0.00	
1,380.0	10.99	241.56	1,370.6	-55.0	-101.6	115.5	0.00	0.00	
1,410.0	10.99	241.56	1,400.0	-57.7	-106.6	121.3	0.00	0.00	
1,440.0	10.99	241.56	1,429.5	-60.5	-111.7	127.0	0.00	0.00	
1,470.0	10.99	241.56	1,458.9	-63.2	-116.7	132.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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	10.99	241.56	1,488.4	-65.9	-121.7	138.4	0.00	0.00	
1,530.0	10.99	241.56	1,517.8	-68.6	-126.7	144.1	0.00	0.00	
1,560.0	10.99	241.56	1,547.3	-71.4	-131.8	149.9	0.00	0.00	
1,590.0	10.99	241.56	1,576.7	-74.1	-136.8	155.6	0.00	0.00	
1,620.0	10.99	241.56	1,606.2	-76.8	-141.8	161.3	0.00	0.00	
1,650.0	10.99	241.56	1,635.6	-79.5	-146.9	167.0	0.00	0.00	
1,680.0	10.99	241.56	1,665.1	-82.3	-151.9	172.7	0.00	0.00	
1,710.0	10.99	241.56	1,694.5	-85.0	-156.9	178.4	0.00	0.00	
1,740.0	10.99	241.56	1,724.0	-87.7	-161.9	184.2	0.00	0.00	
1,770.0	10.99	241.56	1,753.4	-90.4	-167.0	189.9	0.00	0.00	
1,800.0	10.99	241.56	1,782.9	-93.2	-172.0	195.6	0.00	0.00	
1,830.0	10.99	241.56	1,812.3	-95.9	-177.0	201.3	0.00	0.00	
1,860.0	10.99	241.56	1,841.8	-98.6	-182.1	207.0	0.00	0.00	
1,890.0	10.99	241.56	1,871.2	-101.3	-187.1	212.8	0.00	0.00	
1,920.0	10.99	241.56	1,900.7	-104.0	-192.1	218.5	0.00	0.00	
1,950.0	10.99	241.56	1,930.1	-106.8	-197.1	224.2	0.00	0.00	
1,980.0	10.99	241.56	1,959.6	-109.5	-202.2	229.9	0.00	0.00	
2,010.0	10.99	241.56	1,989.0	-112.2	-207.2	235.6	0.00	0.00	
2,040.0	10.99	241.56	2,018.5	-114.9	-212.2	241.4	0.00	0.00	
2,070.0	10.99	241.56	2,047.9	-117.7	-217.3	247.1	0.00	0.00	
2,100.0	10.99	241.56	2,077.4	-120.4	-222.3	252.8	0.00	0.00	
2,130.0	10.99	241.56	2,106.8	-123.1	-227.3	258.5	0.00	0.00	
2,160.0	10.99	241.56	2,136.3	-125.8	-232.3	264.2	0.00	0.00	
2,190.0	10.99	241.56	2,165.7	-128.6	-237.4	269.9	0.00	0.00	
2,220.0	10.99	241.56	2,195.2	-131.3	-242.4	275.7	0.00	0.00	
2,250.0	10.99	241.56	2,224.6	-134.0	-247.4	281.4	0.00	0.00	
2,280.0	10.99	241.56	2,254.1	-136.7	-252.5	287.1	0.00	0.00	
2,310.0	10.99	241.56	2,283.5	-139.5	-257.5	292.8	0.00	0.00	
2,340.0	10.99	241.56	2,313.0	-142.2	-262.5	298.5	0.00	0.00	
2,370.0	10.99	241.56	2,342.4	-144.9	-267.5	304.3	0.00	0.00	
2,400.0	10.99	241.56	2,371.9	-147.6	-272.6	310.0	0.00	0.00	
2,430.0	10.99	241.56	2,401.3	-150.3	-277.6	315.7	0.00	0.00	
2,460.0	10.99	241.56	2,430.8	-153.1	-282.6	321.4	0.00	0.00	
2,490.0	10.99	241.56	2,460.2	-155.8	-287.7	327.1	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 6-34D TOG	0.00	0.00	7,219.0	-570.4	-1,053.2	1,637,968.37	2,250,895.71	39.554923	-108.157130
- plan misses target center by 4837.8ft at 2490.0ft MD (2460.2 TVD, -155.8 N, -287.7 E)									
- Point									
Chevron 6-34D BHL	0.00	0.00	9,969.0	-590.4	-1,087.8	1,637,949.38	2,250,860.47	39.554868	-108.157253
- plan misses target center by 7563.8ft at 2490.0ft MD (2460.2 TVD, -155.8 N, -287.7 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 6-34D	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	10.99	241.56	2,470.0	-156.7	-289.3	329.0	0.00	0.00	
2,600.0	10.99	241.56	2,568.2	-165.8	-306.1	348.1	0.00	0.00	
2,700.0	10.99	241.56	2,666.4	-174.9	-322.9	367.2	0.00	0.00	
2,800.0	10.99	241.56	2,764.5	-183.9	-339.6	386.2	0.00	0.00	
2,900.0	10.99	241.56	2,862.7	-193.0	-356.4	405.3	0.00	0.00	
3,000.0	10.99	241.56	2,960.9	-202.1	-373.1	424.3	0.00	0.00	
3,100.0	10.99	241.56	3,059.0	-211.2	-389.9	443.4	0.00	0.00	
3,191.6	10.99	241.56	3,149.0	-219.5	-405.3	460.9	0.00	0.00	Wasatch
3,200.0	10.99	241.56	3,157.2	-220.3	-406.7	462.5	0.00	0.00	
3,300.0	10.99	241.56	3,255.4	-229.3	-423.4	481.5	0.00	0.00	
3,400.0	10.99	241.56	3,353.5	-238.4	-440.2	500.6	0.00	0.00	
3,500.0	10.99	241.56	3,451.7	-247.5	-456.9	519.7	0.00	0.00	
3,600.0	10.99	241.56	3,549.9	-256.6	-473.7	538.7	0.00	0.00	
3,700.0	10.99	241.56	3,648.0	-265.6	-490.5	557.8	0.00	0.00	
3,800.0	10.99	241.56	3,746.2	-274.7	-507.2	576.8	0.00	0.00	
3,900.0	10.99	241.56	3,844.4	-283.8	-524.0	595.9	0.00	0.00	
4,000.0	10.99	241.56	3,942.5	-292.9	-540.8	615.0	0.00	0.00	
4,100.0	10.99	241.56	4,040.7	-302.0	-557.5	634.0	0.00	0.00	
4,200.0	10.99	241.56	4,138.9	-311.0	-574.3	653.1	0.00	0.00	
4,300.0	10.99	241.56	4,237.0	-320.1	-591.0	672.2	0.00	0.00	
4,400.0	10.99	241.56	4,335.2	-329.2	-607.8	691.2	0.00	0.00	
4,500.0	10.99	241.56	4,433.4	-338.3	-624.6	710.3	0.00	0.00	
4,600.0	10.99	241.56	4,531.5	-347.3	-641.3	729.3	0.00	0.00	
4,700.0	10.99	241.56	4,629.7	-356.4	-658.1	748.4	0.00	0.00	
4,800.0	10.99	241.56	4,727.9	-365.5	-674.8	767.5	0.00	0.00	
4,900.0	10.99	241.56	4,826.0	-374.6	-691.6	786.5	0.00	0.00	
5,000.0	10.99	241.56	4,924.2	-383.7	-708.4	805.6	0.00	0.00	
5,100.0	10.99	241.56	5,022.4	-392.7	-725.1	824.7	0.00	0.00	
5,167.9	10.99	241.56	5,089.0	-398.9	-736.5	837.6	0.00	0.00	Fort Union
5,200.0	10.99	241.56	5,120.5	-401.8	-741.9	843.7	0.00	0.00	
5,300.0	10.99	241.56	5,218.7	-410.9	-758.7	862.8	0.00	0.00	
5,400.0	10.99	241.56	5,316.9	-420.0	-775.4	881.8	0.00	0.00	
5,500.0	10.99	241.56	5,415.0	-429.1	-792.2	900.9	0.00	0.00	
5,600.0	10.99	241.56	5,513.2	-438.1	-808.9	920.0	0.00	0.00	
5,677.2	10.99	241.56	5,589.0	-445.1	-821.9	934.7	0.00	0.00	Base Ft Union
5,700.0	10.99	241.56	5,611.4	-447.2	-825.7	939.0	0.00	0.00	
5,800.0	10.99	241.56	5,709.5	-456.3	-842.5	958.1	0.00	0.00	
5,900.0	10.99	241.56	5,807.7	-465.4	-859.2	977.2	0.00	0.00	
6,000.0	10.99	241.56	5,905.9	-474.4	-876.0	996.2	0.00	0.00	
6,100.0	10.99	241.56	6,004.0	-483.5	-892.7	1,015.3	0.00	0.00	
6,200.0	10.99	241.56	6,102.2	-492.6	-909.5	1,034.3	0.00	0.00	
6,300.0	10.99	241.56	6,200.4	-501.7	-926.3	1,053.4	0.00	0.00	
6,400.0	10.99	241.56	6,298.5	-510.8	-943.0	1,072.5	0.00	0.00	
6,500.0	10.99	241.56	6,396.7	-519.8	-959.8	1,091.5	0.00	0.00	
6,600.0	10.99	241.56	6,494.9	-528.9	-976.6	1,110.6	0.00	0.00	
6,700.0	10.99	241.56	6,593.0	-538.0	-993.3	1,129.7	0.00	0.00	
6,781.4	10.99	241.56	6,672.9	-545.4	-1,007.0	1,145.2	0.00	0.00	Start Drop -2.00
6,800.0	10.62	241.56	6,691.2	-547.0	-1,010.0	1,148.7	2.00	-2.00	
6,900.0	8.62	241.56	6,789.8	-555.0	-1,024.7	1,165.4	2.00	-2.00	
6,929.5	8.03	241.56	6,819.0	-557.0	-1,028.5	1,169.6	2.00	-2.00	Ohio Creek
7,000.0	6.62	241.56	6,888.9	-561.3	-1,036.4	1,178.6	2.00	-2.00	
7,100.0	4.62	241.56	6,988.4	-566.0	-1,045.0	1,188.4	2.00	-2.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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
7,130.7	4.00	241.56	7,019.0	-567.1	-1,047.0	1,190.7	2.00	-2.00	Williams Fork
7,200.0	2.62	241.56	7,088.2	-569.0	-1,050.5	1,194.7	2.00	-2.00	
7,300.0	0.62	241.56	7,188.2	-570.3	-1,053.0	1,197.5	2.00	-2.00	
7,330.8	0.00	0.00	7,219.0	-570.4	-1,053.2	1,197.7	2.00	-2.00	EOD; Inc=0° - TOG - Chevron 6-34D TOG
7,400.0	0.17	240.01	7,288.2	-570.5	-1,053.2	1,197.8	0.25	0.25	
7,500.0	0.42	240.01	7,388.2	-570.7	-1,053.7	1,198.3	0.25	0.25	
7,600.0	0.67	240.01	7,488.2	-571.2	-1,054.5	1,199.3	0.25	0.25	
7,687.6	0.89	240.01	7,575.7	-571.8	-1,055.6	1,200.5	0.25	0.25	
7,700.0	0.89	240.01	7,588.2	-571.9	-1,055.7	1,200.7	0.00	0.00	
7,800.0	0.89	240.01	7,688.1	-572.7	-1,057.1	1,202.2	0.00	0.00	
7,900.0	0.89	240.01	7,788.1	-573.4	-1,058.4	1,203.8	0.00	0.00	
8,000.0	0.89	240.01	7,888.1	-574.2	-1,059.8	1,205.3	0.00	0.00	
8,100.0	0.89	240.01	7,988.1	-575.0	-1,061.1	1,206.9	0.00	0.00	
8,200.0	0.89	240.01	8,088.1	-575.8	-1,062.5	1,208.4	0.00	0.00	
8,300.0	0.89	240.01	8,188.1	-576.6	-1,063.8	1,210.0	0.00	0.00	
8,400.0	0.89	240.01	8,288.1	-577.3	-1,065.2	1,211.6	0.00	0.00	
8,500.0	0.89	240.01	8,388.1	-578.1	-1,066.5	1,213.1	0.00	0.00	
8,600.0	0.89	240.01	8,488.0	-578.9	-1,067.9	1,214.7	0.00	0.00	
8,700.0	0.89	240.01	8,588.0	-579.7	-1,069.2	1,216.2	0.00	0.00	
8,800.0	0.89	240.01	8,688.0	-580.4	-1,070.6	1,217.8	0.00	0.00	
8,900.0	0.89	240.01	8,788.0	-581.2	-1,071.9	1,219.3	0.00	0.00	
9,000.0	0.89	240.01	8,888.0	-582.0	-1,073.2	1,220.9	0.00	0.00	
9,100.0	0.89	240.01	8,988.0	-582.8	-1,074.6	1,222.5	0.00	0.00	
9,200.0	0.89	240.01	9,088.0	-583.6	-1,075.9	1,224.0	0.00	0.00	
9,300.0	0.89	240.01	9,188.0	-584.3	-1,077.3	1,225.6	0.00	0.00	
9,400.0	0.89	240.01	9,287.9	-585.1	-1,078.6	1,227.1	0.00	0.00	
9,481.1	0.89	240.01	9,369.0	-585.7	-1,079.7	1,228.4	0.00	0.00	Cameo
9,500.0	0.89	240.01	9,387.9	-585.9	-1,080.0	1,228.7	0.00	0.00	
9,600.0	0.89	240.01	9,487.9	-586.7	-1,081.3	1,230.2	0.00	0.00	
9,700.0	0.89	240.01	9,587.9	-587.4	-1,082.7	1,231.8	0.00	0.00	
9,800.0	0.89	240.01	9,687.9	-588.2	-1,084.0	1,233.3	0.00	0.00	
9,900.0	0.89	240.01	9,787.9	-589.0	-1,085.4	1,234.9	0.00	0.00	
9,931.1	0.89	240.01	9,819.0	-589.2	-1,085.8	1,235.4	0.00	0.00	Rollins
10,000.0	0.89	240.01	9,887.9	-589.8	-1,086.7	1,236.5	0.00	0.00	
10,081.1	0.89	240.01	9,969.0	-590.4	-1,087.8	1,237.7	0.00	0.00	TD at 10081.1 - Chevron 6-34D 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 6-34D TOG	0.00	0.00	7,219.0	-570.4	-1,053.2	1,637,968.37	2,250,895.71	39.554923	-108.157130
- plan hits target center									
- Point									
Chevron 6-34D BHL	0.00	0.00	9,969.0	-590.4	-1,087.8	1,637,949.38	2,250,860.47	39.554868	-108.157253
- 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 6-34D
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 6-34D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,191.6	3,149.0	Wasatch		0.00		
5,167.9	5,089.0	Fort Union		0.00		
5,677.2	5,589.0	Base Ft Union		0.00		
6,929.5	6,819.0	Ohio Creek		0.00		
7,130.7	7,019.0	Williams Fork		0.00		
7,330.8	7,219.0	TOG		0.00		
9,481.1	9,369.0	Cameo		0.00		
9,931.1	9,819.0	Rollins		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
500.0	500.0	0.0	0.0	KOP @ 500' MD	
1,049.5	1,046.1	-25.0	-46.2	EOB; Inc=10.99°	
6,781.4	6,672.9	-545.4	-1,007.0	Start Drop -2.00	
7,330.8	7,219.0	-570.4	-1,053.2	EOD; Inc=0°	
10,081.1	9,969.0	-571.8	-1,055.6	TD at 10081.1	

Berry Petroleum Company (NAD 83)

Garfield County

Sec 6 T6S R96W (F06 696)

Chevron 6-34D

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 6-34D
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 6-34D	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	10,081.1	Plan #2 (DD)	MWD	Geolink MWD	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
NESE Sec 1-T6S-R97W						
Chevron 6-31D(Berry) - DD - Plan #1	7,658.1	7,822.0	960.5	917.4	22.276	CC, ES
Chevron 6-31D(Berry) - DD - Plan #1	7,700.0	7,822.0	961.4	918.2	22.268	SF
Sec 6 T6S R96W (F06 696)						
Chevron 6-19D - DD - Plan #2	574.9	577.9	82.0	80.0	40.199	CC, ES
Chevron 6-19D - DD - Plan #2	900.0	900.4	106.0	102.7	31.590	SF
Chevron 6-20D - DD - Plan #2	500.0	500.0	105.0	103.4	62.953	CC, ES
Chevron 6-20D - DD - Plan #2	900.0	898.0	132.1	129.0	42.368	SF
Chevron 6-21D - DD - Plan #2	629.1	633.5	61.0	58.7	26.392	CC, ES
Chevron 6-21D - DD - Plan #2	800.0	802.6	70.1	67.0	22.523	SF
Chevron 6-22D - DD - Plan #3	500.0	500.0	120.2	118.5	72.035	CC, ES
Chevron 6-22D - DD - Plan #3	1,000.0	997.5	160.7	157.3	47.119	SF
Chevron 6-23D - DD - Plan #2	200.0	200.0	149.0	148.4	239.861	CC, ES
Chevron 6-23D - DD - Plan #2	1,000.0	982.2	238.3	235.0	70.587	SF
Chevron 6-25D - DD - DD	0.0	0.0	134.0			
Chevron 6-25D - DD - DD	3,200.0	3,080.6	893.3	880.5	69.864	SF
Chevron 6-32D - DD - Plan #2	200.0	200.0	29.9	29.3	48.108	CC, ES
Chevron 6-32D - DD - Plan #2	10,081.1	10,121.5	617.9	564.6	11.599	SF
Chevron 6-33D - DD - Plan #2	300.0	300.0	15.0	14.1	15.488	CC, ES
Chevron 6-33D - DD - Plan #2	10,081.1	10,086.8	279.5	225.2	5.150	SF
Chevron 6-35D - DD - Plan #2	549.0	549.4	10.2	8.3	5.416	CC, ES
Chevron 6-35D - DD - Plan #2	600.0	600.2	11.0	8.9	5.265	SF
Chevron 6-36D - DD - Plan #2	502.7	503.2	25.3	23.6	14.409	CC, ES
Chevron 6-36D - DD - Plan #2	10,081.1	10,058.5	676.1	623.9	12.968	SF
Chevron 6-37D - DD - Plan #2	527.7	528.3	43.4	41.6	24.137	CC, ES
Chevron 6-37D - DD - Plan #2	10,081.1	10,078.0	1,002.7	950.0	19.033	SF
Chevron 6-38D - DD - Plan #2	285.4	285.4	59.9	59.0	65.118	CC
Chevron 6-38D - DD - Plan #2	400.0	399.8	60.2	58.9	45.509	ES
Chevron 6-38D - DD - Plan #2	700.0	695.6	76.8	74.2	29.543	SF

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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- NESE Sec 1-T6S-R97W - Chevron 6-31D(Berry) - DD - Plan #1													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)		+N/-S (ft)	+E/-W (ft)						
6,400.0	6,298.5	6,777.5	6,634.7	22.1	26.3	-33.05	-1,532.3	-1,534.0	1,198.4	1,164.2	34.17	35.067		
6,500.0	6,396.7	6,869.1	6,724.1	22.5	26.7	-34.19	-1,524.9	-1,515.3	1,165.6	1,130.3	35.22	33.092		
6,600.0	6,494.9	6,960.7	6,813.5	22.9	27.1	-35.40	-1,517.5	-1,496.6	1,133.2	1,096.9	36.31	31.206		
6,700.0	6,593.0	7,052.3	6,902.9	23.3	27.5	-36.67	-1,510.1	-1,477.9	1,101.3	1,063.9	37.45	29.408		
6,800.0	6,691.2	7,144.0	6,992.3	23.7	27.8	-37.93	-1,502.7	-1,459.2	1,070.1	1,031.5	38.61	27.718		
6,900.0	6,789.8	7,226.5	7,072.8	24.0	28.2	-38.74	-1,496.2	-1,442.6	1,041.4	1,001.8	39.52	26.349		
7,000.0	6,888.9	7,300.0	7,144.9	24.2	28.5	-39.36	-1,490.9	-1,429.4	1,017.4	977.1	40.27	25.265		
7,100.0	6,988.4	7,379.2	7,223.0	24.4	28.7	-39.95	-1,486.0	-1,417.0	998.1	957.2	40.95	24.376		
7,200.0	7,088.2	7,458.3	7,301.4	24.6	28.9	-40.42	-1,482.0	-1,406.7	983.7	942.2	41.52	23.694		
7,300.0	7,188.2	7,538.7	7,381.2	24.7	29.1	-40.77	-1,478.6	-1,398.3	973.9	931.9	41.97	23.204		
7,400.0	7,288.2	7,619.8	7,462.0	24.8	29.2	-39.51	-1,476.1	-1,391.9	968.0	925.6	42.36	22.850		
7,500.0	7,388.2	7,700.0	7,542.1	24.9	29.4	-39.73	-1,474.4	-1,387.7	963.8	921.1	42.70	22.569		
7,600.0	7,488.2	7,782.9	7,624.9	25.0	29.4	-39.87	-1,473.6	-1,385.5	961.2	918.2	42.98	22.362		
7,658.1	7,546.3	7,822.0	7,664.0	25.1	29.5	-39.90	-1,473.5	-1,385.3	960.5	917.4	43.12	22.276 CC, ES		
7,700.0	7,588.2	7,822.0	7,664.0	25.1	29.5	-39.90	-1,473.5	-1,385.3	961.4	918.2	43.17	22.268 SF		
7,800.0	7,688.1	7,822.0	7,664.0	25.2	29.5	-39.90	-1,473.5	-1,385.3	970.7	927.4	43.31	22.416		
7,900.0	7,788.1	7,822.0	7,664.0	25.4	29.5	-39.90	-1,473.5	-1,385.3	990.2	946.8	43.44	22.795		
8,000.0	7,888.1	7,822.0	7,664.0	25.5	29.5	-39.90	-1,473.5	-1,385.3	1,019.1	975.6	43.57	23.388		
8,100.0	7,988.1	7,822.0	7,664.0	25.6	29.5	-39.90	-1,473.5	-1,385.3	1,056.8	1,013.1	43.71	24.177		
8,200.0	8,088.1	7,822.0	7,664.0	25.7	29.5	-39.90	-1,473.5	-1,385.3	1,102.2	1,058.4	43.85	25.139		
8,300.0	8,188.1	7,822.0	7,664.0	25.8	29.5	-39.90	-1,473.5	-1,385.3	1,154.6	1,110.6	43.98	26.251		
8,400.0	8,288.1	7,822.0	7,664.0	25.9	29.5	-39.90	-1,473.5	-1,385.3	1,212.9	1,168.8	44.12	27.492		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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 6-19D - 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	36.75	72.1	53.9	90.0					
100.0	100.0	100.0	100.0	0.1	0.1	36.75	72.1	53.9	90.0	89.7	0.27	330.586		
200.0	200.0	200.0	200.0	0.3	0.3	36.75	72.1	53.9	90.0	89.4	0.62	144.864		
300.0	300.0	301.5	301.5	0.5	0.5	37.75	70.5	54.6	89.1	88.2	0.97	91.599		
400.0	400.0	402.8	402.7	0.7	0.7	40.87	65.5	56.7	86.7	85.4	1.32	65.454		
500.0	500.0	503.3	502.8	0.8	0.9	46.29	57.5	60.2	83.3	81.6	1.68	49.694		
574.9	574.9	577.9	577.0	1.0	1.1	169.60	51.0	63.0	82.0	80.0	2.04	40.199 CC, ES		
600.0	600.0	602.9	601.9	1.0	1.1	171.31	48.8	63.9	82.2	80.0	2.14	38.357		
700.0	699.8	702.3	700.8	1.2	1.4	178.05	40.0	67.7	85.6	83.1	2.55	33.585		
800.0	799.5	801.5	799.6	1.4	1.6	-175.96	31.3	71.5	93.7	90.7	2.96	31.702		
900.0	898.7	900.4	898.1	1.6	1.8	-171.22	22.6	75.3	106.0	102.7	3.36	31.590 SF		
1,000.0	997.5	998.9	996.0	1.9	2.1	-167.80	13.9	79.0	122.3	118.5	3.76	32.562		
1,100.0	1,095.7	1,096.8	1,093.5	2.3	2.3	-165.50	5.3	82.7	141.8	137.6	4.16	34.041		
1,200.0	1,193.9	1,194.7	1,191.0	2.6	2.5	-163.84	-3.4	86.5	161.8	157.2	4.59	35.278		
1,300.0	1,292.0	1,292.6	1,288.4	2.9	2.8	-162.54	-12.0	90.2	182.0	176.9	5.01	36.289		
1,400.0	1,390.2	1,390.5	1,385.8	3.3	3.0	-161.50	-20.6	93.9	202.2	196.7	5.45	37.124		
1,500.0	1,488.4	1,488.3	1,483.2	3.7	3.3	-160.65	-29.2	97.6	222.4	216.6	5.88	37.821		
1,600.0	1,586.5	1,586.2	1,580.7	4.0	3.5	-159.94	-37.8	101.3	242.8	236.4	6.32	38.410		
1,700.0	1,684.7	1,684.1	1,678.1	4.4	3.7	-159.34	-46.4	105.1	263.1	256.3	6.76	38.912		
1,800.0	1,782.9	1,782.0	1,775.5	4.8	4.0	-158.83	-55.1	108.8	283.5	276.2	7.20	39.343		
1,900.0	1,881.0	1,879.8	1,872.9	5.1	4.2	-158.38	-63.7	112.5	303.8	296.2	7.65	39.718		
2,000.0	1,979.2	1,977.7	1,970.4	5.5	4.4	-158.00	-72.3	116.2	324.2	316.1	8.10	40.045		
2,100.0	2,077.4	2,075.6	2,067.8	5.9	4.7	-157.65	-80.9	120.0	344.6	336.1	8.54	40.333		
2,200.0	2,175.5	2,173.5	2,165.2	6.3	4.9	-157.35	-89.5	123.7	365.1	356.1	8.99	40.589		
2,300.0	2,273.7	2,271.3	2,262.6	6.6	5.1	-157.08	-98.1	127.4	385.5	376.0	9.44	40.816		
2,400.0	2,371.9	2,369.2	2,360.1	7.0	5.4	-156.83	-106.8	131.1	405.9	396.0	9.90	41.021		
2,500.0	2,470.0	2,467.1	2,457.5	7.4	5.6	-156.61	-115.4	134.8	426.4	416.0	10.35	41.205		
2,600.0	2,568.2	2,565.0	2,554.9	7.8	5.8	-156.41	-124.0	138.6	446.8	436.0	10.80	41.371		
2,700.0	2,666.4	2,662.8	2,652.3	8.1	6.1	-156.23	-132.6	142.3	467.3	456.0	11.25	41.522		
2,800.0	2,764.5	2,760.7	2,749.8	8.5	6.3	-156.06	-141.2	146.0	487.7	476.0	11.71	41.661		
2,900.0	2,862.7	2,858.6	2,847.2	8.9	6.6	-155.90	-149.9	149.7	508.2	496.0	12.16	41.787		
3,000.0	2,960.9	2,956.5	2,944.6	9.3	6.8	-155.76	-158.5	153.5	528.6	516.0	12.62	41.903		
3,100.0	3,059.0	3,054.3	3,042.0	9.6	7.0	-155.63	-167.1	157.2	549.1	536.0	13.07	42.011		
3,200.0	3,157.2	3,152.2	3,139.5	10.0	7.3	-155.51	-175.7	160.9	569.6	556.1	13.53	42.110		
3,300.0	3,255.4	3,250.1	3,236.9	10.4	7.5	-155.39	-184.3	164.6	590.1	576.1	13.98	42.202		
3,400.0	3,353.5	3,348.0	3,334.3	10.8	7.7	-155.29	-192.9	168.3	610.5	596.1	14.44	42.287		
3,500.0	3,451.7	3,445.8	3,431.7	11.1	8.0	-155.19	-201.6	172.1	631.0	616.1	14.89	42.367		
3,600.0	3,549.9	3,543.7	3,529.2	11.5	8.2	-155.10	-210.2	175.8	651.5	636.1	15.35	42.441		
3,700.0	3,648.0	3,641.6	3,626.6	11.9	8.5	-155.01	-218.8	179.5	672.0	656.2	15.81	42.511		
3,800.0	3,746.2	3,739.5	3,724.0	12.3	8.7	-154.93	-227.4	183.2	692.4	676.2	16.26	42.576		
3,900.0	3,844.4	3,837.4	3,821.4	12.7	8.9	-154.85	-236.0	187.0	712.9	696.2	16.72	42.638		
4,000.0	3,942.5	3,935.2	3,918.9	13.0	9.2	-154.78	-244.6	190.7	733.4	716.2	17.18	42.695		
4,100.0	4,040.7	4,033.1	4,016.3	13.4	9.4	-154.71	-253.3	194.4	753.9	736.3	17.63	42.750		
4,200.0	4,138.9	4,131.0	4,113.7	13.8	9.6	-154.64	-261.9	198.1	774.4	756.3	18.09	42.801		
4,300.0	4,237.0	4,228.9	4,211.1	14.2	9.9	-154.58	-270.5	201.8	794.9	776.3	18.55	42.850		
4,400.0	4,335.2	4,326.7	4,308.6	14.6	10.1	-154.52	-279.1	205.6	815.3	796.3	19.01	42.896		
4,500.0	4,433.4	4,424.6	4,406.0	14.9	10.3	-154.46	-287.7	209.3	835.8	816.4	19.47	42.940		
4,600.0	4,531.5	4,522.5	4,503.4	15.3	10.6	-154.41	-296.3	213.0	856.3	836.4	19.92	42.982		
4,700.0	4,629.7	4,620.4	4,600.8	15.7	10.8	-154.36	-305.0	216.7	876.8	856.4	20.38	43.021		
4,800.0	4,727.9	4,718.2	4,698.2	16.1	11.1	-154.31	-313.6	220.5	897.3	876.5	20.84	43.059		
4,900.0	4,826.0	4,816.1	4,795.7	16.4	11.3	-154.26	-322.2	224.2	917.8	896.5	21.30	43.095		
5,000.0	4,924.2	4,914.0	4,893.1	16.8	11.5	-154.22	-330.8	227.9	938.3	916.5	21.76	43.129		

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 6-34D
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 6-34D	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 6-19D - 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						
5,100.0	5,022.4	5,011.9	4,990.5	17.2	11.8	-154.18	-339.4	231.6	958.8	936.6	22.21	43.162							
5,200.0	5,120.5	5,109.7	5,087.9	17.6	12.0	-154.14	-348.1	235.3	979.3	956.6	22.67	43.193							
5,300.0	5,218.7	5,207.6	5,185.4	18.0	12.2	-154.10	-356.7	239.1	999.8	976.6	23.13	43.223							
5,400.0	5,316.9	5,305.5	5,282.8	18.3	12.5	-154.06	-365.3	242.8	1,020.2	996.7	23.59	43.252							
5,500.0	5,415.0	5,403.4	5,380.2	18.7	12.7	-154.02	-373.9	246.5	1,040.7	1,016.7	24.05	43.279							
5,600.0	5,513.2	5,501.2	5,477.6	19.1	12.9	-153.99	-382.5	250.2	1,061.2	1,036.7	24.51	43.305							
5,700.0	5,611.4	5,599.1	5,575.1	19.5	13.2	-153.95	-391.1	254.0	1,081.7	1,056.8	24.96	43.331							
5,800.0	5,709.5	5,697.0	5,672.5	19.9	13.4	-153.92	-399.8	257.7	1,102.2	1,076.8	25.42	43.355							
5,900.0	5,807.7	5,794.9	5,769.9	20.2	13.7	-153.89	-408.4	261.4	1,122.7	1,096.8	25.88	43.379							
6,000.0	5,905.9	5,892.7	5,867.3	20.6	13.9	-153.86	-417.0	265.1	1,143.2	1,116.9	26.34	43.401							
6,100.0	6,004.0	5,990.6	5,964.8	21.0	14.1	-153.83	-425.6	268.9	1,163.7	1,136.9	26.80	43.423							
6,200.0	6,102.2	6,088.5	6,062.2	21.4	14.4	-153.81	-434.2	272.6	1,184.2	1,156.9	27.26	43.444							
6,300.0	6,200.4	6,186.4	6,159.6	21.8	14.6	-153.78	-442.8	276.3	1,204.7	1,177.0	27.72	43.464							

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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				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	36.77	84.1	62.9	105.0					
100.0	100.0	100.0	100.0	0.1	0.1	36.77	84.1	62.9	105.0	104.8	0.27	385.787		
200.0	200.0	200.0	200.0	0.3	0.3	36.77	84.1	62.9	105.0	104.4	0.62	169.053		
300.0	300.0	300.0	300.0	0.5	0.5	36.77	84.1	62.9	105.0	104.1	0.97	108.243		
400.0	400.0	400.0	400.0	0.7	0.7	36.77	84.1	62.9	105.0	103.7	1.32	79.607		
500.0	500.0	500.0	500.0	0.8	0.8	36.77	84.1	62.9	105.0	103.4	1.67	62.953 CC, ES		
600.0	600.0	600.4	600.4	1.0	1.0	156.53	82.9	64.1	106.4	104.4	2.02	52.696		
700.0	699.8	700.3	700.1	1.2	1.2	160.27	79.3	67.9	110.9	108.6	2.38	46.618		
800.0	799.5	799.4	798.9	1.4	1.4	165.52	73.7	73.7	119.4	116.6	2.75	43.421		
900.0	898.7	898.0	897.1	1.6	1.6	170.43	67.9	79.7	132.1	129.0	3.12	42.368 SF		
1,000.0	997.5	996.0	994.8	1.9	1.8	174.59	62.1	85.7	149.1	145.7	3.48	42.805		
1,100.0	1,095.7	1,093.4	1,091.8	2.3	2.0	177.95	56.4	91.7	169.8	165.9	3.85	44.063		
1,200.0	1,193.9	1,190.7	1,188.8	2.6	2.2	-179.41	50.7	97.6	191.3	187.0	4.23	45.216		
1,300.0	1,292.0	1,288.0	1,285.8	2.9	2.4	-177.31	45.0	103.5	213.0	208.4	4.61	46.226		
1,400.0	1,390.2	1,385.4	1,382.8	3.3	2.7	-175.59	39.2	109.5	235.1	230.1	4.99	47.102		
1,500.0	1,488.4	1,482.7	1,479.7	3.7	2.9	-174.17	33.5	115.4	257.3	251.9	5.38	47.861		
1,600.0	1,586.5	1,580.0	1,576.7	4.0	3.1	-172.97	27.8	121.3	279.6	273.8	5.76	48.520		
1,700.0	1,684.7	1,677.3	1,673.7	4.4	3.3	-171.95	22.1	127.3	302.0	295.8	6.15	49.093		
1,800.0	1,782.9	1,774.7	1,770.7	4.8	3.5	-171.07	16.4	133.2	324.5	317.9	6.54	49.594		
1,900.0	1,881.0	1,872.0	1,867.6	5.1	3.8	-170.31	10.6	139.1	347.0	340.1	6.94	50.035		
2,000.0	1,979.2	1,969.3	1,964.6	5.5	4.0	-169.64	4.9	145.1	369.6	362.3	7.33	50.423		
2,100.0	2,077.4	2,066.6	2,061.6	5.9	4.2	-169.04	-0.8	151.0	392.3	384.6	7.73	50.768		
2,200.0	2,175.5	2,164.0	2,158.6	6.3	4.4	-168.51	-6.5	156.9	415.0	406.8	8.12	51.075		
2,300.0	2,273.7	2,261.3	2,255.5	6.6	4.6	-168.04	-12.2	162.9	437.7	429.2	8.52	51.349		
2,400.0	2,371.9	2,358.6	2,352.5	7.0	4.9	-167.61	-18.0	168.8	460.4	451.5	8.92	51.596		
2,500.0	2,470.0	2,455.9	2,449.5	7.4	5.1	-167.22	-23.7	174.7	483.2	473.9	9.32	51.819		
2,600.0	2,568.2	2,553.3	2,546.5	7.8	5.3	-166.87	-29.4	180.7	506.0	496.2	9.73	52.022		
2,700.0	2,666.4	2,650.6	2,643.4	8.1	5.5	-166.55	-35.1	186.6	528.8	518.6	10.13	52.205		
2,800.0	2,764.5	2,747.9	2,740.4	8.5	5.7	-166.25	-40.8	192.5	551.6	541.0	10.53	52.373		
2,900.0	2,862.7	2,845.2	2,837.4	8.9	6.0	-165.98	-46.6	198.5	574.4	563.5	10.94	52.527		
3,000.0	2,960.9	2,942.6	2,934.4	9.3	6.2	-165.73	-52.3	204.4	597.2	585.9	11.34	52.668		
3,100.0	3,059.0	3,039.9	3,031.3	9.6	6.4	-165.50	-58.0	210.3	620.1	608.3	11.74	52.798		
3,200.0	3,157.2	3,137.2	3,128.3	10.0	6.6	-165.28	-63.7	216.3	642.9	630.8	12.15	52.918		
3,300.0	3,255.4	3,234.5	3,225.3	10.4	6.9	-165.08	-69.4	222.2	665.8	653.3	12.56	53.030		
3,400.0	3,353.5	3,331.9	3,322.3	10.8	7.1	-164.89	-75.2	228.1	688.7	675.7	12.96	53.133		
3,500.0	3,451.7	3,429.2	3,419.2	11.1	7.3	-164.72	-80.9	234.1	711.6	698.2	13.37	53.229		
3,600.0	3,549.9	3,526.5	3,516.2	11.5	7.5	-164.55	-86.6	240.0	734.4	720.7	13.77	53.319		
3,700.0	3,648.0	3,623.8	3,613.2	11.9	7.7	-164.40	-92.3	245.9	757.3	743.2	14.18	53.403		
3,800.0	3,746.2	3,721.2	3,710.2	12.3	8.0	-164.25	-98.0	251.9	780.2	765.6	14.59	53.482		
3,900.0	3,844.4	3,818.5	3,807.1	12.7	8.2	-164.11	-103.8	257.8	803.1	788.1	15.00	53.555		
4,000.0	3,942.5	3,915.8	3,904.1	13.0	8.4	-163.98	-109.5	263.7	826.0	810.6	15.40	53.625		
4,100.0	4,040.7	4,013.1	4,001.1	13.4	8.6	-163.86	-115.2	269.7	848.9	833.1	15.81	53.690		
4,200.0	4,138.9	4,110.5	4,098.1	13.8	8.8	-163.74	-120.9	275.6	871.8	855.6	16.22	53.751		
4,300.0	4,237.0	4,207.8	4,195.0	14.2	9.1	-163.63	-126.6	281.5	894.8	878.1	16.63	53.809		
4,400.0	4,335.2	4,305.1	4,292.0	14.6	9.3	-163.53	-132.4	287.5	917.7	900.6	17.04	53.864		
4,500.0	4,433.4	4,402.4	4,389.0	14.9	9.5	-163.43	-138.1	293.4	940.6	923.2	17.45	53.916		
4,600.0	4,531.5	4,499.8	4,486.0	15.3	9.7	-163.33	-143.8	299.4	963.5	945.7	17.85	53.966		
4,700.0	4,629.7	4,597.1	4,583.0	15.7	10.0	-163.24	-149.5	305.3	986.4	968.2	18.26	54.013		
4,800.0	4,727.9	4,694.4	4,679.9	16.1	10.2	-163.15	-155.3	311.2	1,009.4	990.7	18.67	54.057		
4,900.0	4,826.0	4,791.7	4,776.9	16.4	10.4	-163.07	-161.0	317.2	1,032.3	1,013.2	19.08	54.100		
5,000.0	4,924.2	4,889.1	4,873.9	16.8	10.6	-162.99	-166.7	323.1	1,055.2	1,035.7	19.49	54.140		
5,100.0	5,022.4	4,986.4	4,970.9	17.2	10.8	-162.92	-172.4	329.0	1,078.2	1,058.3	19.90	54.179		

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 6-34D
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 6-34D	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 +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
5,200.0	5,120.5	5,086.6	5,070.7	17.6	11.1	-162.84	-178.3	335.1	1,101.1	1,080.8	20.31	54.201					
5,300.0	5,218.7	5,211.7	5,195.6	18.0	11.3	-162.90	-183.3	340.4	1,122.6	1,101.8	20.73	54.145					
5,400.0	5,316.9	5,333.8	5,317.7	18.3	11.5	-163.16	-184.7	341.7	1,141.7	1,120.6	21.10	54.118					
5,500.0	5,415.0	5,437.0	5,420.8	18.7	11.6	-163.45	-184.8	341.5	1,159.7	1,138.2	21.43	54.120					
5,600.0	5,513.2	5,539.0	5,522.9	19.1	11.8	-163.71	-185.2	340.8	1,177.3	1,155.5	21.76	54.105					
5,700.0	5,611.4	5,637.3	5,621.2	19.5	11.9	-163.95	-185.6	340.1	1,194.8	1,172.7	22.09	54.097					
5,800.0	5,709.5	5,735.7	5,719.5	19.9	12.0	-164.19	-186.0	339.3	1,212.3	1,189.9	22.41	54.091					

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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	36.72	60.1	44.8	75.0				
100.0	100.0	100.0	100.0	0.1	0.1	36.72	60.1	44.8	75.0	74.7	0.27	275.385	
200.0	200.0	200.0	200.0	0.3	0.3	36.72	60.1	44.8	75.0	74.4	0.62	120.675	
300.0	300.0	301.8	301.7	0.5	0.5	37.75	58.3	45.2	73.8	72.8	0.97	75.779	
400.0	400.0	403.3	403.1	0.7	0.7	41.05	53.0	46.2	70.4	69.0	1.33	53.065	
500.0	500.0	504.3	503.7	0.8	0.9	47.23	44.2	47.8	65.2	63.6	1.68	38.919	
600.0	600.0	604.6	603.2	1.0	1.2	175.94	32.1	50.1	61.3	59.1	2.18	28.173	
629.1	629.1	633.5	631.9	1.1	1.3	179.62	28.0	50.9	61.0	58.7	2.31	26.392 CC, ES	
700.0	699.8	703.7	701.3	1.2	1.5	-171.59	18.1	52.7	62.7	60.0	2.65	23.688	
800.0	799.5	802.6	799.3	1.4	1.8	-161.06	4.2	55.3	70.1	67.0	3.11	22.523 SF	
900.0	898.7	901.4	897.0	1.6	2.1	-153.77	-9.7	57.9	82.6	79.0	3.58	23.071	
1,000.0	997.5	999.8	994.4	1.9	2.3	-149.41	-23.5	60.5	98.9	94.8	4.05	24.394	
1,100.0	1,095.7	1,097.9	1,091.5	2.3	2.6	-147.13	-37.3	63.1	118.1	113.6	4.55	25.947	
1,200.0	1,193.9	1,195.9	1,188.5	2.6	2.9	-145.66	-51.1	65.7	137.8	132.7	5.07	27.183	
1,300.0	1,292.0	1,293.9	1,285.4	2.9	3.2	-144.56	-64.9	68.3	157.6	152.0	5.60	28.156	
1,400.0	1,390.2	1,391.9	1,382.4	3.3	3.5	-143.70	-78.6	70.9	177.4	171.2	6.13	28.935	
1,500.0	1,488.4	1,489.8	1,479.4	3.7	3.8	-143.02	-92.4	73.5	197.2	190.5	6.67	29.571	
1,600.0	1,586.5	1,587.8	1,576.4	4.0	4.1	-142.46	-106.2	76.1	217.1	209.8	7.21	30.097	
1,700.0	1,684.7	1,685.8	1,673.4	4.4	4.4	-142.00	-120.0	78.7	236.9	229.2	7.76	30.538	
1,800.0	1,782.9	1,783.8	1,770.3	4.8	4.7	-141.60	-133.8	81.3	256.8	248.5	8.31	30.914	
1,900.0	1,881.0	1,881.8	1,867.3	5.1	5.0	-141.27	-147.5	83.9	276.7	267.8	8.86	31.236	
2,000.0	1,979.2	1,979.8	1,964.3	5.5	5.3	-140.97	-161.3	86.4	296.6	287.2	9.41	31.516	
2,100.0	2,077.4	2,077.8	2,061.3	5.9	5.6	-140.72	-175.1	89.0	316.5	306.5	9.97	31.760	
2,200.0	2,175.5	2,175.8	2,158.3	6.3	5.9	-140.49	-188.9	91.6	336.4	325.9	10.52	31.976	
2,300.0	2,273.7	2,273.8	2,255.2	6.6	6.2	-140.29	-202.7	94.2	356.3	345.2	11.08	32.167	
2,400.0	2,371.9	2,371.8	2,352.2	7.0	6.5	-140.12	-216.4	96.8	376.2	364.6	11.63	32.339	
2,500.0	2,470.0	2,469.7	2,449.2	7.4	6.8	-139.96	-230.2	99.4	396.2	384.0	12.19	32.492	
2,600.0	2,568.2	2,567.7	2,546.2	7.8	7.1	-139.81	-244.0	102.0	416.1	403.3	12.75	32.631	
2,700.0	2,666.4	2,665.7	2,643.2	8.1	7.4	-139.68	-257.8	104.6	436.0	422.7	13.31	32.757	
2,800.0	2,764.5	2,763.7	2,740.2	8.5	7.7	-139.56	-271.6	107.2	455.9	442.1	13.87	32.872	
2,900.0	2,862.7	2,861.7	2,837.1	8.9	8.0	-139.45	-285.3	109.8	475.9	461.4	14.43	32.977	
3,000.0	2,960.9	2,959.7	2,934.1	9.3	8.3	-139.35	-299.1	112.3	495.8	480.8	14.99	33.073	
3,100.0	3,059.0	3,057.7	3,031.1	9.6	8.6	-139.25	-312.9	114.9	515.7	500.2	15.55	33.162	
3,200.0	3,157.2	3,155.7	3,128.1	10.0	8.9	-139.17	-326.7	117.5	535.7	519.6	16.11	33.244	
3,300.0	3,255.4	3,253.7	3,225.1	10.4	9.2	-139.09	-340.5	120.1	555.6	538.9	16.68	33.320	
3,400.0	3,353.5	3,351.7	3,322.0	10.8	9.5	-139.01	-354.2	122.7	575.5	558.3	17.24	33.391	
3,500.0	3,451.7	3,449.6	3,419.0	11.1	9.8	-138.94	-368.0	125.3	595.5	577.7	17.80	33.456	
3,600.0	3,549.9	3,547.6	3,516.0	11.5	10.1	-138.88	-381.8	127.9	615.4	597.1	18.36	33.518	
3,700.0	3,648.0	3,645.6	3,613.0	11.9	10.4	-138.81	-395.6	130.5	635.4	616.4	18.92	33.575	
3,800.0	3,746.2	3,743.6	3,710.0	12.3	10.7	-138.76	-409.4	133.1	655.3	635.8	19.49	33.629	
3,900.0	3,844.4	3,841.6	3,807.0	12.7	11.0	-138.70	-423.1	135.7	675.2	655.2	20.05	33.680	
4,000.0	3,942.5	3,939.6	3,903.9	13.0	11.3	-138.65	-436.9	138.2	695.2	674.6	20.61	33.728	
4,100.0	4,040.7	4,037.6	4,000.9	13.4	11.6	-138.60	-450.7	140.8	715.1	694.0	21.17	33.773	
4,200.0	4,138.9	4,135.6	4,097.9	13.8	11.9	-138.56	-464.5	143.4	735.1	713.3	21.74	33.815	
4,300.0	4,237.0	4,233.6	4,194.9	14.2	12.2	-138.52	-478.3	146.0	755.0	732.7	22.30	33.856	
4,400.0	4,335.2	4,331.6	4,291.9	14.6	12.5	-138.47	-492.1	148.6	775.0	752.1	22.86	33.894	
4,500.0	4,433.4	4,429.5	4,388.8	14.9	12.8	-138.44	-505.8	151.2	794.9	771.5	23.43	33.930	
4,600.0	4,531.5	4,527.5	4,485.8	15.3	13.1	-138.40	-519.6	153.8	814.8	790.9	23.99	33.964	
4,700.0	4,629.7	4,625.5	4,582.8	15.7	13.4	-138.36	-533.4	156.4	834.8	810.2	24.55	33.997	
4,800.0	4,727.9	4,723.5	4,679.8	16.1	13.7	-138.33	-547.2	159.0	854.7	829.6	25.12	34.028	
4,900.0	4,826.0	4,821.5	4,776.8	16.4	13.9	-138.30	-561.0	161.6	874.7	849.0	25.68	34.058	
5,000.0	4,924.2	4,919.5	4,873.7	16.8	14.2	-138.27	-574.7	164.1	894.6	868.4	26.25	34.086	

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 6-34D
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 6-34D	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 6-21D - 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	5,022.4	5,017.5	4,970.7	17.2	14.5	-138.24	-588.5	166.7	914.6	887.8	26.81	34.113		
5,200.0	5,120.5	5,115.5	5,067.7	17.6	14.8	-138.21	-602.3	169.3	934.5	907.1	27.37	34.139		
5,300.0	5,218.7	5,213.5	5,164.7	18.0	15.1	-138.18	-616.1	171.9	954.5	926.5	27.94	34.164		
5,400.0	5,316.9	5,311.5	5,261.7	18.3	15.4	-138.16	-629.9	174.5	974.4	945.9	28.50	34.188		
5,500.0	5,415.0	5,409.4	5,358.7	18.7	15.7	-138.13	-643.6	177.1	994.3	965.3	29.07	34.211		
5,600.0	5,513.2	5,507.4	5,455.6	19.1	16.0	-138.11	-657.4	179.7	1,014.3	984.7	29.63	34.232		
5,700.0	5,611.4	5,605.4	5,552.6	19.5	16.3	-138.09	-671.2	182.3	1,034.2	1,004.0	30.19	34.253		
5,800.0	5,709.5	5,703.4	5,649.6	19.9	16.6	-138.06	-685.0	184.9	1,054.2	1,023.4	30.76	34.274		
5,900.0	5,807.7	5,801.4	5,746.6	20.2	16.9	-138.04	-698.8	187.5	1,074.1	1,042.8	31.32	34.293		
6,000.0	5,905.9	5,899.4	5,843.6	20.6	17.2	-138.02	-712.5	190.0	1,094.1	1,062.2	31.89	34.312		
6,100.0	6,004.0	5,997.4	5,940.5	21.0	17.5	-138.00	-726.3	192.6	1,114.0	1,081.6	32.45	34.330		
6,200.0	6,102.2	6,095.4	6,037.5	21.4	17.8	-137.98	-740.1	195.2	1,134.0	1,101.0	33.01	34.347		
6,300.0	6,200.4	6,193.4	6,134.5	21.8	18.1	-137.97	-753.9	197.8	1,153.9	1,120.3	33.58	34.364		
6,400.0	6,298.5	6,291.3	6,231.5	22.1	18.4	-137.95	-767.7	200.4	1,173.9	1,139.7	34.14	34.380		
6,500.0	6,396.7	6,389.3	6,328.5	22.5	18.7	-137.93	-781.4	203.0	1,193.8	1,159.1	34.71	34.396		
6,600.0	6,494.9	6,487.3	6,425.4	22.9	19.0	-137.91	-795.2	205.6	1,213.8	1,178.5	35.27	34.411		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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					
0.0	0.0	0.0	0.0	0.0	0.0	36.57	96.5	71.6	120.2								
100.0	100.0	100.0	100.0	0.1	0.1	36.57	96.5	71.6	120.2	119.9	0.27	441.443					
200.0	200.0	200.0	200.0	0.3	0.3	36.57	96.5	71.6	120.2	119.6	0.62	193.441					
300.0	300.0	300.0	300.0	0.5	0.5	36.57	96.5	71.6	120.2	119.2	0.97	123.858					
400.0	400.0	400.0	400.0	0.7	0.7	36.57	96.5	71.6	120.2	118.9	1.32	91.091					
500.0	500.0	500.0	500.0	0.8	0.8	36.57	96.5	71.6	120.2	118.5	1.67	72.035 CC, ES					
600.0	600.0	600.0	600.0	1.0	1.0	155.35	96.5	71.6	121.8	119.8	2.02	60.368					
700.0	699.8	699.8	699.8	1.2	1.2	156.30	96.5	71.6	126.6	124.2	2.37	53.492					
800.0	799.5	799.5	799.5	1.4	1.4	157.73	96.5	71.6	134.6	131.9	2.71	49.575					
900.0	898.7	898.7	898.7	1.6	1.5	159.46	96.5	71.6	145.9	142.9	3.06	47.639					
1,000.0	997.5	997.5	997.5	1.9	1.7	161.32	96.5	71.6	160.7	157.3	3.41	47.119 SF					
1,100.0	1,095.7	1,091.2	1,091.2	2.3	1.9	163.39	96.7	73.1	179.7	175.9	3.75	47.907					
1,200.0	1,193.9	1,183.5	1,183.3	2.6	2.0	165.65	97.3	77.4	201.9	197.8	4.09	49.354					
1,300.0	1,292.0	1,274.3	1,273.8	2.9	2.2	167.87	98.1	84.6	226.9	222.5	4.42	51.280					
1,400.0	1,390.2	1,368.5	1,367.6	3.3	2.4	169.99	99.3	94.2	254.1	249.4	4.76	53.353					
1,500.0	1,488.4	1,464.3	1,462.9	3.7	2.6	171.75	100.6	104.1	281.7	276.6	5.10	55.193					
1,600.0	1,586.5	1,560.1	1,558.2	4.0	2.8	173.19	101.8	113.9	309.5	304.0	5.44	56.836					
1,700.0	1,684.7	1,655.9	1,653.5	4.4	3.0	174.39	103.0	123.8	337.4	331.6	5.79	58.308					
1,800.0	1,782.9	1,751.7	1,748.7	4.8	3.2	175.42	104.2	133.6	365.4	359.3	6.13	59.632					
1,900.0	1,881.0	1,847.5	1,844.0	5.1	3.5	176.29	105.5	143.5	393.6	387.1	6.47	60.826					
2,000.0	1,979.2	1,943.3	1,939.3	5.5	3.7	177.05	106.7	153.3	421.8	414.9	6.81	61.908					
2,100.0	2,077.4	2,039.1	2,034.6	5.9	3.9	177.72	107.9	163.2	450.0	442.9	7.16	62.891					
2,200.0	2,175.5	2,134.9	2,129.9	6.3	4.1	178.30	109.2	173.0	478.3	470.8	7.50	63.789					
2,300.0	2,273.7	2,230.7	2,225.2	6.6	4.4	178.82	110.4	182.9	506.7	498.9	7.84	64.610					
2,400.0	2,371.9	2,326.5	2,320.5	7.0	4.6	179.29	111.6	192.7	535.1	526.9	8.19	65.364					
2,500.0	2,470.0	2,422.3	2,415.7	7.4	4.8	179.71	112.8	202.6	563.5	555.0	8.53	66.059					
2,600.0	2,568.2	2,518.1	2,511.0	7.8	5.1	-179.91	114.1	212.4	592.0	583.1	8.87	66.700					
2,700.0	2,666.4	2,613.9	2,606.3	8.1	5.3	-179.57	115.3	222.2	620.4	611.2	9.22	67.295					
2,800.0	2,764.5	2,709.7	2,701.6	8.5	5.5	-179.26	116.5	232.1	648.9	639.3	9.56	67.847					
2,900.0	2,862.7	2,805.5	2,796.9	8.9	5.8	-178.97	117.7	241.9	677.4	667.5	9.91	68.360					
3,000.0	2,960.9	2,901.3	2,892.2	9.3	6.0	-178.70	119.0	251.8	705.9	695.7	10.25	68.840					
3,100.0	3,059.0	2,997.1	2,987.4	9.6	6.2	-178.46	120.2	261.6	734.5	723.9	10.60	69.288					
3,200.0	3,157.2	3,092.9	3,082.7	10.0	6.5	-178.23	121.4	271.5	763.0	752.1	10.95	69.708					
3,300.0	3,255.4	3,197.5	3,186.8	10.4	6.7	-178.01	122.7	282.0	791.4	780.1	11.31	69.996					
3,400.0	3,353.5	3,329.1	3,318.0	10.8	7.0	-177.86	123.8	291.0	816.8	805.1	11.71	69.763					
3,500.0	3,451.7	3,462.9	3,451.8	11.1	7.2	-177.85	124.2	294.1	838.0	825.9	12.11	69.194					
3,600.0	3,549.9	3,564.8	3,553.7	11.5	7.3	-177.90	124.1	293.9	856.8	844.3	12.46	68.771					
3,700.0	3,648.0	3,664.5	3,653.4	11.9	7.5	-177.95	123.8	293.4	875.3	862.5	12.80	68.363					
3,800.0	3,746.2	3,762.8	3,751.7	12.3	7.6	-177.99	123.5	292.8	893.7	880.6	13.15	67.986					
3,900.0	3,844.4	3,861.1	3,850.0	12.7	7.8	-178.03	123.2	292.3	912.2	898.7	13.49	67.628					
4,000.0	3,942.5	3,959.3	3,948.2	13.0	7.9	-178.06	122.9	291.8	930.6	916.8	13.83	67.287					
4,100.0	4,040.7	4,057.6	4,046.5	13.4	8.0	-178.10	122.6	291.3	949.1	934.9	14.17	66.962					
4,200.0	4,138.9	4,155.9	4,144.8	13.8	8.2	-178.14	122.3	290.8	967.5	953.0	14.52	66.652					
4,300.0	4,237.0	4,254.2	4,243.1	14.2	8.3	-178.17	122.0	290.2	986.0	971.1	14.86	66.356					
4,400.0	4,335.2	4,352.5	4,341.3	14.6	8.5	-178.20	121.7	289.7	1,004.4	989.2	15.20	66.073					
4,500.0	4,433.4	4,450.8	4,439.6	14.9	8.6	-178.23	121.4	289.2	1,022.9	1,007.3	15.54	65.802					
4,600.0	4,531.5	4,549.0	4,537.9	15.3	8.8	-178.26	121.1	288.7	1,041.3	1,025.4	15.89	65.543					
4,700.0	4,629.7	4,647.3	4,636.2	15.7	8.9	-178.29	120.8	288.1	1,059.8	1,043.5	16.23	65.295					
4,800.0	4,727.9	4,745.6	4,734.5	16.1	9.1	-178.32	120.5	287.6	1,078.2	1,061.7	16.57	65.056					
4,900.0	4,826.0	4,843.9	4,832.7	16.4	9.2	-178.35	120.2	287.1	1,096.7	1,079.8	16.92	64.827					
5,000.0	4,924.2	4,942.2	4,931.0	16.8	9.4	-178.38	119.9	286.6	1,115.1	1,097.9	17.26	64.607					
5,100.0	5,022.4	5,040.4	5,029.3	17.2	9.5	-178.40	119.6	286.1	1,133.6	1,116.0	17.60	64.395					

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 6-34D
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 6-34D	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis					
5,200.0	5,120.5	5,138.7	5,127.6	17.6	9.7	-178.43	119.3	285.5	1,152.0	1,134.1	17.95	64.192				
5,300.0	5,218.7	5,237.0	5,225.9	18.0	9.9	-178.45	119.0	285.0	1,170.5	1,152.2	18.29	63.995				
5,400.0	5,316.9	5,335.3	5,324.1	18.3	10.0	-178.47	118.7	284.5	1,189.0	1,170.3	18.63	63.806				
5,500.0	5,415.0	5,433.6	5,422.4	18.7	10.2	-178.50	118.4	284.0	1,207.4	1,188.4	18.98	63.624				

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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									
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			
0.0	0.0	0.0	0.0	0.0	0.0	36.72	119.5	89.1	149.0							
100.0	100.0	100.0	100.0	0.1	0.1	36.72	119.5	89.1	149.0	148.8	0.27	547.375				
200.0	200.0	200.0	200.0	0.3	0.3	36.72	119.5	89.1	149.0	148.4	0.62	239.861	CC, ES			
300.0	300.0	295.1	295.1	0.5	0.5	36.83	120.5	90.3	150.7	149.7	0.97	156.109				
400.0	400.0	390.0	389.9	0.7	0.7	37.16	123.7	93.8	155.6	154.2	1.32	117.555				
500.0	500.0	489.0	488.6	0.8	0.9	37.62	128.4	99.0	162.5	160.8	1.70	95.793				
600.0	600.0	588.6	587.9	1.0	1.1	156.65	133.2	104.2	171.1	169.1	2.00	85.615				
700.0	699.8	687.8	686.9	1.2	1.3	157.58	137.9	109.5	183.0	180.7	2.35	78.025				
800.0	799.5	786.6	785.4	1.4	1.5	158.73	142.7	114.7	198.1	195.4	2.69	73.636				
900.0	898.7	884.7	883.3	1.6	1.7	160.01	147.4	119.9	216.5	213.5	3.03	71.366				
1,000.0	997.5	982.2	980.5	1.9	1.9	161.33	152.1	125.0	238.3	235.0	3.38	70.587	SF			
1,100.0	1,095.7	1,078.9	1,077.0	2.3	2.1	162.68	156.7	130.1	263.1	259.3	3.72	70.685				
1,200.0	1,193.9	1,175.5	1,173.3	2.6	2.3	163.88	161.3	135.2	288.3	284.2	4.07	70.809				
1,300.0	1,292.0	1,272.1	1,269.7	2.9	2.5	164.89	165.9	140.3	313.7	309.2	4.42	70.953				
1,400.0	1,390.2	1,368.7	1,366.0	3.3	2.7	165.75	170.6	145.4	339.1	334.3	4.77	71.107				
1,500.0	1,488.4	1,465.3	1,462.4	3.7	2.9	166.49	175.2	150.5	364.6	359.5	5.12	71.264				
1,600.0	1,586.5	1,561.8	1,558.7	4.0	3.1	167.13	179.8	155.6	390.1	384.7	5.46	71.419				
1,700.0	1,684.7	1,658.4	1,655.1	4.4	3.4	167.69	184.5	160.7	415.7	409.9	5.81	71.571				
1,800.0	1,782.9	1,755.0	1,751.4	4.8	3.6	168.19	189.1	165.8	441.3	435.2	6.15	71.716				
1,900.0	1,881.0	1,851.6	1,847.8	5.1	3.8	168.64	193.7	170.9	467.0	460.5	6.50	71.855				
2,000.0	1,979.2	1,948.2	1,944.1	5.5	4.0	169.03	198.3	176.0	492.6	485.8	6.84	71.987				
2,100.0	2,077.4	2,044.8	2,040.5	5.9	4.2	169.39	203.0	181.1	518.3	511.1	7.19	72.112				
2,200.0	2,175.5	2,141.4	2,136.8	6.3	4.4	169.72	207.6	186.2	544.0	536.5	7.53	72.230				
2,300.0	2,273.7	2,238.0	2,233.2	6.6	4.6	170.01	212.2	191.3	569.7	561.9	7.88	72.342				
2,400.0	2,371.9	2,334.6	2,329.5	7.0	4.8	170.28	216.9	196.4	595.5	587.3	8.22	72.447				
2,500.0	2,470.0	2,431.2	2,425.9	7.4	5.0	170.53	221.5	201.5	621.2	612.7	8.56	72.546				
2,600.0	2,568.2	2,527.8	2,522.2	7.8	5.2	170.76	226.1	206.6	647.0	638.1	8.91	72.640				
2,700.0	2,666.4	2,624.4	2,618.6	8.1	5.4	170.97	230.7	211.7	672.7	663.5	9.25	72.728				
2,800.0	2,764.5	2,721.0	2,714.9	8.5	5.6	171.16	235.4	216.8	698.5	688.9	9.59	72.812				
2,900.0	2,862.7	2,817.6	2,811.3	8.9	5.8	171.34	240.0	221.9	724.3	714.4	9.94	72.891				
3,000.0	2,960.9	2,914.2	2,907.6	9.3	6.0	171.51	244.6	227.0	750.1	739.8	10.28	72.966				
3,100.0	3,059.0	3,010.8	3,004.0	9.6	6.2	171.67	249.3	232.1	775.9	765.2	10.62	73.037				
3,200.0	3,157.2	3,107.4	3,100.3	10.0	6.5	171.82	253.9	237.2	801.7	790.7	10.97	73.104				
3,300.0	3,255.4	3,204.0	3,196.7	10.4	6.7	171.95	258.5	242.3	827.5	816.1	11.31	73.168				
3,400.0	3,353.5	3,300.6	3,293.0	10.8	6.9	172.08	263.1	247.4	853.3	841.6	11.65	73.229				
3,500.0	3,451.7	3,397.2	3,389.4	11.1	7.1	172.21	267.8	252.5	879.1	867.1	11.99	73.286				
3,600.0	3,549.9	3,493.8	3,485.7	11.5	7.3	172.32	272.4	257.6	904.9	892.5	12.34	73.341				
3,700.0	3,648.0	3,590.4	3,582.1	11.9	7.5	172.43	277.0	262.7	930.7	918.0	12.68	73.394				
3,800.0	3,746.2	3,687.0	3,678.4	12.3	7.7	172.53	281.7	267.8	956.5	943.5	13.02	73.443				
3,900.0	3,844.4	3,783.6	3,774.8	12.7	7.9	172.63	286.3	272.9	982.3	969.0	13.37	73.491				
4,000.0	3,942.5	3,880.2	3,871.1	13.0	8.1	172.72	290.9	278.1	1,008.1	994.4	13.71	73.537				
4,100.0	4,040.7	3,976.8	3,967.5	13.4	8.3	172.81	295.5	283.2	1,034.0	1,019.9	14.05	73.580				
4,200.0	4,138.9	4,073.4	4,063.8	13.8	8.5	172.89	300.2	288.3	1,059.8	1,045.4	14.40	73.622				
4,300.0	4,237.0	4,169.9	4,160.2	14.2	8.7	172.97	304.8	293.4	1,085.6	1,070.9	14.74	73.662				
4,400.0	4,335.2	4,266.5	4,256.5	14.6	8.9	173.05	309.4	298.5	1,111.5	1,096.4	15.08	73.700				
4,500.0	4,433.4	4,363.1	4,352.9	14.9	9.1	173.12	314.1	303.6	1,137.3	1,121.9	15.42	73.737				
4,600.0	4,531.5	4,459.7	4,449.2	15.3	9.4	173.19	318.7	308.7	1,163.1	1,147.4	15.77	73.772				
4,700.0	4,629.7	4,556.3	4,545.6	15.7	9.6	173.26	323.3	313.8	1,189.0	1,172.8	16.11	73.806				
4,800.0	4,727.9	4,652.9	4,641.9	16.1	9.8	173.32	327.9	318.9	1,214.8	1,198.3	16.45	73.839				

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 6-34D
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 6-34D	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		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	36.70	107.4	80.1	134.0					
100.0	100.0	98.7	98.7	0.1	0.1	36.68	107.9	80.3	134.5	134.2	0.28	476.786		
200.0	200.0	196.7	196.7	0.3	0.3	36.59	109.3	81.1	136.1	135.5	0.62	219.772		
300.0	300.0	294.1	294.1	0.5	0.5	36.16	112.5	82.2	139.4	138.5	0.97	143.786		
400.0	400.0	389.5	389.2	0.7	0.7	35.12	118.3	83.3	145.1	143.8	1.33	109.462		
500.0	500.0	484.3	483.5	0.8	0.9	33.65	127.6	85.0	154.2	152.5	1.70	90.959		
600.0	600.0	582.7	581.1	1.0	1.2	150.29	139.9	86.3	167.0	165.0	2.02	82.646		
700.0	699.8	680.6	678.2	1.2	1.5	148.52	153.4	85.8	183.0	180.6	2.39	76.457		
800.0	799.5	777.0	773.5	1.4	1.8	147.36	167.3	85.0	202.4	199.6	2.76	73.239		
900.0	898.7	872.9	868.4	1.6	2.0	147.21	181.0	85.9	225.5	222.3	3.13	71.921		
1,000.0	997.5	969.4	963.9	1.9	2.3	147.52	195.0	87.3	251.8	248.3	3.53	71.400		
1,100.0	1,095.7	1,061.9	1,055.3	2.3	2.6	148.17	208.9	88.9	281.3	277.3	3.92	71.691		
1,200.0	1,193.9	1,156.0	1,148.2	2.6	2.9	148.83	223.8	90.7	311.9	307.5	4.34	71.786		
1,300.0	1,292.0	1,252.0	1,243.0	2.9	3.2	149.37	239.1	92.5	342.6	337.8	4.76	71.905		
1,400.0	1,390.2	1,353.3	1,343.2	3.3	3.6	149.92	254.1	94.2	372.2	367.0	5.20	71.599		
1,500.0	1,488.4	1,448.4	1,437.3	3.7	3.8	150.39	267.5	95.6	401.3	395.6	5.62	71.430		
1,600.0	1,586.5	1,543.7	1,531.6	4.0	4.1	150.87	280.8	97.6	430.5	424.4	6.04	71.322		
1,700.0	1,684.7	1,642.3	1,629.3	4.4	4.4	151.27	294.4	99.2	459.4	452.9	6.46	71.070		
1,800.0	1,782.9	1,741.4	1,727.5	4.8	4.7	151.61	307.5	100.4	487.6	480.7	6.89	70.744		
1,900.0	1,881.0	1,837.4	1,822.7	5.1	5.0	151.94	319.8	101.6	515.6	508.3	7.31	70.515		
2,000.0	1,979.2	1,933.5	1,918.1	5.5	5.2	152.28	331.9	103.1	543.5	535.8	7.73	70.344		
2,100.0	2,077.4	2,027.1	2,010.9	5.9	5.5	152.66	343.4	105.3	571.7	563.6	8.13	70.321		
2,200.0	2,175.5	2,122.5	2,105.6	6.3	5.8	153.02	355.3	107.8	600.2	591.7	8.54	70.297		
2,300.0	2,273.7	2,221.9	2,204.1	6.6	6.0	153.34	367.5	110.1	628.4	619.4	8.95	70.174		
2,400.0	2,371.9	2,317.8	2,299.3	7.0	6.3	153.61	379.1	111.9	656.2	646.8	9.37	70.064		
2,500.0	2,470.0	2,406.2	2,386.9	7.4	6.6	153.84	390.3	114.1	684.7	675.0	9.76	70.146		
2,600.0	2,568.2	2,497.2	2,477.1	7.8	6.8	154.00	402.9	116.1	714.1	703.9	10.17	70.185		
2,700.0	2,666.4	2,583.0	2,561.9	8.1	7.1	154.06	415.9	117.8	744.4	733.8	10.58	70.352		
2,800.0	2,764.5	2,682.4	2,660.0	8.5	7.4	154.13	431.4	120.0	775.1	764.1	11.01	70.390		
2,900.0	2,862.7	2,782.3	2,758.8	8.9	7.8	154.19	446.5	121.7	805.2	793.7	11.45	70.317		
3,000.0	2,960.9	2,878.5	2,853.9	9.3	8.1	154.19	461.2	122.6	835.0	823.1	11.89	70.229		
3,100.0	3,059.0	2,977.3	2,951.4	9.6	8.4	154.15	476.5	123.1	864.6	852.3	12.34	70.093		
3,200.0	3,157.2	3,080.6	3,053.7	10.0	8.7	154.14	491.4	123.3	893.3	880.5	12.79	69.864 SF		
3,300.0	3,255.4	3,162.2	3,134.4	10.4	8.9	154.17	503.3	124.1	922.5	909.4	13.19	69.965		
3,400.0	3,353.5	3,246.0	3,217.1	10.8	9.2	154.22	516.6	126.3	953.7	940.1	13.58	70.212		
3,500.0	3,451.7	3,343.1	3,312.9	11.1	9.5	154.31	532.1	129.5	985.4	971.4	14.00	70.365		
3,600.0	3,549.9	3,453.3	3,421.8	11.5	9.9	154.37	548.4	131.6	1,015.3	1,000.8	14.46	70.191		
3,700.0	3,648.0	3,531.0	3,498.6	11.9	10.2	154.38	560.7	132.9	1,045.8	1,030.9	14.86	70.377		
3,800.0	3,746.2	3,625.0	3,591.3	12.3	10.5	154.40	575.7	135.0	1,076.9	1,061.6	15.28	70.470		
3,900.0	3,844.4	3,704.4	3,669.6	12.7	10.7	154.42	588.7	137.0	1,108.5	1,092.8	15.68	70.698		
4,000.0	3,942.5	3,775.3	3,739.3	13.0	11.0	154.41	601.8	139.4	1,142.1	1,126.0	16.06	71.109		
4,100.0	4,040.7	3,862.1	3,824.2	13.4	11.4	154.40	619.2	143.0	1,177.3	1,160.9	16.48	71.436		
4,200.0	4,138.9	3,963.9	3,923.9	13.8	11.8	154.33	639.6	146.2	1,212.0	1,195.1	16.95	71.517		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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	-143.54	-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	298.9	298.9	0.5	0.5	-143.35	-25.4	-18.9	31.6	30.6	0.97	32.538	
400.0	400.0	397.6	397.5	0.7	0.7	-142.90	-29.3	-22.1	36.8	35.4	1.34	27.549	
500.0	500.0	495.9	495.3	0.8	0.9	-142.38	-35.7	-27.6	45.4	43.7	1.72	26.357	
600.0	600.0	593.6	592.3	1.0	1.2	-24.09	-44.7	-35.1	55.8	53.8	2.01	27.790	
700.0	699.8	690.9	688.5	1.2	1.5	-25.25	-56.2	-44.7	66.4	64.1	2.35	28.209	
800.0	799.5	787.9	783.8	1.4	1.8	-26.97	-70.2	-56.3	77.3	74.6	2.71	28.553	
900.0	898.7	884.8	878.3	1.6	2.2	-29.04	-86.5	-70.0	88.6	85.5	3.08	28.774	
1,000.0	997.5	984.2	975.0	1.9	2.6	-31.58	-104.3	-84.8	98.2	94.8	3.49	28.179	
1,100.0	1,095.7	1,083.8	1,071.8	2.3	3.1	-34.63	-122.0	-99.7	105.5	101.6	3.94	26.760	
1,200.0	1,193.9	1,183.4	1,168.7	2.6	3.5	-37.44	-139.8	-114.6	112.8	108.3	4.45	25.365	
1,300.0	1,292.0	1,283.0	1,265.6	2.9	3.9	-39.91	-157.6	-129.4	120.3	115.3	4.98	24.127	
1,400.0	1,390.2	1,382.6	1,362.4	3.3	4.4	-42.09	-175.4	-144.3	127.9	122.4	5.55	23.037	
1,500.0	1,488.4	1,482.2	1,459.3	3.7	4.8	-44.01	-193.1	-159.1	135.8	129.6	6.15	22.084	
1,600.0	1,586.5	1,581.8	1,556.1	4.0	5.2	-45.73	-210.9	-174.0	143.7	137.0	6.76	21.253	
1,700.0	1,684.7	1,681.4	1,653.0	4.4	5.7	-47.27	-228.7	-188.9	151.8	144.4	7.40	20.527	
1,800.0	1,782.9	1,781.0	1,749.9	4.8	6.1	-48.64	-246.5	-203.7	160.0	152.0	8.04	19.892	
1,900.0	1,881.0	1,880.5	1,846.7	5.1	6.6	-49.89	-264.3	-218.6	168.3	159.6	8.70	19.335	
2,000.0	1,979.2	1,980.1	1,943.6	5.5	7.0	-51.02	-282.0	-233.5	176.6	167.2	9.37	18.844	
2,100.0	2,077.4	2,079.7	2,040.5	5.9	7.5	-52.04	-299.8	-248.3	185.0	175.0	10.05	18.410	
2,200.0	2,175.5	2,179.3	2,137.3	6.3	7.9	-52.98	-317.6	-263.2	193.5	182.7	10.73	18.025	
2,300.0	2,273.7	2,278.9	2,234.2	6.6	8.3	-53.84	-335.4	-278.0	202.0	190.5	11.42	17.681	
2,400.0	2,371.9	2,378.5	2,331.0	7.0	8.8	-54.63	-353.1	-292.9	210.5	198.4	12.12	17.373	
2,500.0	2,470.0	2,478.1	2,427.9	7.4	9.2	-55.35	-370.9	-307.8	219.1	206.3	12.82	17.095	
2,600.0	2,568.2	2,577.7	2,524.8	7.8	9.7	-56.02	-388.7	-322.6	227.7	214.2	13.52	16.844	
2,700.0	2,666.4	2,677.3	2,621.6	8.1	10.1	-56.65	-406.5	-337.5	236.3	222.1	14.22	16.617	
2,800.0	2,764.5	2,776.9	2,718.5	8.5	10.6	-57.23	-424.2	-352.4	245.0	230.1	14.93	16.410	
2,900.0	2,862.7	2,876.5	2,815.3	8.9	11.0	-57.77	-442.0	-367.2	253.7	238.1	15.64	16.221	
3,000.0	2,960.9	2,976.1	2,912.2	9.3	11.4	-58.27	-459.8	-382.1	262.4	246.1	16.35	16.048	
3,100.0	3,059.0	3,075.7	3,009.1	9.6	11.9	-58.74	-477.6	-396.9	271.1	254.1	17.07	15.888	
3,200.0	3,157.2	3,175.3	3,105.9	10.0	12.3	-59.18	-495.4	-411.8	279.9	262.1	17.78	15.742	
3,300.0	3,255.4	3,274.9	3,202.8	10.4	12.8	-59.60	-513.1	-426.7	288.6	270.2	18.50	15.606	
3,400.0	3,353.5	3,374.5	3,299.6	10.8	13.2	-59.99	-530.9	-441.5	297.4	278.2	19.21	15.480	
3,500.0	3,451.7	3,474.1	3,396.5	11.1	13.7	-60.36	-548.7	-456.4	306.2	286.3	19.93	15.363	
3,600.0	3,549.9	3,573.7	3,493.4	11.5	14.1	-60.71	-566.5	-471.3	315.0	294.4	20.65	15.254	
3,700.0	3,648.0	3,673.2	3,590.2	11.9	14.5	-61.03	-584.2	-486.1	323.8	302.5	21.37	15.153	
3,800.0	3,746.2	3,772.8	3,687.1	12.3	15.0	-61.35	-602.0	-501.0	332.6	310.6	22.09	15.058	
3,900.0	3,844.4	3,872.4	3,784.0	12.7	15.4	-61.64	-619.8	-515.8	341.5	318.7	22.81	14.969	
4,000.0	3,942.5	3,972.0	3,880.8	13.0	15.9	-61.92	-637.6	-530.7	350.3	326.8	23.53	14.885	
4,100.0	4,040.7	4,071.6	3,977.7	13.4	16.3	-62.19	-655.3	-545.6	359.2	334.9	24.26	14.806	
4,200.0	4,138.9	4,171.2	4,074.5	13.8	16.8	-62.44	-673.1	-560.4	368.0	343.0	24.98	14.732	
4,300.0	4,237.0	4,270.8	4,171.4	14.2	17.2	-62.68	-690.9	-575.3	376.9	351.2	25.70	14.663	
4,400.0	4,335.2	4,370.4	4,268.3	14.6	17.7	-62.91	-708.7	-590.2	385.7	359.3	26.43	14.597	
4,500.0	4,433.4	4,470.0	4,365.1	14.9	18.1	-63.13	-726.5	-605.0	394.6	367.5	27.15	14.534	
4,600.0	4,531.5	4,569.6	4,462.0	15.3	18.5	-63.35	-744.2	-619.9	403.5	375.6	27.88	14.475	
4,700.0	4,629.7	4,669.2	4,558.8	15.7	19.0	-63.55	-762.0	-634.7	412.4	383.8	28.60	14.419	
4,800.0	4,727.9	4,768.8	4,655.7	16.1	19.4	-63.74	-779.8	-649.6	421.3	391.9	29.33	14.366	
4,900.0	4,826.0	4,868.4	4,752.6	16.4	19.9	-63.92	-797.6	-664.5	430.2	400.1	30.05	14.315	
5,000.0	4,924.2	4,968.0	4,849.4	16.8	20.3	-64.10	-815.3	-679.3	439.1	408.3	30.78	14.266	
5,100.0	5,022.4	5,067.6	4,946.3	17.2	20.8	-64.27	-833.1	-694.2	448.0	416.5	31.50	14.220	

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 6-34D
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 6-34D	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	5,120.5	5,167.2	5,043.1	17.6	21.2	-64.44	-850.9	-709.1	456.9	424.6	32.23	14.176		
5,300.0	5,218.7	5,266.8	5,140.0	18.0	21.6	-64.59	-868.7	-723.9	465.8	432.8	32.95	14.134		
5,400.0	5,316.9	5,366.4	5,236.9	18.3	22.1	-64.75	-886.4	-738.8	474.7	441.0	33.68	14.094		
5,500.0	5,415.0	5,465.9	5,333.7	18.7	22.5	-64.89	-904.2	-753.6	483.6	449.2	34.41	14.056		
5,600.0	5,513.2	5,565.5	5,430.6	19.1	23.0	-65.03	-922.0	-768.5	492.5	457.4	35.13	14.019		
5,700.0	5,611.4	5,665.1	5,527.5	19.5	23.4	-65.17	-939.8	-783.4	501.4	465.6	35.86	13.984		
5,800.0	5,709.5	5,764.7	5,624.3	19.9	23.9	-65.30	-957.6	-798.2	510.4	473.8	36.59	13.950		
5,900.0	5,807.7	5,864.3	5,721.2	20.2	24.3	-65.43	-975.3	-813.1	519.3	482.0	37.31	13.918		
6,000.0	5,905.9	5,963.9	5,818.0	20.6	24.8	-65.55	-993.1	-828.0	528.2	490.2	38.04	13.886		
6,100.0	6,004.0	6,063.5	5,914.9	21.0	25.2	-65.67	-1,010.9	-842.8	537.2	498.4	38.77	13.856		
6,200.0	6,102.2	6,163.1	6,011.8	21.4	25.6	-65.78	-1,028.7	-857.7	546.1	506.6	39.49	13.827		
6,300.0	6,200.4	6,262.7	6,108.6	21.8	26.1	-65.89	-1,046.4	-872.6	555.0	514.8	40.22	13.799		
6,400.0	6,298.5	6,362.3	6,205.5	22.1	26.5	-66.00	-1,064.2	-887.4	564.0	523.0	40.95	13.773		
6,500.0	6,396.7	6,461.9	6,302.3	22.5	27.0	-66.10	-1,082.0	-902.3	572.9	531.2	41.68	13.747		
6,600.0	6,494.9	6,561.5	6,399.2	22.9	27.4	-66.20	-1,099.8	-917.1	581.9	539.4	42.40	13.722		
6,700.0	6,593.0	6,661.1	6,496.1	23.3	27.9	-66.30	-1,117.5	-932.0	590.8	547.7	43.13	13.698		
6,800.0	6,691.2	6,771.4	6,603.6	23.7	28.3	-66.49	-1,136.5	-947.9	599.2	555.3	43.90	13.650		
6,900.0	6,789.8	6,888.5	6,718.5	24.0	28.7	-66.84	-1,153.4	-962.0	605.9	561.3	44.63	13.577		
7,000.0	6,888.9	7,005.8	6,834.5	24.2	29.1	-67.12	-1,166.7	-973.1	611.1	565.9	45.24	13.508		
7,100.0	6,988.4	7,123.2	6,951.3	24.4	29.3	-67.34	-1,176.3	-981.1	614.8	569.1	45.73	13.445		
7,200.0	7,088.2	7,240.8	7,068.7	24.6	29.5	-67.50	-1,182.3	-986.1	617.0	570.9	46.10	13.384		
7,300.0	7,188.2	7,358.5	7,186.3	24.7	29.6	-67.60	-1,184.5	-988.0	617.6	571.3	46.36	13.322		
7,364.6	7,252.8	7,424.4	7,252.2	24.8	29.6	-67.11	-1,184.6	-988.1	617.5	571.0	46.50	13.278		
7,400.0	7,288.2	7,459.4	7,287.2	24.8	29.7	-66.05	-1,184.6	-988.2	617.6	571.0	46.56	13.264		
7,500.0	7,388.2	7,558.3	7,386.1	24.9	29.8	-66.05	-1,184.9	-988.7	617.6	570.9	46.78	13.204		
7,600.0	7,488.2	7,657.2	7,485.0	25.0	29.9	-66.04	-1,185.4	-989.6	617.7	570.7	47.00	13.141		
7,700.0	7,588.2	7,756.5	7,584.3	25.1	30.0	-66.04	-1,186.1	-990.8	617.7	570.5	47.24	13.076		
7,800.0	7,688.1	7,856.5	7,684.2	25.2	30.1	-66.04	-1,186.9	-992.2	617.7	570.2	47.48	13.010		
7,900.0	7,788.1	7,956.5	7,784.2	25.4	30.2	-66.04	-1,187.7	-993.5	617.7	570.0	47.72	12.944		
8,000.0	7,888.1	8,056.5	7,884.2	25.5	30.3	-66.04	-1,188.5	-994.9	617.7	569.7	47.96	12.879		
8,100.0	7,988.1	8,156.5	7,984.2	25.6	30.4	-66.04	-1,189.3	-996.2	617.7	569.5	48.21	12.813		
8,200.0	8,088.1	8,256.5	8,084.2	25.7	30.5	-66.04	-1,190.0	-997.5	617.7	569.2	48.45	12.749		
8,300.0	8,188.1	8,356.5	8,184.2	25.8	30.6	-66.04	-1,190.8	-998.9	617.7	569.0	48.70	12.684		
8,400.0	8,288.1	8,456.5	8,284.2	25.9	30.7	-66.04	-1,191.6	-1,000.2	617.7	568.7	48.95	12.620		
8,500.0	8,388.1	8,556.5	8,384.2	26.1	30.8	-66.04	-1,192.4	-1,001.6	617.7	568.5	49.20	12.556		
8,600.0	8,488.0	8,656.5	8,484.1	26.2	30.9	-66.04	-1,193.1	-1,002.9	617.7	568.2	49.45	12.492		
8,700.0	8,588.0	8,756.5	8,584.1	26.3	31.0	-66.04	-1,193.9	-1,004.3	617.7	568.0	49.70	12.429		
8,800.0	8,688.0	8,856.5	8,684.1	26.4	31.1	-66.04	-1,194.7	-1,005.6	617.7	567.7	49.95	12.366		
8,900.0	8,788.0	8,956.5	8,784.1	26.6	31.2	-66.04	-1,195.5	-1,007.0	617.7	567.5	50.21	12.303		
9,000.0	8,888.0	9,056.5	8,884.1	26.7	31.3	-66.04	-1,196.3	-1,008.3	617.7	567.2	50.46	12.241		
9,100.0	8,988.0	9,156.5	8,984.1	26.8	31.4	-66.03	-1,197.0	-1,009.7	617.7	567.0	50.72	12.179		
9,200.0	9,088.0	9,256.5	9,084.1	26.9	31.5	-66.03	-1,197.8	-1,011.0	617.7	566.7	50.98	12.117		
9,300.0	9,188.0	9,356.5	9,184.1	27.1	31.7	-66.03	-1,198.6	-1,012.4	617.7	566.5	51.23	12.056		
9,400.0	9,287.9	9,456.5	9,284.0	27.2	31.8	-66.03	-1,199.4	-1,013.7	617.7	566.2	51.49	11.995		
9,500.0	9,387.9	9,556.5	9,384.0	27.3	31.9	-66.03	-1,200.1	-1,015.1	617.7	565.9	51.76	11.935		
9,600.0	9,487.9	9,656.5	9,484.0	27.4	32.0	-66.03	-1,200.9	-1,016.4	617.7	565.7	52.02	11.874		
9,700.0	9,587.9	9,756.5	9,584.0	27.6	32.1	-66.03	-1,201.7	-1,017.8	617.7	565.4	52.28	11.815		
9,800.0	9,687.9	9,856.5	9,684.0	27.7	32.2	-66.03	-1,202.5	-1,019.1	617.7	565.1	52.55	11.755		
9,900.0	9,787.9	9,956.5	9,784.0	27.8	32.3	-66.03	-1,203.3	-1,020.5	617.7	564.9	52.81	11.696		
10,000.0	9,887.9	10,056.5	9,884.0	28.0	32.5	-66.03	-1,204.0	-1,021.8	617.7	564.6	53.08	11.637		
10,052.4	9,940.3	10,108.9	9,936.4	28.0	32.5	-66.03	-1,204.4	-1,022.5	617.7	564.5	53.22	11.607		
10,081.1	9,969.0	10,121.5	9,949.0	28.1	32.5	-66.03	-1,204.5	-1,022.7	617.9	564.6	53.27	11.599 SF		

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 Well:	Chevron 6-34D	Survey Calculation Method:	Minimum Curvature
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Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-34D
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 6-34D	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					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		
0.0	0.0	0.0	0.0	0.0	0.0	-143.11	-12.0	-9.0	15.0					
100.0	100.0	100.0	100.0	0.1	0.1	-143.11	-12.0	-9.0	15.0	14.8	0.27	55.201		
200.0	200.0	200.0	200.0	0.3	0.3	-143.11	-12.0	-9.0	15.0	14.4	0.62	24.189		
300.0	300.0	300.0	300.0	0.5	0.5	-143.11	-12.0	-9.0	15.0	14.1	0.97	15.488 CC, ES		
400.0	400.0	399.5	399.4	0.7	0.7	-141.76	-13.1	-10.3	16.7	15.4	1.32	12.660		
500.0	500.0	498.7	498.5	0.8	0.9	-138.99	-16.4	-14.3	21.8	20.2	1.68	12.974		
600.0	600.0	597.6	597.0	1.0	1.1	-19.04	-21.9	-20.9	28.8	26.8	2.01	14.280		
700.0	699.8	696.2	694.9	1.2	1.3	-19.19	-29.6	-30.0	35.8	33.5	2.36	15.156		
800.0	799.5	794.6	792.2	1.4	1.6	-20.18	-39.4	-41.7	43.0	40.3	2.72	15.826		
900.0	898.7	893.0	888.8	1.6	2.0	-21.65	-51.3	-55.9	50.3	47.2	3.08	16.323		
1,000.0	997.5	992.8	986.6	1.9	2.3	-23.90	-64.2	-71.2	55.6	52.1	3.47	16.036		
1,100.0	1,095.7	1,092.7	1,084.5	2.3	2.7	-27.08	-77.0	-86.6	58.3	54.4	3.90	14.949		
1,200.0	1,193.9	1,192.7	1,182.3	2.6	3.1	-30.18	-89.9	-101.9	60.8	56.4	4.37	13.891		
1,300.0	1,292.0	1,292.6	1,280.2	2.9	3.5	-33.03	-102.8	-117.3	63.4	58.5	4.89	12.973		
1,400.0	1,390.2	1,392.5	1,378.1	3.3	3.8	-35.64	-115.7	-132.7	66.2	60.7	5.44	12.176		
1,500.0	1,488.4	1,492.4	1,476.0	3.7	4.2	-38.04	-128.6	-148.0	69.1	63.1	6.02	11.485		
1,600.0	1,586.5	1,592.3	1,573.9	4.0	4.6	-40.25	-141.5	-163.4	72.1	65.5	6.62	10.887		
1,700.0	1,684.7	1,692.2	1,671.8	4.4	5.0	-42.27	-154.4	-178.8	75.2	68.0	7.26	10.368		
1,800.0	1,782.9	1,792.2	1,769.6	4.8	5.4	-44.13	-167.2	-194.1	78.5	70.5	7.91	9.919		
1,900.0	1,881.0	1,892.1	1,867.5	5.1	5.8	-45.84	-180.1	-209.5	81.7	73.2	8.58	9.527		
2,000.0	1,979.2	1,992.0	1,965.4	5.5	6.2	-47.42	-193.0	-224.9	85.1	75.8	9.26	9.186		
2,100.0	2,077.4	2,091.9	2,063.3	5.9	6.6	-48.88	-205.9	-240.2	88.5	78.5	9.96	8.887		
2,200.0	2,175.5	2,191.8	2,161.2	6.3	7.0	-50.23	-218.8	-255.6	92.0	81.3	10.66	8.624		
2,300.0	2,273.7	2,291.7	2,259.1	6.6	7.4	-51.48	-231.7	-271.0	95.5	84.1	11.38	8.392		
2,400.0	2,371.9	2,391.7	2,357.0	7.0	7.8	-52.64	-244.6	-286.3	99.0	86.9	12.10	8.186		
2,500.0	2,470.0	2,491.6	2,454.8	7.4	8.1	-53.72	-257.4	-301.7	102.6	89.8	12.82	8.003		
2,600.0	2,568.2	2,591.5	2,552.7	7.8	8.5	-54.73	-270.3	-317.1	106.3	92.7	13.55	7.839		
2,700.0	2,666.4	2,691.4	2,650.6	8.1	8.9	-55.67	-283.2	-332.4	109.9	95.6	14.29	7.692		
2,800.0	2,764.5	2,791.3	2,748.5	8.5	9.3	-56.55	-296.1	-347.8	113.6	98.6	15.03	7.559		
2,900.0	2,862.7	2,891.3	2,846.4	8.9	9.7	-57.37	-309.0	-363.2	117.3	101.5	15.77	7.439		
3,000.0	2,960.9	2,991.2	2,944.3	9.3	10.1	-58.15	-321.9	-378.5	121.0	104.5	16.51	7.330		
3,100.0	3,059.0	3,091.1	3,042.1	9.6	10.5	-58.87	-334.7	-393.9	124.8	107.5	17.26	7.231		
3,200.0	3,157.2	3,191.0	3,140.0	10.0	10.9	-59.56	-347.6	-409.3	128.6	110.6	18.00	7.141		
3,300.0	3,255.4	3,290.9	3,237.9	10.4	11.3	-60.20	-360.5	-424.6	132.4	113.6	18.75	7.058		
3,400.0	3,353.5	3,390.8	3,335.8	10.8	11.7	-60.81	-373.4	-440.0	136.2	116.7	19.50	6.981		
3,500.0	3,451.7	3,490.8	3,433.7	11.1	12.1	-61.39	-386.3	-455.4	140.0	119.7	20.25	6.911		
3,600.0	3,549.9	3,590.7	3,531.6	11.5	12.5	-61.94	-399.2	-470.7	143.8	122.8	21.00	6.847		
3,700.0	3,648.0	3,690.6	3,629.4	11.9	12.9	-62.45	-412.1	-486.1	147.7	125.9	21.76	6.787		
3,800.0	3,746.2	3,790.5	3,727.3	12.3	13.3	-62.94	-424.9	-501.5	151.5	129.0	22.51	6.731		
3,900.0	3,844.4	3,890.4	3,825.2	12.7	13.7	-63.41	-437.8	-516.8	155.4	132.1	23.26	6.679		
4,000.0	3,942.5	3,990.3	3,923.1	13.0	14.0	-63.85	-450.7	-532.2	159.3	135.2	24.02	6.631		
4,100.0	4,040.7	4,090.3	4,021.0	13.4	14.4	-64.28	-463.6	-547.6	163.1	138.4	24.77	6.586		
4,200.0	4,138.9	4,190.2	4,118.9	13.8	14.8	-64.68	-476.5	-562.9	167.0	141.5	25.52	6.544		
4,300.0	4,237.0	4,290.1	4,216.8	14.2	15.2	-65.06	-489.4	-578.3	170.9	144.7	26.28	6.505		
4,400.0	4,335.2	4,390.0	4,314.6	14.6	15.6	-65.43	-502.3	-593.7	174.8	147.8	27.03	6.468		
4,500.0	4,433.4	4,489.9	4,412.5	14.9	16.0	-65.78	-515.1	-609.1	178.8	151.0	27.79	6.433		
4,600.0	4,531.5	4,589.8	4,510.4	15.3	16.4	-66.12	-528.0	-624.4	182.7	154.1	28.54	6.400		
4,700.0	4,629.7	4,689.8	4,608.3	15.7	16.8	-66.44	-540.9	-639.8	186.6	157.3	29.30	6.370		
4,800.0	4,727.9	4,789.7	4,706.2	16.1	17.2	-66.75	-553.8	-655.2	190.6	160.5	30.05	6.340		
4,900.0	4,826.0	4,889.6	4,804.1	16.4	17.6	-67.05	-566.7	-670.5	194.5	163.7	30.81	6.313		
5,000.0	4,924.2	4,989.5	4,901.9	16.8	18.0	-67.33	-579.6	-685.9	198.4	166.9	31.56	6.287		
5,100.0	5,022.4	5,089.4	4,999.8	17.2	18.4	-67.60	-592.4	-701.3	202.4	170.1	32.32	6.262		

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 6-34D
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 6-34D	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	5,120.5	5,189.4	5,097.7	17.6	18.8	-67.87	-605.3	-716.6	206.3	173.3	33.07	6.239		
5,300.0	5,218.7	5,289.3	5,195.6	18.0	19.2	-68.12	-618.2	-732.0	210.3	176.5	33.83	6.216		
5,400.0	5,316.9	5,389.2	5,293.5	18.3	19.6	-68.36	-631.1	-747.4	214.3	179.7	34.59	6.195		
5,500.0	5,415.0	5,489.1	5,391.4	18.7	20.0	-68.60	-644.0	-762.7	218.2	182.9	35.34	6.175		
5,600.0	5,513.2	5,589.0	5,489.2	19.1	20.4	-68.83	-656.9	-778.1	222.2	186.1	36.10	6.156		
5,700.0	5,611.4	5,688.9	5,587.1	19.5	20.8	-69.04	-669.8	-793.5	226.2	189.3	36.85	6.138		
5,800.0	5,709.5	5,788.9	5,685.0	19.9	21.1	-69.26	-682.6	-808.8	230.1	192.5	37.61	6.120		
5,900.0	5,807.7	5,888.8	5,782.9	20.2	21.5	-69.46	-695.5	-824.2	234.1	195.8	38.36	6.103		
6,000.0	5,905.9	5,988.7	5,880.8	20.6	21.9	-69.66	-708.4	-839.6	238.1	199.0	39.12	6.087		
6,100.0	6,004.0	6,088.6	5,978.7	21.0	22.3	-69.85	-721.3	-854.9	242.1	202.2	39.87	6.072		
6,200.0	6,102.2	6,188.5	6,076.6	21.4	22.7	-70.03	-734.2	-870.3	246.1	205.5	40.63	6.057		
6,300.0	6,200.4	6,288.4	6,174.4	21.8	23.1	-70.21	-747.1	-885.7	250.1	208.7	41.38	6.043		
6,400.0	6,298.5	6,388.4	6,272.3	22.1	23.5	-70.38	-760.0	-901.0	254.1	211.9	42.14	6.030		
6,500.0	6,396.7	6,488.3	6,370.2	22.5	23.9	-70.55	-772.8	-916.4	258.1	215.2	42.89	6.017		
6,600.0	6,494.9	6,588.2	6,468.1	22.9	24.3	-70.71	-785.7	-931.8	262.1	218.4	43.65	6.004		
6,700.0	6,593.0	6,688.1	6,566.0	23.3	24.7	-70.87	-798.6	-947.1	266.1	221.7	44.40	5.992		
6,800.0	6,691.2	6,789.5	6,665.4	23.7	25.1	-71.06	-811.6	-962.6	270.0	224.8	45.16	5.978		
6,900.0	6,789.8	6,894.5	6,768.8	24.0	25.4	-71.34	-823.2	-976.4	273.3	227.4	45.84	5.962		
7,000.0	6,888.9	6,999.5	6,872.8	24.2	25.7	-71.57	-832.3	-987.3	275.9	229.5	46.40	5.945		
7,100.0	6,988.4	7,104.5	6,977.3	24.4	25.9	-71.76	-839.0	-995.3	277.7	230.9	46.85	5.928		
7,200.0	7,088.2	7,209.6	7,082.1	24.6	26.1	-71.90	-843.2	-1,000.3	278.9	231.7	47.20	5.909		
7,300.0	7,188.2	7,314.6	7,187.1	24.7	26.2	-72.00	-845.0	-1,002.4	279.3	231.8	47.44	5.887		
7,394.1	7,282.3	7,409.5	7,282.0	24.8	26.3	-70.82	-845.1	-1,002.6	279.1	231.5	47.64	5.859		
7,400.0	7,288.2	7,415.3	7,287.8	24.8	26.3	-70.46	-845.1	-1,002.6	279.3	231.6	47.63	5.863		
7,500.0	7,388.2	7,514.9	7,387.4	24.9	26.4	-70.45	-845.4	-1,003.1	279.3	231.4	47.84	5.838		
7,600.0	7,488.2	7,614.5	7,487.0	25.0	26.5	-70.44	-845.9	-1,003.9	279.3	231.2	48.06	5.811		
7,700.0	7,588.2	7,714.2	7,586.7	25.1	26.6	-70.43	-846.6	-1,005.2	279.3	231.0	48.30	5.783		
7,800.0	7,688.1	7,814.2	7,686.7	25.2	26.7	-70.43	-847.4	-1,006.5	279.3	230.8	48.53	5.755		
7,900.0	7,788.1	7,914.2	7,786.7	25.4	26.8	-70.43	-848.1	-1,007.8	279.3	230.5	48.77	5.727		
8,000.0	7,888.1	8,014.2	7,886.7	25.5	26.9	-70.44	-848.9	-1,009.2	279.3	230.3	49.01	5.699		
8,100.0	7,988.1	8,114.2	7,986.6	25.6	27.0	-70.44	-849.7	-1,010.5	279.3	230.1	49.25	5.671		
8,200.0	8,088.1	8,214.2	8,086.6	25.7	27.2	-70.44	-850.5	-1,011.9	279.3	229.8	49.50	5.643		
8,300.0	8,188.1	8,314.2	8,186.6	25.8	27.3	-70.44	-851.2	-1,013.2	279.3	229.6	49.74	5.616		
8,400.0	8,288.1	8,414.2	8,286.6	25.9	27.4	-70.44	-852.0	-1,014.6	279.3	229.3	49.98	5.588		
8,500.0	8,388.1	8,514.2	8,386.6	26.1	27.5	-70.44	-852.8	-1,015.9	279.3	229.1	50.23	5.561		
8,600.0	8,488.0	8,614.2	8,486.6	26.2	27.6	-70.44	-853.6	-1,017.3	279.3	228.8	50.48	5.533		
8,700.0	8,588.0	8,714.2	8,586.6	26.3	27.7	-70.44	-854.4	-1,018.6	279.3	228.6	50.73	5.506		
8,800.0	8,688.0	8,814.2	8,686.6	26.4	27.9	-70.44	-855.1	-1,020.0	279.3	228.3	50.98	5.479		
8,900.0	8,788.0	8,914.2	8,786.5	26.6	28.0	-70.44	-855.9	-1,021.3	279.3	228.1	51.23	5.453		
9,000.0	8,888.0	9,014.2	8,886.5	26.7	28.1	-70.44	-856.7	-1,022.6	279.3	227.8	51.48	5.426		
9,100.0	8,988.0	9,114.2	8,986.5	26.8	28.2	-70.44	-857.5	-1,024.0	279.3	227.6	51.73	5.399		
9,200.0	9,088.0	9,214.2	9,086.5	26.9	28.3	-70.44	-858.3	-1,025.3	279.3	227.3	51.99	5.373		
9,300.0	9,188.0	9,314.2	9,186.5	27.1	28.5	-70.44	-859.0	-1,026.7	279.3	227.1	52.25	5.347		
9,400.0	9,287.9	9,414.2	9,286.5	27.2	28.6	-70.44	-859.8	-1,028.0	279.3	226.8	52.50	5.320		
9,500.0	9,387.9	9,514.2	9,386.5	27.3	28.7	-70.44	-860.6	-1,029.4	279.3	226.6	52.76	5.294		
9,600.0	9,487.9	9,614.2	9,486.5	27.4	28.8	-70.44	-861.4	-1,030.7	279.3	226.3	53.02	5.269		
9,700.0	9,587.9	9,714.2	9,586.5	27.6	28.9	-70.44	-862.2	-1,032.1	279.3	226.1	53.28	5.243		
9,800.0	9,687.9	9,814.2	9,686.4	27.7	29.1	-70.44	-862.9	-1,033.4	279.3	225.8	53.54	5.217		
9,900.0	9,787.9	9,914.2	9,786.4	27.8	29.2	-70.45	-863.7	-1,034.8	279.3	225.5	53.80	5.192		
10,000.0	9,887.9	10,014.2	9,886.4	28.0	29.3	-70.45	-864.5	-1,036.1	279.3	225.3	54.07	5.167		
10,045.3	9,933.2	10,059.5	9,931.7	28.0	29.4	-70.45	-864.8	-1,036.7	279.3	225.2	54.19	5.155		
10,081.1	9,969.0	10,086.8	9,959.0	28.1	29.4	-70.45	-865.1	-1,037.1	279.5	225.2	54.27	5.150 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 6-34D
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 6-34D	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 6-34D
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 6-34D	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	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		
300.0	300.0	300.0	300.0	0.5	0.5	36.89	12.0	9.0	15.0	14.1	0.97	15.488		
400.0	400.0	400.4	400.3	0.7	0.7	32.00	11.7	7.3	13.8	12.5	1.32	10.416		
500.0	500.0	500.5	500.3	0.8	0.9	11.37	10.7	2.1	10.9	9.2	1.68	6.471		
549.0	549.0	549.4	549.1	0.9	1.0	111.38	9.9	-1.6	10.2	8.3	1.88	5.416 CC, ES		
600.0	600.0	600.2	599.7	1.0	1.1	92.01	9.0	-6.4	11.0	8.9	2.08	5.265 SF		
700.0	699.8	699.7	698.4	1.2	1.3	67.47	6.6	-18.3	15.8	13.3	2.47	6.392		
800.0	799.5	799.0	796.5	1.4	1.6	57.37	3.6	-33.5	22.8	19.9	2.87	7.944		
900.0	898.7	898.8	894.9	1.6	1.9	56.04	0.4	-50.0	29.1	25.8	3.32	8.779		
1,000.0	997.5	998.7	993.3	1.9	2.3	60.08	-2.9	-66.5	33.6	29.8	3.87	8.692		
1,100.0	1,095.7	1,098.5	1,091.7	2.3	2.6	67.39	-6.1	-83.0	37.0	32.4	4.54	8.144		
1,200.0	1,193.9	1,198.4	1,190.1	2.6	2.9	74.01	-9.4	-99.5	40.7	35.5	5.26	7.737		
1,300.0	1,292.0	1,298.2	1,288.6	2.9	3.3	79.46	-12.6	-116.0	44.9	38.9	6.00	7.484		
1,400.0	1,390.2	1,398.0	1,387.0	3.3	3.6	83.94	-15.9	-132.4	49.4	42.7	6.74	7.333		
1,500.0	1,488.4	1,497.9	1,485.4	3.7	3.9	87.66	-19.1	-148.9	54.2	46.7	7.48	7.249		
1,600.0	1,586.5	1,597.7	1,583.8	4.0	4.3	90.76	-22.4	-165.4	59.2	51.0	8.21	7.209		
1,700.0	1,684.7	1,697.5	1,682.2	4.4	4.6	93.38	-25.7	-181.9	64.3	55.4	8.93	7.197		
1,800.0	1,782.9	1,797.3	1,780.6	4.8	5.0	95.61	-28.9	-198.4	69.5	59.9	9.65	7.203		
1,900.0	1,881.0	1,897.2	1,879.0	5.1	5.3	97.52	-32.2	-214.9	74.8	64.5	10.36	7.220		
2,000.0	1,979.2	1,997.0	1,977.4	5.5	5.6	99.18	-35.4	-231.4	80.2	69.1	11.07	7.245		
2,100.0	2,077.4	2,096.8	2,075.8	5.9	6.0	100.63	-38.7	-247.9	85.7	73.9	11.78	7.274		
2,200.0	2,175.5	2,196.7	2,174.2	6.3	6.3	101.91	-41.9	-264.4	91.2	78.7	12.48	7.306		
2,300.0	2,273.7	2,296.5	2,272.6	6.6	6.7	103.04	-45.2	-280.9	96.7	83.5	13.17	7.340		
2,400.0	2,371.9	2,396.3	2,371.0	7.0	7.0	104.05	-48.4	-297.4	102.3	88.4	13.87	7.373		
2,500.0	2,470.0	2,496.1	2,469.4	7.4	7.4	104.95	-51.7	-313.9	107.9	93.3	14.56	7.407		
2,600.0	2,568.2	2,596.0	2,567.8	7.8	7.7	105.76	-54.9	-330.4	113.5	98.2	15.25	7.440		
2,700.0	2,666.4	2,695.8	2,666.2	8.1	8.0	106.50	-58.2	-346.9	119.1	103.2	15.94	7.472		
2,800.0	2,764.5	2,795.6	2,764.6	8.5	8.4	107.17	-61.4	-363.4	124.8	108.1	16.63	7.503		
2,900.0	2,862.7	2,895.5	2,863.0	8.9	8.7	107.78	-64.7	-379.9	130.4	113.1	17.32	7.533		
3,000.0	2,960.9	2,995.3	2,961.4	9.3	9.1	108.34	-68.0	-396.4	136.1	118.1	18.00	7.562		
3,100.0	3,059.0	3,095.1	3,059.8	9.6	9.4	108.86	-71.2	-412.8	141.8	123.1	18.69	7.590		
3,200.0	3,157.2	3,195.0	3,158.2	10.0	9.8	109.34	-74.5	-429.3	147.5	128.2	19.37	7.617		
3,300.0	3,255.4	3,294.8	3,256.6	10.4	10.1	109.78	-77.7	-445.8	153.3	133.2	20.05	7.642		
3,400.0	3,353.5	3,394.6	3,355.0	10.8	10.5	110.19	-81.0	-462.3	159.0	138.3	20.74	7.667		
3,500.0	3,451.7	3,494.4	3,453.4	11.1	10.8	110.57	-84.2	-478.8	164.7	143.3	21.42	7.691		
3,600.0	3,549.9	3,594.3	3,551.8	11.5	11.1	110.92	-87.5	-495.3	170.5	148.4	22.10	7.713		
3,700.0	3,648.0	3,694.1	3,650.2	11.9	11.5	111.25	-90.7	-511.8	176.2	153.4	22.78	7.735		
3,800.0	3,746.2	3,793.9	3,748.6	12.3	11.8	111.56	-94.0	-528.3	182.0	158.5	23.46	7.756		
3,900.0	3,844.4	3,893.8	3,847.0	12.7	12.2	111.85	-97.2	-544.8	187.7	163.6	24.14	7.776		
4,000.0	3,942.5	3,993.6	3,945.5	13.0	12.5	112.13	-100.5	-561.3	193.5	168.7	24.82	7.795		
4,100.0	4,040.7	4,093.4	4,043.9	13.4	12.9	112.39	-103.8	-577.8	199.3	173.8	25.50	7.814		
4,200.0	4,138.9	4,193.3	4,142.3	13.8	13.2	112.63	-107.0	-594.3	205.0	178.9	26.18	7.831		
4,300.0	4,237.0	4,293.1	4,240.7	14.2	13.5	112.86	-110.3	-610.8	210.8	184.0	26.86	7.848		
4,400.0	4,335.2	4,392.9	4,339.1	14.6	13.9	113.08	-113.5	-627.3	216.6	189.1	27.54	7.865		
4,500.0	4,433.4	4,492.7	4,437.5	14.9	14.2	113.29	-116.8	-643.8	222.4	194.2	28.22	7.881		
4,600.0	4,531.5	4,592.6	4,535.9	15.3	14.6	113.48	-120.0	-660.3	228.2	199.3	28.90	7.896		
4,700.0	4,629.7	4,692.4	4,634.3	15.7	14.9	113.67	-123.3	-676.8	233.9	204.4	29.57	7.910		
4,800.0	4,727.9	4,792.2	4,732.7	16.1	15.3	113.85	-126.5	-693.2	239.7	209.5	30.25	7.925		
4,900.0	4,826.0	4,892.1	4,831.1	16.4	15.6	114.02	-129.8	-709.7	245.5	214.6	30.93	7.938		
5,000.0	4,924.2	4,991.9	4,929.5	16.8	16.0	114.18	-133.0	-726.2	251.3	219.7	31.61	7.951		

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 6-34D
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 6-34D	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						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		
5,100.0	5,022.4	5,091.7	5,027.9	17.2	16.3	114.33	-136.3	-742.7	257.1	224.8	32.28	7.964		
5,200.0	5,120.5	5,191.5	5,126.3	17.6	16.6	114.48	-139.5	-759.2	262.9	229.9	32.96	7.976		
5,300.0	5,218.7	5,291.4	5,224.7	18.0	17.0	114.62	-142.8	-775.7	268.7	235.1	33.64	7.988		
5,400.0	5,316.9	5,391.2	5,323.1	18.3	17.3	114.75	-146.1	-792.2	274.5	240.2	34.32	7.999		
5,500.0	5,415.0	5,491.0	5,421.5	18.7	17.7	114.88	-149.3	-808.7	280.3	245.3	34.99	8.010		
5,600.0	5,513.2	5,590.9	5,519.9	19.1	18.0	115.01	-152.6	-825.2	286.1	250.4	35.67	8.021		
5,700.0	5,611.4	5,690.7	5,618.3	19.5	18.4	115.13	-155.8	-841.7	291.9	255.6	36.35	8.031		
5,800.0	5,709.5	5,790.5	5,716.7	19.9	18.7	115.24	-159.1	-858.2	297.7	260.7	37.02	8.042		
5,900.0	5,807.7	5,890.4	5,815.1	20.2	19.1	115.35	-162.3	-874.7	303.5	265.8	37.70	8.051		
6,000.0	5,905.9	5,990.2	5,913.5	20.6	19.4	115.46	-165.6	-891.2	309.3	271.0	38.38	8.061		
6,100.0	6,004.0	6,090.0	6,011.9	21.0	19.7	115.56	-168.8	-907.7	315.1	276.1	39.05	8.070		
6,200.0	6,102.2	6,189.8	6,110.3	21.4	20.1	115.66	-172.1	-924.2	321.0	281.2	39.73	8.079		
6,300.0	6,200.4	6,289.7	6,208.7	21.8	20.4	115.75	-175.3	-940.7	326.8	286.4	40.40	8.087		
6,400.0	6,298.5	6,389.5	6,307.1	22.1	20.8	115.85	-178.6	-957.2	332.6	291.5	41.08	8.096		
6,500.0	6,396.7	6,489.3	6,405.5	22.5	21.1	115.93	-181.9	-973.7	338.4	296.6	41.76	8.104		
6,600.0	6,494.9	6,589.2	6,504.0	22.9	21.5	116.02	-185.1	-990.1	344.2	301.8	42.43	8.112		
6,700.0	6,593.0	6,689.0	6,602.4	23.3	21.8	116.10	-188.4	-1,006.6	350.0	306.9	43.11	8.119		
6,800.0	6,691.2	6,788.8	6,700.8	23.7	22.2	116.19	-191.6	-1,023.1	355.8	312.0	43.79	8.126		
6,900.0	6,789.8	6,887.9	6,798.4	24.0	22.5	116.07	-194.8	-1,039.2	360.6	316.2	44.44	8.114		
7,000.0	6,888.9	6,985.9	6,895.5	24.2	22.8	115.88	-197.4	-1,052.4	364.3	319.3	45.00	8.097		
7,100.0	6,988.4	7,084.0	6,993.1	24.4	23.0	115.72	-199.3	-1,062.3	367.1	321.6	45.45	8.077		
7,200.0	7,088.2	7,182.1	7,091.0	24.6	23.1	115.58	-200.6	-1,068.9	368.8	323.0	45.79	8.054		
7,300.0	7,188.2	7,280.3	7,189.1	24.7	23.3	115.46	-201.3	-1,072.2	369.5	323.5	46.04	8.027		
7,400.0	7,288.2	7,379.7	7,288.5	24.8	23.4	116.98	-201.4	-1,072.7	369.6	323.3	46.24	7.992		
7,500.0	7,388.2	7,480.5	7,389.3	24.9	23.5	116.99	-201.6	-1,073.1	369.6	323.1	46.46	7.956		
7,600.0	7,488.2	7,581.2	7,490.0	25.0	23.6	117.00	-202.1	-1,073.8	369.6	322.9	46.68	7.918		
7,700.0	7,588.2	7,681.9	7,590.7	25.1	23.7	117.01	-202.7	-1,075.0	369.7	322.7	46.92	7.879		
7,800.0	7,688.1	7,782.0	7,690.8	25.2	23.8	117.01	-203.5	-1,076.3	369.7	322.5	47.16	7.839		
7,900.0	7,788.1	7,882.0	7,790.7	25.4	23.9	117.01	-204.3	-1,077.7	369.7	322.3	47.40	7.799		
8,000.0	7,888.1	7,982.0	7,890.7	25.5	24.1	117.01	-205.1	-1,079.0	369.7	322.0	47.64	7.760		
8,100.0	7,988.1	8,082.0	7,990.7	25.6	24.2	117.01	-205.9	-1,080.3	369.7	321.8	47.88	7.720		
8,200.0	8,088.1	8,182.0	8,090.7	25.7	24.3	117.01	-206.6	-1,081.7	369.7	321.5	48.13	7.681		
8,300.0	8,188.1	8,282.0	8,190.7	25.8	24.4	117.01	-207.4	-1,083.0	369.7	321.3	48.37	7.642		
8,400.0	8,288.1	8,382.0	8,290.7	25.9	24.5	117.01	-208.2	-1,084.4	369.7	321.0	48.62	7.603		
8,500.0	8,388.1	8,482.0	8,390.7	26.1	24.7	117.01	-209.0	-1,085.7	369.7	320.8	48.87	7.564		
8,600.0	8,488.0	8,582.0	8,490.7	26.2	24.8	117.02	-209.7	-1,087.1	369.6	320.5	49.12	7.526		
8,700.0	8,588.0	8,682.0	8,590.7	26.3	24.9	117.02	-210.5	-1,088.4	369.6	320.3	49.37	7.487		
8,800.0	8,688.0	8,782.0	8,690.6	26.4	25.0	117.02	-211.3	-1,089.8	369.6	320.0	49.62	7.449		
8,900.0	8,788.0	8,882.0	8,790.6	26.6	25.2	117.02	-212.1	-1,091.1	369.6	319.8	49.88	7.411		
9,000.0	8,888.0	8,982.0	8,890.6	26.7	25.3	117.02	-212.9	-1,092.5	369.6	319.5	50.13	7.374		
9,100.0	8,988.0	9,082.0	8,990.6	26.8	25.4	117.02	-213.6	-1,093.8	369.6	319.3	50.39	7.336		
9,200.0	9,088.0	9,182.0	9,090.6	26.9	25.6	117.02	-214.4	-1,095.2	369.6	319.0	50.64	7.299		
9,300.0	9,188.0	9,282.0	9,190.6	27.1	25.7	117.02	-215.2	-1,096.5	369.6	318.7	50.90	7.262		
9,400.0	9,287.9	9,382.0	9,290.6	27.2	25.8	117.02	-216.0	-1,097.9	369.6	318.5	51.16	7.225		
9,500.0	9,387.9	9,482.0	9,390.6	27.3	25.9	117.02	-216.8	-1,099.2	369.6	318.2	51.42	7.188		
9,600.0	9,487.9	9,582.0	9,490.5	27.4	26.1	117.02	-217.5	-1,100.5	369.6	318.0	51.68	7.152		
9,700.0	9,587.9	9,682.0	9,590.5	27.6	26.2	117.02	-218.3	-1,101.9	369.6	317.7	51.95	7.116		
9,800.0	9,687.9	9,782.0	9,690.5	27.7	26.3	117.02	-219.1	-1,103.2	369.6	317.4	52.21	7.080		
9,900.0	9,787.9	9,882.0	9,790.5	27.8	26.5	117.02	-219.9	-1,104.6	369.6	317.2	52.47	7.044		
10,000.0	9,887.9	9,982.0	9,890.5	28.0	26.6	117.02	-220.7	-1,105.9	369.6	316.9	52.74	7.008		
10,081.1	9,969.0	10,063.1	9,971.6	28.1	26.7	117.02	-221.3	-1,107.0	369.6	316.7	52.96	6.980		

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 6-34D
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 6-34D	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 6-36D - 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	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	300.5	300.5	0.5	0.5	33.97	24.2	16.3	29.2	28.2	0.97	29.927		
400.0	400.0	400.8	400.6	0.7	0.7	24.17	24.6	11.0	26.9	25.6	1.34	20.182		
500.0	500.0	500.6	500.0	0.8	0.9	5.29	25.2	2.3	25.3	23.7	1.69	15.007		
502.7	502.7	503.2	502.7	0.8	0.9	123.10	25.3	2.1	25.3	23.6	1.76	14.409 CC, ES		
600.0	600.0	600.0	598.7	1.0	1.2	101.41	26.2	-9.8	28.2	26.1	2.17	13.022		
700.0	699.8	698.9	696.4	1.2	1.5	86.59	27.3	-24.9	36.1	33.5	2.58	13.986		
800.0	799.5	798.4	794.7	1.4	1.8	81.04	28.5	-40.7	45.2	42.2	3.02	14.982		
900.0	898.7	898.0	893.0	1.6	2.1	80.96	29.7	-56.6	54.0	50.4	3.52	15.326		
1,000.0	997.5	997.6	991.3	1.9	2.4	84.04	30.9	-72.5	62.3	58.1	4.11	15.147		
1,100.0	1,095.7	1,097.1	1,089.5	2.3	2.8	88.91	32.1	-88.3	70.6	65.8	4.77	14.787		
1,200.0	1,193.9	1,196.6	1,187.7	2.6	3.1	93.10	33.3	-104.1	79.3	73.9	5.46	14.546		
1,300.0	1,292.0	1,296.0	1,285.9	2.9	3.4	96.44	34.6	-120.0	88.5	82.3	6.14	14.404		
1,400.0	1,390.2	1,395.5	1,384.1	3.3	3.7	99.16	35.8	-135.8	97.8	91.0	6.83	14.327		
1,500.0	1,488.4	1,495.0	1,482.3	3.7	4.1	101.39	37.0	-151.6	107.3	99.8	7.51	14.290		
1,600.0	1,586.5	1,594.4	1,580.5	4.0	4.4	103.27	38.2	-167.5	117.0	108.8	8.19	14.279		
1,700.0	1,684.7	1,693.9	1,678.7	4.4	4.7	104.85	39.4	-183.3	126.8	117.9	8.87	14.286		
1,800.0	1,782.9	1,793.4	1,776.9	4.8	5.0	106.21	40.6	-199.1	136.6	127.1	9.55	14.303		
1,900.0	1,881.0	1,892.8	1,875.0	5.1	5.4	107.38	41.8	-215.0	146.5	136.3	10.23	14.326		
2,000.0	1,979.2	1,992.3	1,973.2	5.5	5.7	108.41	43.0	-230.8	156.5	145.6	10.90	14.354		
2,100.0	2,077.4	2,091.8	2,071.4	5.9	6.0	109.31	44.2	-246.7	166.5	154.9	11.58	14.384		
2,200.0	2,175.5	2,191.2	2,169.6	6.3	6.4	110.11	45.4	-262.5	176.5	164.3	12.25	14.415		
2,300.0	2,273.7	2,290.7	2,267.8	6.6	6.7	110.82	46.6	-278.3	186.6	173.7	12.92	14.447		
2,400.0	2,371.9	2,390.2	2,366.0	7.0	7.0	111.46	47.8	-294.2	196.7	183.1	13.59	14.478		
2,500.0	2,470.0	2,489.6	2,464.2	7.4	7.3	112.04	49.0	-310.0	206.9	192.6	14.26	14.508		
2,600.0	2,568.2	2,589.1	2,562.4	7.8	7.7	112.56	50.2	-325.8	217.0	202.1	14.93	14.538		
2,700.0	2,666.4	2,688.6	2,660.6	8.1	8.0	113.04	51.4	-341.7	227.2	211.6	15.59	14.567		
2,800.0	2,764.5	2,788.0	2,758.7	8.5	8.3	113.48	52.7	-357.5	237.3	221.1	16.26	14.595		
2,900.0	2,862.7	2,887.5	2,856.9	8.9	8.7	113.88	53.9	-373.3	247.5	230.6	16.93	14.622		
3,000.0	2,960.9	2,987.0	2,955.1	9.3	9.0	114.25	55.1	-389.2	257.7	240.1	17.59	14.648		
3,100.0	3,059.0	3,086.4	3,053.3	9.6	9.3	114.59	56.3	-405.0	267.9	249.7	18.26	14.673		
3,200.0	3,157.2	3,185.9	3,151.5	10.0	9.6	114.90	57.5	-420.9	278.1	259.2	18.93	14.697		
3,300.0	3,255.4	3,285.3	3,249.7	10.4	10.0	115.19	58.7	-436.7	288.4	268.8	19.59	14.720		
3,400.0	3,353.5	3,384.8	3,347.9	10.8	10.3	115.47	59.9	-452.5	298.6	278.4	20.26	14.742		
3,500.0	3,451.7	3,484.3	3,446.1	11.1	10.6	115.72	61.1	-468.4	308.8	287.9	20.92	14.763		
3,600.0	3,549.9	3,583.7	3,544.3	11.5	11.0	115.96	62.3	-484.2	319.1	297.5	21.58	14.783		
3,700.0	3,648.0	3,683.2	3,642.4	11.9	11.3	116.18	63.5	-500.0	329.3	307.1	22.25	14.803		
3,800.0	3,746.2	3,782.7	3,740.6	12.3	11.6	116.40	64.7	-515.9	339.6	316.7	22.91	14.821		
3,900.0	3,844.4	3,882.1	3,838.8	12.7	12.0	116.59	65.9	-531.7	349.9	326.3	23.58	14.839		
4,000.0	3,942.5	3,981.6	3,937.0	13.0	12.3	116.78	67.1	-547.5	360.1	335.9	24.24	14.856		
4,100.0	4,040.7	4,081.1	4,035.2	13.4	12.6	116.96	68.3	-563.4	370.4	345.5	24.90	14.873		
4,200.0	4,138.9	4,180.5	4,133.4	13.8	12.9	117.12	69.5	-579.2	380.6	355.1	25.57	14.889		
4,300.0	4,237.0	4,280.0	4,231.6	14.2	13.3	117.28	70.7	-595.1	390.9	364.7	26.23	14.904		
4,400.0	4,335.2	4,379.5	4,329.8	14.6	13.6	117.43	72.0	-610.9	401.2	374.3	26.89	14.918		
4,500.0	4,433.4	4,478.9	4,428.0	14.9	13.9	117.57	73.2	-626.7	411.5	383.9	27.56	14.932		
4,600.0	4,531.5	4,578.4	4,526.2	15.3	14.3	117.71	74.4	-642.6	421.8	393.5	28.22	14.946		
4,700.0	4,629.7	4,677.9	4,624.3	15.7	14.6	117.84	75.6	-658.4	432.0	403.2	28.88	14.959		
4,800.0	4,727.9	4,777.3	4,722.5	16.1	14.9	117.96	76.8	-674.2	442.3	412.8	29.54	14.972		
4,900.0	4,826.0	4,876.8	4,820.7	16.4	15.2	118.08	78.0	-690.1	452.6	422.4	30.21	14.984		
5,000.0	4,924.2	4,976.3	4,918.9	16.8	15.6	118.19	79.2	-705.9	462.9	432.0	30.87	14.996		

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 6-34D
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 6-34D	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		
5,100.0	5,022.4	5,075.7	5,017.1	17.2	15.9	118.30	80.4	-721.7	473.2	441.7	31.53	15.007		
5,200.0	5,120.5	5,175.2	5,115.3	17.6	16.2	118.40	81.6	-737.6	483.5	451.3	32.19	15.018		
5,300.0	5,218.7	5,274.7	5,213.5	18.0	16.6	118.50	82.8	-753.4	493.8	460.9	32.86	15.028		
5,400.0	5,316.9	5,374.1	5,311.7	18.3	16.9	118.59	84.0	-769.2	504.1	470.5	33.52	15.039		
5,500.0	5,415.0	5,473.6	5,409.9	18.7	17.2	118.68	85.2	-785.1	514.4	480.2	34.18	15.049		
5,600.0	5,513.2	5,573.1	5,508.0	19.1	17.6	118.77	86.4	-800.9	524.7	489.8	34.84	15.058		
5,700.0	5,611.4	5,672.5	5,606.2	19.5	17.9	118.86	87.6	-816.8	534.9	499.4	35.50	15.067		
5,800.0	5,709.5	5,772.0	5,704.4	19.9	18.2	118.94	88.8	-832.6	545.2	509.1	36.17	15.076		
5,900.0	5,807.7	5,871.4	5,802.6	20.2	18.5	119.01	90.1	-848.4	555.5	518.7	36.83	15.085		
6,000.0	5,905.9	5,970.9	5,900.8	20.6	18.9	119.09	91.3	-864.3	565.8	528.4	37.49	15.094		
6,100.0	6,004.0	6,070.4	5,999.0	21.0	19.2	119.16	92.5	-880.1	576.1	538.0	38.15	15.102		
6,200.0	6,102.2	6,169.8	6,097.2	21.4	19.5	119.23	93.7	-895.9	586.5	547.6	38.81	15.110		
6,300.0	6,200.4	6,269.3	6,195.4	21.8	19.9	119.30	94.9	-911.8	596.8	557.3	39.47	15.118		
6,400.0	6,298.5	6,368.8	6,293.6	22.1	20.2	119.36	96.1	-927.6	607.1	566.9	40.14	15.125		
6,500.0	6,396.7	6,468.2	6,391.7	22.5	20.5	119.43	97.3	-943.4	617.4	576.6	40.80	15.132		
6,600.0	6,494.9	6,567.7	6,489.9	22.9	20.9	119.49	98.5	-959.3	627.7	586.2	41.46	15.139		
6,700.0	6,593.0	6,667.2	6,588.1	23.3	21.2	119.54	99.7	-975.1	638.0	595.9	42.12	15.146		
6,800.0	6,691.2	6,766.6	6,686.3	23.7	21.5	119.63	100.9	-991.0	648.3	605.5	42.78	15.152		
6,900.0	6,789.8	6,866.2	6,784.6	24.0	21.8	119.66	102.1	-1,006.8	657.4	614.0	43.43	15.138		
7,000.0	6,888.9	6,966.8	6,884.0	24.2	22.1	119.48	103.3	-1,021.9	664.8	620.7	44.01	15.104		
7,100.0	6,988.4	7,067.9	6,984.5	24.4	22.4	119.30	104.2	-1,033.7	670.2	625.8	44.49	15.064		
7,200.0	7,088.2	7,169.3	7,085.5	24.6	22.6	119.14	104.8	-1,041.9	673.8	629.0	44.87	15.017		
7,300.0	7,188.2	7,270.8	7,186.9	24.7	22.7	118.98	105.2	-1,046.6	675.5	630.4	45.14	14.963		
7,400.0	7,288.2	7,372.4	7,288.5	24.8	22.8	120.45	105.2	-1,047.8	675.7	630.3	45.36	14.896		
7,500.0	7,388.2	7,473.9	7,390.0	24.9	22.9	120.47	105.1	-1,048.1	675.8	630.2	45.58	14.828		
7,600.0	7,488.2	7,575.4	7,491.5	25.0	23.0	120.49	104.7	-1,048.7	675.9	630.1	45.80	14.757		
7,700.0	7,588.2	7,676.9	7,593.0	25.1	23.2	120.50	104.1	-1,049.8	676.0	630.0	46.04	14.682		
7,800.0	7,688.1	7,777.4	7,693.5	25.2	23.3	120.50	103.3	-1,051.1	676.0	629.8	46.28	14.606		
7,900.0	7,788.1	7,877.4	7,793.5	25.4	23.4	120.50	102.6	-1,052.5	676.0	629.5	46.53	14.530		
8,000.0	7,888.1	7,977.4	7,893.4	25.5	23.5	120.50	101.8	-1,053.8	676.0	629.3	46.77	14.454		
8,100.0	7,988.1	8,077.4	7,993.4	25.6	23.6	120.50	101.0	-1,055.2	676.0	629.0	47.02	14.379		
8,200.0	8,088.1	8,177.4	8,093.4	25.7	23.8	120.50	100.2	-1,056.5	676.0	628.8	47.26	14.304		
8,300.0	8,188.1	8,277.4	8,193.4	25.8	23.9	120.50	99.4	-1,057.9	676.0	628.5	47.51	14.229		
8,400.0	8,288.1	8,377.4	8,293.4	25.9	24.0	120.50	98.7	-1,059.2	676.0	628.3	47.76	14.155		
8,500.0	8,388.1	8,477.4	8,393.4	26.1	24.1	120.50	97.9	-1,060.5	676.0	628.0	48.01	14.081		
8,600.0	8,488.0	8,577.4	8,493.4	26.2	24.3	120.50	97.1	-1,061.9	676.0	627.8	48.26	14.007		
8,700.0	8,588.0	8,677.4	8,593.4	26.3	24.4	120.50	96.3	-1,063.2	676.1	627.5	48.52	13.934		
8,800.0	8,688.0	8,777.4	8,693.4	26.4	24.5	120.50	95.6	-1,064.6	676.1	627.3	48.77	13.862		
8,900.0	8,788.0	8,877.4	8,793.3	26.6	24.6	120.50	94.8	-1,065.9	676.1	627.0	49.03	13.789		
9,000.0	8,888.0	8,977.4	8,893.3	26.7	24.8	120.50	94.0	-1,067.3	676.1	626.8	49.28	13.717		
9,100.0	8,988.0	9,077.4	8,993.3	26.8	24.9	120.50	93.2	-1,068.6	676.1	626.5	49.54	13.646		
9,200.0	9,088.0	9,177.4	9,093.3	26.9	25.0	120.50	92.5	-1,070.0	676.1	626.3	49.80	13.575		
9,300.0	9,188.0	9,277.4	9,193.3	27.1	25.2	120.50	91.7	-1,071.3	676.1	626.0	50.06	13.505		
9,400.0	9,287.9	9,377.4	9,293.3	27.2	25.3	120.50	90.9	-1,072.7	676.1	625.7	50.32	13.434		
9,500.0	9,387.9	9,477.4	9,393.3	27.3	25.4	120.50	90.1	-1,074.0	676.1	625.5	50.59	13.365		
9,600.0	9,487.9	9,577.4	9,493.3	27.4	25.5	120.50	89.3	-1,075.4	676.1	625.2	50.85	13.295		
9,700.0	9,587.9	9,677.4	9,593.2	27.6	25.7	120.50	88.6	-1,076.7	676.1	625.0	51.11	13.227		
9,800.0	9,687.9	9,777.4	9,693.2	27.7	25.8	120.50	87.8	-1,078.0	676.1	624.7	51.38	13.158		
9,900.0	9,787.9	9,877.4	9,793.2	27.8	25.9	120.50	87.0	-1,079.4	676.1	624.4	51.65	13.090		
10,000.0	9,887.9	9,977.4	9,893.2	28.0	26.1	120.50	86.2	-1,080.7	676.1	624.2	51.91	13.023		
10,081.1	9,969.0	10,058.5	9,974.3	28.1	26.2	120.50	85.6	-1,081.8	676.1	623.9	52.13	12.968 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 6-34D
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 6-34D	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			
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	165.604		
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		
300.0	300.0	300.0	300.0	0.5	0.5	36.89	36.1	27.1	45.1	44.1	0.97	46.464		
400.0	400.0	400.4	400.4	0.7	0.7	34.73	36.7	25.4	44.6	43.3	1.32	33.751		
500.0	500.0	500.6	500.4	0.8	0.9	28.03	38.4	20.5	43.5	41.9	1.68	25.970		
527.7	527.7	528.3	528.1	0.9	0.9	143.86	39.1	18.5	43.4	41.6	1.80	24.137 CC, ES		
600.0	600.0	600.4	599.8	1.0	1.1	136.52	41.4	12.3	44.4	42.3	2.08	21.320		
700.0	699.8	699.7	698.4	1.2	1.3	126.45	45.5	0.9	49.3	46.8	2.52	19.608		
800.0	799.5	798.5	796.0	1.4	1.6	118.15	50.7	-13.6	58.3	55.3	3.00	19.428		
900.0	898.7	897.6	893.5	1.6	2.0	113.11	56.6	-30.1	70.3	66.8	3.52	20.000		
1,000.0	997.5	996.6	991.0	1.9	2.3	111.69	62.6	-46.6	84.0	79.9	4.09	20.548		
1,100.0	1,095.7	1,095.5	1,088.3	2.3	2.6	112.38	68.5	-63.1	98.8	94.1	4.70	21.001		
1,200.0	1,193.9	1,194.4	1,185.6	2.6	3.0	113.19	74.4	-79.6	113.7	108.4	5.34	21.304		
1,300.0	1,292.0	1,293.2	1,282.9	2.9	3.3	113.82	80.4	-96.0	128.7	122.7	5.98	21.506		
1,400.0	1,390.2	1,392.1	1,380.2	3.3	3.7	114.31	86.3	-112.5	143.7	137.1	6.64	21.647		
1,500.0	1,488.4	1,491.0	1,477.5	3.7	4.0	114.71	92.2	-129.0	158.7	151.4	7.30	21.749		
1,600.0	1,586.5	1,589.8	1,574.8	4.0	4.4	115.04	98.2	-145.4	173.7	165.7	7.96	21.823		
1,700.0	1,684.7	1,688.7	1,672.1	4.4	4.7	115.32	104.1	-161.9	188.7	180.1	8.62	21.879		
1,800.0	1,782.9	1,787.5	1,769.4	4.8	5.1	115.56	110.0	-178.4	203.7	194.4	9.29	21.923		
1,900.0	1,881.0	1,886.4	1,866.7	5.1	5.4	115.76	115.9	-194.9	218.7	208.8	9.96	21.956		
2,000.0	1,979.2	1,985.3	1,964.0	5.5	5.8	115.94	121.9	-211.3	233.8	223.1	10.63	21.983		
2,100.0	2,077.4	2,084.1	2,061.3	5.9	6.1	116.10	127.8	-227.8	248.8	237.5	11.31	22.005		
2,200.0	2,175.5	2,183.0	2,158.6	6.3	6.5	116.24	133.7	-244.3	263.8	251.8	11.98	22.022		
2,300.0	2,273.7	2,281.9	2,255.9	6.6	6.8	116.36	139.7	-260.7	278.8	266.2	12.65	22.036		
2,400.0	2,371.9	2,380.7	2,353.2	7.0	7.2	116.48	145.6	-277.2	293.8	280.5	13.33	22.048		
2,500.0	2,470.0	2,479.6	2,450.5	7.4	7.5	116.58	151.5	-293.7	308.9	294.9	14.00	22.058		
2,600.0	2,568.2	2,578.5	2,547.8	7.8	7.9	116.67	157.4	-310.2	323.9	309.2	14.68	22.066		
2,700.0	2,666.4	2,677.3	2,645.1	8.1	8.2	116.75	163.4	-326.6	338.9	323.6	15.35	22.073		
2,800.0	2,764.5	2,776.2	2,742.4	8.5	8.6	116.83	169.3	-343.1	354.0	337.9	16.03	22.079		
2,900.0	2,862.7	2,875.0	2,839.7	8.9	8.9	116.90	175.2	-359.6	369.0	352.3	16.71	22.084		
3,000.0	2,960.9	2,973.9	2,937.0	9.3	9.3	116.96	181.2	-376.0	384.0	366.6	17.39	22.088		
3,100.0	3,059.0	3,072.8	3,034.3	9.6	9.6	117.02	187.1	-392.5	399.0	381.0	18.06	22.092		
3,200.0	3,157.2	3,171.6	3,131.6	10.0	10.0	117.08	193.0	-409.0	414.1	395.3	18.74	22.095		
3,300.0	3,255.4	3,270.5	3,228.9	10.4	10.4	117.13	198.9	-425.4	429.1	409.7	19.42	22.098		
3,400.0	3,353.5	3,369.4	3,326.2	10.8	10.7	117.18	204.9	-441.9	444.1	424.0	20.10	22.100		
3,500.0	3,451.7	3,468.2	3,423.5	11.1	11.1	117.22	210.8	-458.4	459.2	438.4	20.77	22.102		
3,600.0	3,549.9	3,567.1	3,520.8	11.5	11.4	117.26	216.7	-474.9	474.2	452.7	21.45	22.104		
3,700.0	3,648.0	3,666.0	3,618.1	11.9	11.8	117.30	222.7	-491.3	489.2	467.1	22.13	22.106		
3,800.0	3,746.2	3,764.8	3,715.4	12.3	12.1	117.34	228.6	-507.8	504.3	481.4	22.81	22.107		
3,900.0	3,844.4	3,863.7	3,812.7	12.7	12.5	117.37	234.5	-524.3	519.3	495.8	23.49	22.108		
4,000.0	3,942.5	3,962.5	3,910.0	13.0	12.8	117.41	240.4	-540.7	534.3	510.1	24.17	22.109		
4,100.0	4,040.7	4,061.4	4,007.3	13.4	13.2	117.44	246.4	-557.2	549.3	524.5	24.85	22.110		
4,200.0	4,138.9	4,160.3	4,104.6	13.8	13.5	117.47	252.3	-573.7	564.4	538.9	25.53	22.111		
4,300.0	4,237.0	4,259.1	4,201.9	14.2	13.9	117.50	258.2	-590.2	579.4	553.2	26.20	22.111		
4,400.0	4,335.2	4,358.0	4,299.2	14.6	14.2	117.52	264.2	-606.6	594.4	567.6	26.88	22.112		
4,500.0	4,433.4	4,456.9	4,396.5	14.9	14.6	117.55	270.1	-623.1	609.5	581.9	27.56	22.113		
4,600.0	4,531.5	4,555.7	4,493.8	15.3	15.0	117.57	276.0	-639.6	624.5	596.3	28.24	22.113		
4,700.0	4,629.7	4,654.6	4,591.1	15.7	15.3	117.59	281.9	-656.0	639.5	610.6	28.92	22.113		
4,800.0	4,727.9	4,753.4	4,688.4	16.1	15.7	117.62	287.9	-672.5	654.6	625.0	29.60	22.114		
4,900.0	4,826.0	4,852.3	4,785.8	16.4	16.0	117.64	293.8	-689.0	669.6	639.3	30.28	22.114		
5,000.0	4,924.2	4,951.2	4,883.1	16.8	16.4	117.66	299.7	-705.4	684.6	653.7	30.96	22.114		

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 6-34D
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 6-34D	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	5,022.4	5,050.0	4,980.4	17.2	16.7	117.68	305.7	-721.9	699.7	668.0	31.64	22.114		
5,200.0	5,120.5	5,148.9	5,077.7	17.6	17.1	117.69	311.6	-738.4	714.7	682.4	32.32	22.115		
5,300.0	5,218.7	5,247.8	5,175.0	18.0	17.4	117.71	317.5	-754.9	729.7	696.7	33.00	22.115		
5,400.0	5,316.9	5,346.6	5,272.3	18.3	17.8	117.73	323.4	-771.3	744.8	711.1	33.68	22.115		
5,500.0	5,415.0	5,445.5	5,369.6	18.7	18.1	117.74	329.4	-787.8	759.8	725.5	34.36	22.115		
5,600.0	5,513.2	5,544.4	5,466.9	19.1	18.5	117.76	335.3	-804.3	774.8	739.8	35.04	22.115		
5,700.0	5,611.4	5,643.2	5,564.2	19.5	18.9	117.77	341.2	-820.7	789.9	754.2	35.72	22.115		
5,800.0	5,709.5	5,742.1	5,661.5	19.9	19.2	117.79	347.2	-837.2	804.9	768.5	36.40	22.115		
5,900.0	5,807.7	5,840.9	5,758.8	20.2	19.6	117.80	353.1	-853.7	819.9	782.9	37.08	22.115		
6,000.0	5,905.9	5,939.8	5,856.1	20.6	19.9	117.82	359.0	-870.2	835.0	797.2	37.76	22.115		
6,100.0	6,004.0	6,038.7	5,953.4	21.0	20.3	117.83	365.0	-886.6	850.0	811.6	38.44	22.115		
6,200.0	6,102.2	6,137.5	6,050.7	21.4	20.6	117.84	370.9	-903.1	865.0	825.9	39.12	22.115		
6,300.0	6,200.4	6,236.4	6,148.0	21.8	21.0	117.85	376.8	-919.6	880.1	840.3	39.80	22.115		
6,400.0	6,298.5	6,335.3	6,245.3	22.1	21.3	117.87	382.7	-936.0	895.1	854.6	40.48	22.115		
6,500.0	6,396.7	6,434.1	6,342.6	22.5	21.7	117.88	388.7	-952.5	910.1	869.0	41.16	22.115		
6,600.0	6,494.9	6,533.0	6,439.9	22.9	22.0	117.89	394.6	-969.0	925.2	883.3	41.84	22.115		
6,700.0	6,593.0	6,631.9	6,537.2	23.3	22.4	117.90	400.5	-985.4	940.2	897.7	42.52	22.115		
6,800.0	6,691.2	6,730.7	6,634.5	23.7	22.7	117.95	406.5	-1,001.9	955.2	912.0	43.20	22.111		
6,900.0	6,789.8	6,829.7	6,731.9	24.0	23.1	118.09	412.4	-1,018.4	969.1	925.3	43.86	22.094		
7,000.0	6,888.9	6,934.6	6,835.2	24.2	23.5	118.01	418.5	-1,035.5	981.3	936.8	44.48	22.060		
7,100.0	6,988.4	7,047.4	6,946.9	24.4	23.8	117.88	423.9	-1,050.4	990.8	945.8	45.01	22.011		
7,200.0	7,088.2	7,160.8	7,059.7	24.6	24.0	117.73	427.8	-1,061.3	997.3	951.8	45.43	21.953		
7,300.0	7,188.2	7,274.6	7,173.3	24.7	24.2	117.58	430.2	-1,067.9	1,000.7	955.0	45.73	21.885		
7,400.0	7,288.2	7,388.7	7,287.3	24.8	24.3	119.02	431.1	-1,070.3	1,001.7	955.7	45.95	21.797		
7,500.0	7,388.2	7,491.5	7,390.2	24.9	24.4	119.04	431.0	-1,070.5	1,001.8	955.6	46.17	21.700		
7,600.0	7,488.2	7,593.6	7,492.3	25.0	24.5	119.05	430.6	-1,071.0	1,002.0	955.6	46.39	21.598		
7,700.0	7,588.2	7,695.8	7,594.4	25.1	24.6	119.07	430.1	-1,072.0	1,002.1	955.5	46.63	21.492		
7,800.0	7,688.1	7,796.9	7,695.5	25.2	24.7	119.07	429.4	-1,073.3	1,002.2	955.3	46.87	21.382		
7,900.0	7,788.1	7,896.9	7,795.5	25.4	24.8	119.07	428.6	-1,074.7	1,002.2	955.1	47.11	21.273		
8,000.0	7,888.1	7,996.9	7,895.5	25.5	25.0	119.07	427.9	-1,076.0	1,002.2	954.9	47.35	21.165		
8,100.0	7,988.1	8,096.9	7,995.5	25.6	25.1	119.07	427.1	-1,077.4	1,002.3	954.7	47.60	21.057		
8,200.0	8,088.1	8,196.9	8,095.4	25.7	25.2	119.07	426.3	-1,078.7	1,002.3	954.4	47.84	20.949		
8,300.0	8,188.1	8,296.9	8,195.4	25.8	25.3	119.07	425.6	-1,080.0	1,002.3	954.2	48.09	20.842		
8,400.0	8,288.1	8,396.9	8,295.4	25.9	25.4	119.07	424.8	-1,081.4	1,002.3	954.0	48.34	20.736		
8,500.0	8,388.1	8,496.9	8,395.4	26.1	25.5	119.07	424.1	-1,082.7	1,002.3	953.8	48.59	20.630		
8,600.0	8,488.0	8,596.9	8,495.4	26.2	25.6	119.07	423.3	-1,084.1	1,002.4	953.5	48.84	20.525		
8,700.0	8,588.0	8,696.9	8,595.4	26.3	25.8	119.07	422.6	-1,085.4	1,002.4	953.3	49.09	20.420		
8,800.0	8,688.0	8,796.9	8,695.4	26.4	25.9	119.07	421.8	-1,086.8	1,002.4	953.1	49.34	20.316		
8,900.0	8,788.0	8,896.9	8,795.4	26.6	26.0	119.07	421.1	-1,088.1	1,002.4	952.8	49.60	20.212		
9,000.0	8,888.0	8,996.9	8,895.3	26.7	26.1	119.07	420.3	-1,089.5	1,002.5	952.6	49.85	20.109		
9,100.0	8,988.0	9,096.9	8,995.3	26.8	26.2	119.07	419.6	-1,090.8	1,002.5	952.4	50.11	20.006		
9,200.0	9,088.0	9,196.9	9,095.3	26.9	26.3	119.07	418.8	-1,092.2	1,002.5	952.1	50.37	19.905		
9,300.0	9,188.0	9,296.9	9,195.3	27.1	26.5	119.07	418.0	-1,093.5	1,002.5	951.9	50.62	19.803		
9,400.0	9,287.9	9,396.9	9,295.3	27.2	26.6	119.07	417.3	-1,094.9	1,002.6	951.7	50.88	19.702		
9,500.0	9,387.9	9,496.9	9,395.3	27.3	26.7	119.07	416.5	-1,096.2	1,002.6	951.4	51.15	19.602		
9,600.0	9,487.9	9,596.9	9,495.3	27.4	26.8	119.07	415.8	-1,097.6	1,002.6	951.2	51.41	19.503		
9,700.0	9,587.9	9,696.9	9,595.3	27.6	27.0	119.07	415.0	-1,098.9	1,002.6	951.0	51.67	19.404		
9,800.0	9,687.9	9,796.9	9,695.3	27.7	27.1	119.07	414.3	-1,100.3	1,002.6	950.7	51.94	19.306		
9,900.0	9,787.9	9,896.9	9,795.2	27.8	27.2	119.07	413.5	-1,101.6	1,002.7	950.5	52.20	19.208		
10,000.0	9,887.9	9,996.9	9,895.2	28.0	27.3	119.07	412.8	-1,103.0	1,002.7	950.2	52.47	19.111		
10,081.1	9,969.0	10,078.0	9,976.4	28.1	27.4	119.07	412.1	-1,104.1	1,002.7	950.0	52.68	19.033 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 6-34D
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 6-34D	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 6-38D - 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		
0.0	0.0	0.0	0.0	0.0	0.0	36.68	48.1	35.8	60.0					
100.0	100.0	100.0	100.0	0.1	0.1	36.68	48.1	35.8	60.0	59.7	0.27	220.185		
200.0	200.0	200.0	200.0	0.3	0.3	36.68	48.1	35.8	60.0	59.3	0.62	96.485		
285.4	285.4	285.4	285.4	0.5	0.5	35.46	48.8	34.8	59.9	59.0	0.92	65.118 CC		
300.0	300.0	300.0	300.0	0.5	0.5	35.01	49.1	34.4	59.9	59.0	0.97	61.712		
400.0	400.0	399.8	399.6	0.7	0.7	30.04	52.1	30.1	60.2	58.9	1.32	45.509 ES		
500.0	500.0	499.0	498.5	0.8	0.9	22.02	57.1	23.1	61.6	60.0	1.67	36.861		
600.0	600.0	597.7	596.4	1.0	1.2	131.27	64.1	13.4	66.7	64.5	2.16	30.889		
700.0	699.8	695.6	693.1	1.2	1.5	123.41	72.9	1.0	76.8	74.2	2.60	29.543 SF		
800.0	799.5	793.8	789.7	1.4	1.8	117.91	83.2	-13.5	91.2	88.1	3.06	29.801		
900.0	898.7	892.4	886.6	1.6	2.2	115.42	93.7	-28.2	107.7	104.1	3.56	30.272		
1,000.0	997.5	990.7	983.3	1.9	2.5	114.95	104.1	-42.9	125.7	121.6	4.11	30.622		
1,100.0	1,095.7	1,088.8	1,079.7	2.3	2.9	115.79	114.5	-57.5	145.0	140.3	4.70	30.860		
1,200.0	1,193.9	1,186.8	1,176.1	2.6	3.2	116.70	124.9	-72.1	164.6	159.3	5.31	30.971		
1,300.0	1,292.0	1,284.9	1,272.5	2.9	3.6	117.41	135.3	-86.7	184.1	178.2	5.94	31.018		
1,400.0	1,390.2	1,382.9	1,368.9	3.3	3.9	117.99	145.7	-101.3	203.7	197.2	6.57	31.031		
1,500.0	1,488.4	1,481.0	1,465.3	3.7	4.3	118.47	156.1	-116.0	223.3	216.1	7.20	31.025		
1,600.0	1,586.5	1,579.0	1,561.7	4.0	4.6	118.87	166.5	-130.6	243.0	235.1	7.83	31.010		
1,700.0	1,684.7	1,677.1	1,658.1	4.4	5.0	119.21	177.0	-145.2	262.6	254.1	8.47	30.989		
1,800.0	1,782.9	1,775.1	1,754.4	4.8	5.3	119.50	187.4	-159.8	282.2	273.1	9.11	30.967		
1,900.0	1,881.0	1,873.1	1,850.8	5.1	5.7	119.75	197.8	-174.4	301.9	292.1	9.76	30.943		
2,000.0	1,979.2	1,971.2	1,947.2	5.5	6.1	119.98	208.2	-189.0	321.5	311.1	10.40	30.919		
2,100.0	2,077.4	2,069.2	2,043.6	5.9	6.4	120.17	218.6	-203.6	341.2	330.1	11.04	30.896		
2,200.0	2,175.5	2,167.3	2,140.0	6.3	6.8	120.35	229.0	-218.3	360.8	349.1	11.69	30.874		
2,300.0	2,273.7	2,265.3	2,236.4	6.6	7.1	120.51	239.4	-232.9	380.5	368.1	12.33	30.853		
2,400.0	2,371.9	2,363.4	2,332.8	7.0	7.5	120.65	249.8	-247.5	400.1	387.1	12.98	30.833		
2,500.0	2,470.0	2,461.4	2,429.2	7.4	7.9	120.78	260.2	-262.1	419.8	406.2	13.62	30.813		
2,600.0	2,568.2	2,559.5	2,525.5	7.8	8.2	120.90	270.6	-276.7	439.5	425.2	14.27	30.795		
2,700.0	2,666.4	2,657.5	2,621.9	8.1	8.6	121.00	281.0	-291.3	459.1	444.2	14.92	30.778		
2,800.0	2,764.5	2,755.5	2,718.3	8.5	8.9	121.10	291.4	-305.9	478.8	463.2	15.56	30.762		
2,900.0	2,862.7	2,853.6	2,814.7	8.9	9.3	121.19	301.8	-320.6	498.5	482.2	16.21	30.747		
3,000.0	2,960.9	2,951.6	2,911.1	9.3	9.7	121.28	312.2	-335.2	518.1	501.3	16.86	30.733		
3,100.0	3,059.0	3,049.7	3,007.5	9.6	10.0	121.35	322.6	-349.8	537.8	520.3	17.51	30.719		
3,200.0	3,157.2	3,147.7	3,103.9	10.0	10.4	121.43	333.0	-364.4	557.5	539.3	18.15	30.707		
3,300.0	3,255.4	3,245.8	3,200.3	10.4	10.7	121.49	343.4	-379.0	577.1	558.3	18.80	30.695		
3,400.0	3,353.5	3,343.8	3,296.7	10.8	11.1	121.56	353.9	-393.6	596.8	577.4	19.45	30.683		
3,500.0	3,451.7	3,441.8	3,393.0	11.1	11.4	121.62	364.3	-408.2	616.5	596.4	20.10	30.672		
3,600.0	3,549.9	3,539.9	3,489.4	11.5	11.8	121.67	374.7	-422.9	636.2	615.4	20.75	30.662		
3,700.0	3,648.0	3,637.9	3,585.8	11.9	12.2	121.72	385.1	-437.5	655.8	634.4	21.40	30.652		
3,800.0	3,746.2	3,736.0	3,682.2	12.3	12.5	121.77	395.5	-452.1	675.5	653.5	22.04	30.643		
3,900.0	3,844.4	3,834.0	3,778.6	12.7	12.9	121.82	405.9	-466.7	695.2	672.5	22.69	30.634		
4,000.0	3,942.5	3,932.1	3,875.0	13.0	13.2	121.86	416.3	-481.3	714.9	691.5	23.34	30.625		
4,100.0	4,040.7	4,030.1	3,971.4	13.4	13.6	121.90	426.7	-495.9	734.5	710.5	23.99	30.617		
4,200.0	4,138.9	4,128.2	4,067.8	13.8	14.0	121.94	437.1	-510.5	754.2	729.6	24.64	30.609		
4,300.0	4,237.0	4,226.2	4,164.1	14.2	14.3	121.98	447.5	-525.2	773.9	748.6	25.29	30.602		
4,400.0	4,335.2	4,324.2	4,260.5	14.6	14.7	122.01	457.9	-539.8	793.6	767.6	25.94	30.595		
4,500.0	4,433.4	4,422.3	4,356.9	14.9	15.0	122.05	468.3	-554.4	813.2	786.7	26.59	30.588		
4,600.0	4,531.5	4,520.3	4,453.3	15.3	15.4	122.08	478.7	-569.0	832.9	805.7	27.24	30.582		
4,700.0	4,629.7	4,618.4	4,549.7	15.7	15.8	122.11	489.1	-583.6	852.6	824.7	27.88	30.575		
4,800.0	4,727.9	4,716.4	4,646.1	16.1	16.1	122.14	499.5	-598.2	872.3	843.7	28.53	30.569		
4,900.0	4,826.0	4,814.5	4,742.5	16.4	16.5	122.17	509.9	-612.8	892.0	862.8	29.18	30.564		
5,000.0	4,924.2	4,912.5	4,838.9	16.8	16.8	122.19	520.4	-627.5	911.6	881.8	29.83	30.558		

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 6-34D
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 6-34D	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						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		
5,100.0	5,022.4	5,010.5	4,935.3	17.2	17.2	122.22	530.8	-642.1	931.3	900.8	30.48	30.553		
5,200.0	5,120.5	5,108.6	5,031.6	17.6	17.6	122.24	541.2	-656.7	951.0	919.9	31.13	30.548		
5,300.0	5,218.7	5,206.6	5,128.0	18.0	17.9	122.27	551.6	-671.3	970.7	938.9	31.78	30.543		
5,400.0	5,316.9	5,304.7	5,224.4	18.3	18.3	122.29	562.0	-685.9	990.3	957.9	32.43	30.538		
5,500.0	5,415.0	5,402.7	5,320.8	18.7	18.6	122.31	572.4	-700.5	1,010.0	976.9	33.08	30.534		
5,600.0	5,513.2	5,500.8	5,417.2	19.1	19.0	122.33	582.8	-715.1	1,029.7	996.0	33.73	30.529		
5,700.0	5,611.4	5,598.8	5,513.6	19.5	19.4	122.35	593.2	-729.8	1,049.4	1,015.0	34.38	30.525		
5,800.0	5,709.5	5,696.9	5,610.0	19.9	19.7	122.37	603.6	-744.4	1,069.1	1,034.0	35.03	30.521		
5,900.0	5,807.7	5,794.9	5,706.4	20.2	20.1	122.39	614.0	-759.0	1,088.7	1,053.1	35.68	30.517		
6,000.0	5,905.9	5,892.9	5,802.8	20.6	20.4	122.41	624.4	-773.6	1,108.4	1,072.1	36.33	30.513		
6,100.0	6,004.0	5,991.0	5,899.1	21.0	20.8	122.43	634.8	-788.2	1,128.1	1,091.1	36.98	30.509		
6,200.0	6,102.2	6,089.0	5,995.5	21.4	21.2	122.44	645.2	-802.8	1,147.8	1,110.2	37.63	30.506		
6,300.0	6,200.4	6,187.1	6,091.9	21.8	21.5	122.46	655.6	-817.4	1,167.5	1,129.2	38.27	30.502		
6,400.0	6,298.5	6,285.1	6,188.3	22.1	21.9	122.47	666.0	-832.1	1,187.1	1,148.2	38.92	30.499		
6,500.0	6,396.7	6,383.2	6,284.7	22.5	22.2	122.49	676.4	-846.7	1,206.8	1,167.3	39.57	30.495		

Cathedral Energy Services

Anticollision Report

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Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 6-34D	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 6-34D
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.67°

