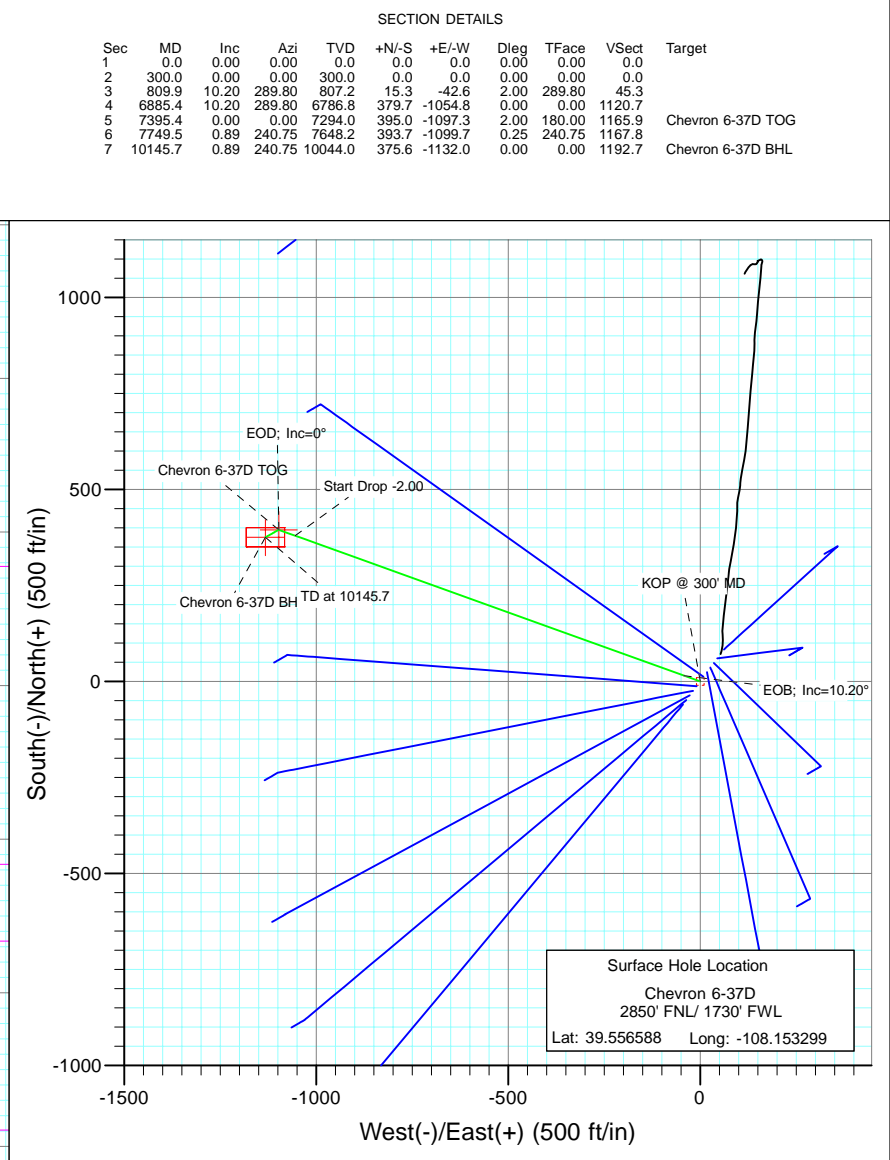
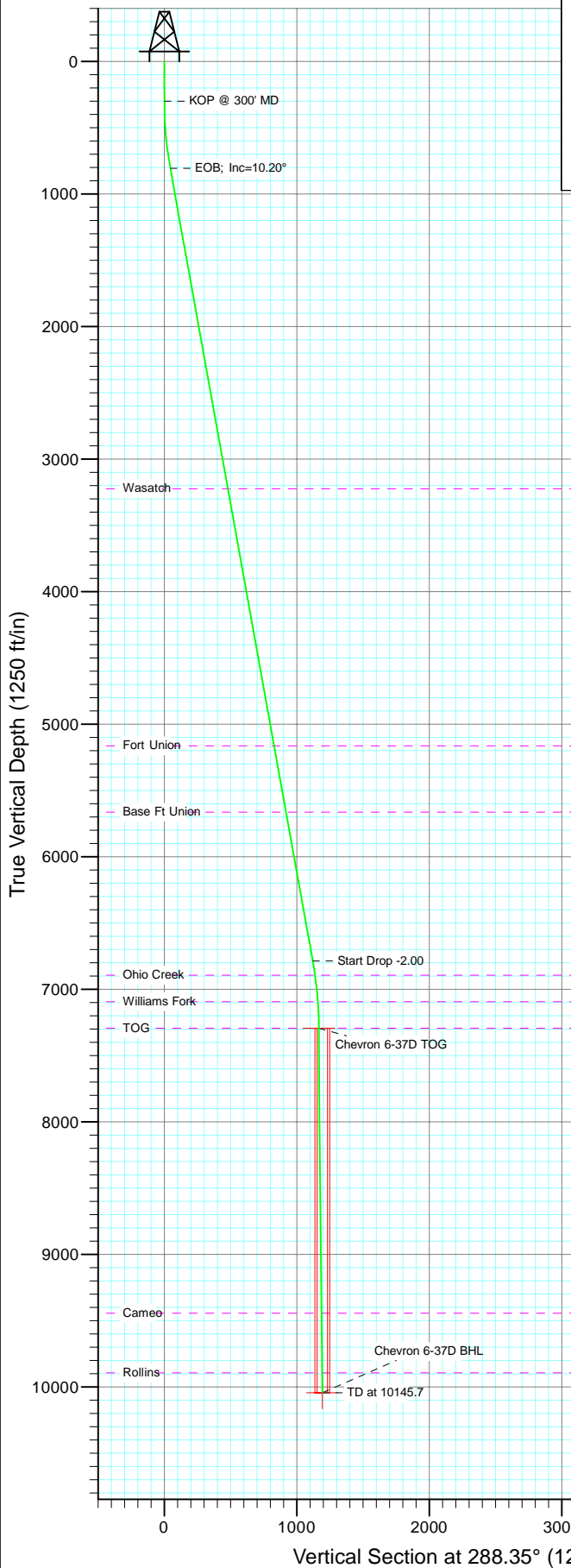




Project: Garfield County
Site: Sec 6 T6S R96W (F06 696)
Well: Chevron 6-37D
Wellbore: DD
Design: Plan #2



Bottom Hole Location
Chevron 6-37D
2472' FNL/ 620' FWL
Lat : 39.557619
Long. : -108.157314

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3224.0	3265.5	Wasatch
5164.0	5236.6	Fort Union
5664.0	5744.7	Base Ft Union
6894.0	6994.1	Ohio Creek
7094.0	7195.2	Williams Fork
7294.0	7395.4	TOG
9444.0	9545.6	Cameo
9894.0	9995.7	Rollins

DESIGN DETAILS: Plan #2

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

Target	Azimuth	Origin	N/S	E/W	From TVD
Chevron 6-37D BHL	288.35	Slot	0.0	0.0	0.0

Compass and Magnetic Data

↑ T
M
A

Azimuths to True North
Magnetic North: 10.61°

Magnetic Field
Strength: 52427.0snT
Dip Angle: 65.81°
Date: 12/2/2009
Model: IGRF200510

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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 6-37D					
Well Position	+N/-S	0.0 ft	Northing:	1,638,543.02 ft	Latitude:	39.556588
	+E/-W	0.0 ft	Easting:	2,251,993.18 ft	Longitude:	-108.153299
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	288.35

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
809.9	10.20	289.80	807.2	15.3	-42.6	2.00	2.00	0.00	289.80	
6,885.4	10.20	289.80	6,786.8	379.7	-1,054.8	0.00	0.00	0.00	0.00	
7,395.4	0.00	0.00	7,294.0	395.0	-1,097.3	2.00	-2.00	0.00	180.00	Chevron 6-37D TOG
7,749.5	0.89	240.75	7,648.2	393.7	-1,099.7	0.25	0.25	-33.67	240.75	
10,145.7	0.89	240.75	10,044.0	375.6	-1,132.0	0.00	0.00	0.00	0.00	Chevron 6-37D BHL

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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	KOP @ 300' MD
330.0	0.60	289.80	330.0	0.1	-0.1	0.2	2.00	2.00	
360.0	1.20	289.80	360.0	0.2	-0.6	0.6	2.00	2.00	
390.0	1.80	289.80	390.0	0.5	-1.3	1.4	2.00	2.00	
420.0	2.40	289.80	420.0	0.9	-2.4	2.5	2.00	2.00	
450.0	3.00	289.80	449.9	1.3	-3.7	3.9	2.00	2.00	
480.0	3.60	289.80	479.9	1.9	-5.3	5.7	2.00	2.00	
510.0	4.20	289.80	509.8	2.6	-7.2	7.7	2.00	2.00	
540.0	4.80	289.80	539.7	3.4	-9.5	10.0	2.00	2.00	
570.0	5.40	289.80	569.6	4.3	-12.0	12.7	2.00	2.00	
600.0	6.00	289.80	599.5	5.3	-14.8	15.7	2.00	2.00	
630.0	6.60	289.80	629.3	6.4	-17.9	19.0	2.00	2.00	
660.0	7.20	289.80	659.1	7.7	-21.3	22.6	2.00	2.00	
690.0	7.80	289.80	688.8	9.0	-24.9	26.5	2.00	2.00	
720.0	8.40	289.80	718.5	10.4	-28.9	30.7	2.00	2.00	
750.0	9.00	289.80	748.2	11.9	-33.2	35.3	2.00	2.00	
780.0	9.60	289.80	777.8	13.6	-37.7	40.1	2.00	2.00	
809.9	10.20	289.80	807.2	15.3	-42.6	45.3	2.00	2.00	EOB; Inc=10.20°
810.0	10.20	289.80	807.3	15.3	-42.6	45.3	0.00	0.00	
840.0	10.20	289.80	836.8	17.1	-47.6	50.6	0.00	0.00	
870.0	10.20	289.80	866.4	18.9	-52.6	55.9	0.00	0.00	
900.0	10.20	289.80	895.9	20.7	-57.6	61.2	0.00	0.00	
930.0	10.20	289.80	925.4	22.5	-62.6	66.5	0.00	0.00	
960.0	10.20	289.80	954.9	24.3	-67.6	71.8	0.00	0.00	
990.0	10.20	289.80	984.5	26.1	-72.6	77.1	0.00	0.00	
1,020.0	10.20	289.80	1,014.0	27.9	-77.6	82.4	0.00	0.00	
1,050.0	10.20	289.80	1,043.5	29.7	-82.6	87.7	0.00	0.00	
1,080.0	10.20	289.80	1,073.0	31.5	-87.6	93.1	0.00	0.00	
1,110.0	10.20	289.80	1,102.6	33.3	-92.6	98.4	0.00	0.00	
1,140.0	10.20	289.80	1,132.1	35.1	-97.6	103.7	0.00	0.00	
1,170.0	10.20	289.80	1,161.6	36.9	-102.6	109.0	0.00	0.00	
1,200.0	10.20	289.80	1,191.1	38.7	-107.6	114.3	0.00	0.00	
1,230.0	10.20	289.80	1,220.7	40.5	-112.6	119.6	0.00	0.00	
1,260.0	10.20	289.80	1,250.2	42.3	-117.6	124.9	0.00	0.00	
1,290.0	10.20	289.80	1,279.7	44.1	-122.6	130.2	0.00	0.00	
1,320.0	10.20	289.80	1,309.3	45.9	-127.6	135.5	0.00	0.00	
1,350.0	10.20	289.80	1,338.8	47.7	-132.6	140.8	0.00	0.00	
1,380.0	10.20	289.80	1,368.3	49.5	-137.6	146.2	0.00	0.00	
1,410.0	10.20	289.80	1,397.8	51.3	-142.6	151.5	0.00	0.00	
1,440.0	10.20	289.80	1,427.4	53.1	-147.6	156.8	0.00	0.00	
1,470.0	10.20	289.80	1,456.9	54.9	-152.6	162.1	0.00	0.00	
1,500.0	10.20	289.80	1,486.4	56.7	-157.6	167.4	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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
1,530.0	10.20	289.80	1,515.9	58.5	-162.6	172.7	0.00	0.00	
1,560.0	10.20	289.80	1,545.5	60.3	-167.5	178.0	0.00	0.00	
1,590.0	10.20	289.80	1,575.0	62.1	-172.5	183.3	0.00	0.00	
1,620.0	10.20	289.80	1,604.5	63.9	-177.5	188.6	0.00	0.00	
1,650.0	10.20	289.80	1,634.0	65.7	-182.5	193.9	0.00	0.00	
1,680.0	10.20	289.80	1,663.6	67.5	-187.5	199.3	0.00	0.00	
1,710.0	10.20	289.80	1,693.1	69.3	-192.5	204.6	0.00	0.00	
1,740.0	10.20	289.80	1,722.6	71.1	-197.5	209.9	0.00	0.00	
1,770.0	10.20	289.80	1,752.1	72.9	-202.5	215.2	0.00	0.00	
1,800.0	10.20	289.80	1,781.7	74.7	-207.5	220.5	0.00	0.00	
1,830.0	10.20	289.80	1,811.2	76.5	-212.5	225.8	0.00	0.00	
1,860.0	10.20	289.80	1,840.7	78.3	-217.5	231.1	0.00	0.00	
1,890.0	10.20	289.80	1,870.2	80.1	-222.5	236.4	0.00	0.00	
1,920.0	10.20	289.80	1,899.8	81.9	-227.5	241.7	0.00	0.00	
1,950.0	10.20	289.80	1,929.3	83.7	-232.5	247.0	0.00	0.00	
1,980.0	10.20	289.80	1,958.8	85.5	-237.5	252.4	0.00	0.00	
2,010.0	10.20	289.80	1,988.3	87.3	-242.5	257.7	0.00	0.00	
2,040.0	10.20	289.80	2,017.9	89.1	-247.5	263.0	0.00	0.00	
2,070.0	10.20	289.80	2,047.4	90.9	-252.5	268.3	0.00	0.00	
2,100.0	10.20	289.80	2,076.9	92.7	-257.5	273.6	0.00	0.00	
2,130.0	10.20	289.80	2,106.5	94.5	-262.5	278.9	0.00	0.00	
2,160.0	10.20	289.80	2,136.0	96.3	-267.5	284.2	0.00	0.00	
2,190.0	10.20	289.80	2,165.5	98.1	-272.5	289.5	0.00	0.00	
2,220.0	10.20	289.80	2,195.0	99.9	-277.5	294.8	0.00	0.00	
2,250.0	10.20	289.80	2,224.6	101.7	-282.5	300.2	0.00	0.00	
2,280.0	10.20	289.80	2,254.1	103.5	-287.5	305.5	0.00	0.00	
2,310.0	10.20	289.80	2,283.6	105.3	-292.5	310.8	0.00	0.00	
2,340.0	10.20	289.80	2,313.1	107.1	-297.5	316.1	0.00	0.00	
2,370.0	10.20	289.80	2,342.7	108.9	-302.5	321.4	0.00	0.00	
2,400.0	10.20	289.80	2,372.2	110.7	-307.5	326.7	0.00	0.00	
2,430.0	10.20	289.80	2,401.7	112.5	-312.5	332.0	0.00	0.00	
2,460.0	10.20	289.80	2,431.2	114.3	-317.5	337.3	0.00	0.00	
2,490.0	10.20	289.80	2,460.8	116.1	-322.5	342.6	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 6-37D BHL	0.00	0.00	10,044.0	375.6	-1,132.0	1,638,951.50	2,250,872.59	39.557619	-108.157314
- plan misses target center by 7630.7ft at 2490.0ft MD (2460.8 TVD, 116.1 N, -322.5 E)									
- Rectangle (sides W50.0 H100.0 D0.0)									
Chevron 6-37D TOG	0.00	0.00	7,294.0	395.0	-1,097.3	1,638,969.90	2,250,907.83	39.557672	-108.157191
- plan misses target center by 4902.9ft at 2490.0ft MD (2460.8 TVD, 116.1 N, -322.5 E)									
- Point									

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 6-37D	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	10.20	289.80	2,470.6	116.7	-324.2	344.4	0.00	0.00	
2,600.0	10.20	289.80	2,569.0	122.7	-340.8	362.1	0.00	0.00	
2,700.0	10.20	289.80	2,667.4	128.7	-357.5	379.8	0.00	0.00	
2,800.0	10.20	289.80	2,765.9	134.7	-374.1	397.5	0.00	0.00	
2,900.0	10.20	289.80	2,864.3	140.7	-390.8	415.2	0.00	0.00	
3,000.0	10.20	289.80	2,962.7	146.7	-407.5	432.9	0.00	0.00	
3,100.0	10.20	289.80	3,061.1	152.7	-424.1	450.6	0.00	0.00	
3,200.0	10.20	289.80	3,159.5	158.7	-440.8	468.3	0.00	0.00	
3,265.5	10.20	289.80	3,224.0	162.6	-451.7	479.9	0.00	0.00	Wasatch
3,300.0	10.20	289.80	3,258.0	164.7	-457.4	486.0	0.00	0.00	
3,400.0	10.20	289.80	3,356.4	170.7	-474.1	503.7	0.00	0.00	
3,500.0	10.20	289.80	3,454.8	176.6	-490.8	521.4	0.00	0.00	
3,600.0	10.20	289.80	3,553.2	182.6	-507.4	539.1	0.00	0.00	
3,700.0	10.20	289.80	3,651.6	188.6	-524.1	556.8	0.00	0.00	
3,800.0	10.20	289.80	3,750.1	194.6	-540.7	574.5	0.00	0.00	
3,900.0	10.20	289.80	3,848.5	200.6	-557.4	592.2	0.00	0.00	
4,000.0	10.20	289.80	3,946.9	206.6	-574.1	609.9	0.00	0.00	
4,100.0	10.20	289.80	4,045.3	212.6	-590.7	627.6	0.00	0.00	
4,200.0	10.20	289.80	4,143.7	218.6	-607.4	645.3	0.00	0.00	
4,300.0	10.20	289.80	4,242.2	224.6	-624.0	663.0	0.00	0.00	
4,400.0	10.20	289.80	4,340.6	230.6	-640.7	680.7	0.00	0.00	
4,500.0	10.20	289.80	4,439.0	236.6	-657.3	698.4	0.00	0.00	
4,600.0	10.20	289.80	4,537.4	242.6	-674.0	716.1	0.00	0.00	
4,700.0	10.20	289.80	4,635.8	248.6	-690.7	733.8	0.00	0.00	
4,800.0	10.20	289.80	4,734.3	254.6	-707.3	751.5	0.00	0.00	
4,900.0	10.20	289.80	4,832.7	260.6	-724.0	769.2	0.00	0.00	
5,000.0	10.20	289.80	4,931.1	266.6	-740.6	786.9	0.00	0.00	
5,100.0	10.20	289.80	5,029.5	272.6	-757.3	804.6	0.00	0.00	
5,200.0	10.20	289.80	5,127.9	278.6	-774.0	822.3	0.00	0.00	
5,236.6	10.20	289.80	5,164.0	280.8	-780.1	828.8	0.00	0.00	Fort Union
5,300.0	10.20	289.80	5,226.4	284.6	-790.6	840.0	0.00	0.00	
5,400.0	10.20	289.80	5,324.8	290.6	-807.3	857.7	0.00	0.00	
5,500.0	10.20	289.80	5,423.2	296.6	-823.9	875.4	0.00	0.00	
5,600.0	10.20	289.80	5,521.6	302.6	-840.6	893.1	0.00	0.00	
5,700.0	10.20	289.80	5,620.0	308.6	-857.3	910.8	0.00	0.00	
5,744.7	10.20	289.80	5,664.0	311.3	-864.7	918.7	0.00	0.00	Base Ft Union
5,800.0	10.20	289.80	5,718.5	314.6	-873.9	928.5	0.00	0.00	
5,900.0	10.20	289.80	5,816.9	320.6	-890.6	946.2	0.00	0.00	
6,000.0	10.20	289.80	5,915.3	326.6	-907.2	963.9	0.00	0.00	
6,100.0	10.20	289.80	6,013.7	332.6	-923.9	981.6	0.00	0.00	
6,200.0	10.20	289.80	6,112.1	338.6	-940.6	999.3	0.00	0.00	
6,300.0	10.20	289.80	6,210.6	344.6	-957.2	1,017.0	0.00	0.00	
6,400.0	10.20	289.80	6,309.0	350.6	-973.9	1,034.7	0.00	0.00	
6,500.0	10.20	289.80	6,407.4	356.6	-990.5	1,052.4	0.00	0.00	
6,600.0	10.20	289.80	6,505.8	362.6	-1,007.2	1,070.1	0.00	0.00	
6,700.0	10.20	289.80	6,604.2	368.5	-1,023.9	1,087.8	0.00	0.00	
6,800.0	10.20	289.80	6,702.7	374.5	-1,040.5	1,105.5	0.00	0.00	
6,885.4	10.20	289.80	6,786.8	379.7	-1,054.8	1,120.7	0.00	0.00	Start Drop -2.00
6,900.0	9.91	289.80	6,801.1	380.5	-1,057.2	1,123.2	2.00	-2.00	
6,994.1	8.03	289.80	6,894.0	385.5	-1,070.9	1,137.9	2.00	-2.00	Ohio Creek
7,000.0	7.91	289.80	6,899.9	385.8	-1,071.7	1,138.7	2.00	-2.00	
7,100.0	5.91	289.80	6,999.1	389.8	-1,083.0	1,150.7	2.00	-2.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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
7,195.2	4.00	289.80	7,094.0	392.6	-1,090.8	1,158.9	2.00	-2.00	Williams Fork
7,200.0	3.91	289.80	7,098.8	392.7	-1,091.1	1,159.2	2.00	-2.00	
7,300.0	1.91	289.80	7,198.6	394.5	-1,095.9	1,164.3	2.00	-2.00	
7,395.4	0.00	0.00	7,294.0	395.0	-1,097.3	1,165.9	2.00	-2.00	EOD; Inc=0° - TOG - Chevron 6-37D TOG
7,400.0	0.01	240.75	7,298.6	395.0	-1,097.4	1,165.9	0.25	0.25	
7,500.0	0.26	240.75	7,398.6	394.9	-1,097.6	1,166.1	0.25	0.25	
7,600.0	0.51	240.75	7,498.6	394.6	-1,098.1	1,166.5	0.25	0.25	
7,700.0	0.76	240.75	7,598.6	394.0	-1,099.1	1,167.3	0.25	0.25	
7,749.5	0.89	240.75	7,648.2	393.7	-1,099.7	1,167.8	0.25	0.25	
7,800.0	0.89	240.75	7,698.6	393.3	-1,100.4	1,168.3	0.00	0.00	
7,900.0	0.89	240.75	7,798.6	392.5	-1,101.8	1,169.3	0.00	0.00	
8,000.0	0.89	240.75	7,898.6	391.8	-1,103.1	1,170.4	0.00	0.00	
8,100.0	0.89	240.75	7,998.6	391.0	-1,104.5	1,171.4	0.00	0.00	
8,200.0	0.89	240.75	8,098.6	390.3	-1,105.8	1,172.4	0.00	0.00	
8,300.0	0.89	240.75	8,198.5	389.5	-1,107.2	1,173.5	0.00	0.00	
8,400.0	0.89	240.75	8,298.5	388.8	-1,108.5	1,174.5	0.00	0.00	
8,500.0	0.89	240.75	8,398.5	388.0	-1,109.9	1,175.6	0.00	0.00	
8,600.0	0.89	240.75	8,498.5	387.2	-1,111.2	1,176.6	0.00	0.00	
8,700.0	0.89	240.75	8,598.5	386.5	-1,112.6	1,177.7	0.00	0.00	
8,800.0	0.89	240.75	8,698.5	385.7	-1,113.9	1,178.7	0.00	0.00	
8,900.0	0.89	240.75	8,798.5	385.0	-1,115.2	1,179.7	0.00	0.00	
9,000.0	0.89	240.75	8,898.5	384.2	-1,116.6	1,180.8	0.00	0.00	
9,100.0	0.89	240.75	8,998.5	383.5	-1,117.9	1,181.8	0.00	0.00	
9,200.0	0.89	240.75	9,098.4	382.7	-1,119.3	1,182.9	0.00	0.00	
9,300.0	0.89	240.75	9,198.4	382.0	-1,120.6	1,183.9	0.00	0.00	
9,400.0	0.89	240.75	9,298.4	381.2	-1,122.0	1,185.0	0.00	0.00	
9,500.0	0.89	240.75	9,398.4	380.4	-1,123.3	1,186.0	0.00	0.00	
9,545.6	0.89	240.75	9,444.0	380.1	-1,124.0	1,186.5	0.00	0.00	Cameo
9,600.0	0.89	240.75	9,498.4	379.7	-1,124.7	1,187.0	0.00	0.00	
9,700.0	0.89	240.75	9,598.4	378.9	-1,126.0	1,188.1	0.00	0.00	
9,800.0	0.89	240.75	9,698.4	378.2	-1,127.4	1,189.1	0.00	0.00	
9,900.0	0.89	240.75	9,798.4	377.4	-1,128.7	1,190.2	0.00	0.00	
9,995.7	0.89	240.75	9,894.0	376.7	-1,130.0	1,191.2	0.00	0.00	Rollins
10,000.0	0.89	240.75	9,898.3	376.7	-1,130.1	1,191.2	0.00	0.00	
10,100.0	0.89	240.75	9,998.3	375.9	-1,131.4	1,192.2	0.00	0.00	
10,145.7	0.89	240.75	10,044.0	375.6	-1,132.0	1,192.7	0.00	0.00	Chevron 6-37D 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 6-37D BHL	0.00	0.00	10,044.0	375.6	-1,132.0	1,638,951.50	2,250,872.59	39.557619	-108.157314
- plan hits target center									
- Rectangle (sides W50.0 H100.0 D0.0)									
Chevron 6-37D TOG	0.00	0.00	7,294.0	395.0	-1,097.3	1,638,969.90	2,250,907.83	39.557672	-108.157191
- plan hits target center									
- Point									

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,265.5	3,224.0	Wasatch		0.00		
5,236.6	5,164.0	Fort Union		0.00		
5,744.7	5,664.0	Base Ft Union		0.00		
6,994.1	6,894.0	Ohio Creek		0.00		
7,195.2	7,094.0	Williams Fork		0.00		
7,395.4	7,294.0	TOG		0.00		
9,545.6	9,444.0	Cameo		0.00		
9,995.7	9,894.0	Rollins		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.0	300.0	0.0	0.0	KOP @ 300' MD	
809.9	807.2	15.3	-42.6	EOB; Inc=10.20°	
6,885.4	6,786.8	379.7	-1,054.8	Start Drop -2.00	
7,395.4	7,294.0	395.0	-1,097.3	EOD; Inc=0°	
10,145.7	10,044.0	393.7	-1,099.7	TD at 10145.7	

Berry Petroleum Company (NAD 83)

Garfield County

Sec 6 T6S R96W (F06 696)

Chevron 6-37D

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 6-37D
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 6-37D	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	10,145.7	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						
Chevron C06 696 (NWNW S6-T6S-R96W)						
Chevron 6-39D - DD - Plan #1	7,488.7	7,424.6	719.4	672.5	15.353	CC
Chevron 6-39D - DD - Plan #1	7,500.0	7,434.5	719.4	672.5	15.347	ES
Chevron 6-39D - DD - Plan #1	10,145.7	10,079.9	739.4	686.7	14.031	SF
Chevron 6-40D - DD - Plan #1	7,502.6	7,415.1	1,010.9	963.4	21.290	CC, ES
Chevron 6-40D - DD - Plan #1	10,145.7	10,055.8	1,029.7	976.3	19.259	SF
Sec 6 T6S R96W (F06 696)						
Chevron 6-19D - DD - Plan #2	423.3	424.4	42.5	41.1	29.535	CC, ES
Chevron 6-19D - DD - Plan #2	600.0	599.2	52.1	50.0	24.312	SF
Chevron 6-20D - DD - Plan #2	300.0	300.0	60.0	59.0	61.778	CC, ES
Chevron 6-20D - DD - Plan #2	700.0	697.2	75.1	72.6	30.630	SF
Chevron 6-21D - DD - Plan #2	432.3	433.3	26.2	24.8	17.797	CC, ES
Chevron 6-21D - DD - Plan #2	500.0	500.5	27.9	26.2	15.961	SF
Chevron 6-22D - DD - Plan #3	300.0	300.0	75.1	74.1	77.395	CC, ES
Chevron 6-22D - DD - Plan #3	900.0	895.9	109.6	106.3	33.708	SF
Chevron 6-23D - DD - Plan #2	200.0	200.0	103.9	103.3	167.294	CC, ES
Chevron 6-23D - DD - Plan #2	1,400.0	1,372.9	273.3	267.9	50.937	SF
Chevron 6-25D - DD - DD	0.0	0.0	88.9			
Chevron 6-25D - DD - DD	5,800.0	5,669.1	1,180.8	1,149.3	37.464	SF
Chevron 6-32D - DD - Plan #2	200.0	200.0	75.0	74.4	120.675	CC, ES
Chevron 6-32D - DD - Plan #2	5,400.0	5,241.5	1,210.6	1,177.9	37.065	SF
Chevron 6-33D - DD - Plan #2	300.0	300.0	60.1	59.1	61.952	CC, ES
Chevron 6-33D - DD - Plan #2	6,800.0	6,676.3	1,218.7	1,176.3	28.788	SF
Chevron 6-34D - DD - Plan #2	528.3	527.7	43.4	41.6	24.137	CC, ES
Chevron 6-34D - DD - Plan #2	10,100.0	10,081.1	1,003.0	950.2	19.027	SF
Chevron 6-35D - DD - Plan #2	300.0	300.0	30.1	29.1	30.976	CC, ES
Chevron 6-35D - DD - Plan #2	10,100.0	10,080.5	633.5	580.4	11.939	SF
Chevron 6-36D - DD - Plan #2	200.0	200.0	15.0	14.4	24.189	CC, ES
Chevron 6-36D - DD - Plan #2	10,109.5	10,089.8	327.3	274.9	6.248	SF
Chevron 6-38D - DD - Plan #2	233.3	233.3	14.9	14.1	20.142	CC
Chevron 6-38D - DD - Plan #2	300.0	300.0	14.9	14.0	15.392	ES
Chevron 6-38D - DD - Plan #2	10,145.7	10,158.3	344.2	289.2	6.252	SF

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Chevron C06 696 (NWNW S6-T6S-R96W) - Chevron 6-39D - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	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)						
4,500.0	4,439.0	4,576.5	4,487.0	14.8	17.3	71.00	1,444.3	-673.2	1,217.9	1,189.4	28.53	42.683		
4,600.0	4,537.4	4,674.8	4,583.0	15.1	17.7	71.00	1,431.6	-689.6	1,199.1	1,169.9	29.21	41.051		
4,700.0	4,635.8	4,773.0	4,678.9	15.5	18.1	71.00	1,418.9	-706.0	1,180.2	1,150.3	29.88	39.493		
4,800.0	4,734.3	4,871.2	4,774.9	15.8	18.6	71.00	1,406.2	-722.4	1,161.4	1,130.8	30.56	38.004		
4,900.0	4,832.7	4,969.4	4,870.9	16.2	19.0	71.00	1,393.5	-738.8	1,142.5	1,111.3	31.23	36.578		
5,000.0	4,931.1	5,067.6	4,966.9	16.5	19.4	71.00	1,380.8	-755.2	1,123.7	1,091.8	31.91	35.214		
5,100.0	5,029.5	5,165.8	5,062.9	16.9	19.8	71.00	1,368.1	-771.6	1,104.8	1,072.2	32.59	33.905		
5,200.0	5,127.9	5,264.0	5,158.9	17.3	20.2	71.00	1,355.4	-788.1	1,086.0	1,052.7	33.26	32.650		
5,300.0	5,226.4	5,362.2	5,254.9	17.6	20.6	71.00	1,342.7	-804.5	1,067.1	1,033.2	33.94	31.445		
5,400.0	5,324.8	5,460.4	5,350.9	18.0	21.0	71.00	1,330.1	-820.9	1,048.3	1,013.7	34.61	30.287		
5,500.0	5,423.2	5,558.6	5,446.9	18.3	21.4	71.00	1,317.4	-837.3	1,029.4	994.2	35.29	29.173		
5,600.0	5,521.6	5,656.8	5,542.9	18.7	21.8	71.00	1,304.7	-853.7	1,010.6	974.6	35.96	28.101		
5,700.0	5,620.0	5,755.0	5,638.9	19.1	22.2	71.00	1,292.0	-870.1	991.8	955.1	36.64	27.068		
5,800.0	5,718.5	5,853.2	5,734.9	19.4	22.6	71.00	1,279.3	-886.5	972.9	935.6	37.31	26.073		
5,900.0	5,816.9	5,951.5	5,830.8	19.8	23.0	71.00	1,266.6	-902.9	954.1	916.1	37.99	25.114		
6,000.0	5,915.3	6,049.7	5,926.8	20.1	23.4	71.00	1,253.9	-919.3	935.2	896.6	38.67	24.187		
6,100.0	6,013.7	6,147.9	6,022.8	20.5	23.8	71.00	1,241.2	-935.7	916.4	877.0	39.34	23.293		
6,200.0	6,112.1	6,246.1	6,118.8	20.8	24.2	71.01	1,228.5	-952.1	897.5	857.5	40.02	22.429		
6,300.0	6,210.6	6,344.3	6,214.8	21.2	24.6	71.01	1,215.8	-968.6	878.7	838.0	40.69	21.593		
6,400.0	6,309.0	6,442.5	6,310.8	21.6	25.0	71.01	1,203.1	-985.0	859.8	818.5	41.37	20.785		
6,500.0	6,407.4	6,540.7	6,406.8	21.9	25.4	71.01	1,190.5	-1,001.4	841.0	798.9	42.04	20.003		
6,600.0	6,505.8	6,638.9	6,502.8	22.3	25.8	71.01	1,177.8	-1,017.8	822.1	779.4	42.72	19.245		
6,700.0	6,604.2	6,737.1	6,598.8	22.6	26.2	71.01	1,165.1	-1,034.2	803.3	759.9	43.39	18.511		
6,800.0	6,702.7	6,833.7	6,693.2	23.0	26.6	71.01	1,152.6	-1,050.3	784.5	740.4	44.06	17.803		
6,900.0	6,801.1	6,918.2	6,776.1	23.4	26.9	71.05	1,142.6	-1,063.2	766.7	722.0	44.66	17.168		
7,000.0	6,899.9	7,000.0	6,856.8	23.7	27.2	70.87	1,134.3	-1,073.9	751.5	706.2	45.22	16.616		
7,100.0	6,999.1	7,088.8	6,944.7	23.9	27.4	70.68	1,127.0	-1,083.4	739.2	693.4	45.72	16.168		
7,200.0	7,098.8	7,174.8	7,030.2	24.1	27.6	70.49	1,121.4	-1,090.6	729.8	683.7	46.12	15.824		
7,300.0	7,198.6	7,261.1	7,116.4	24.2	27.8	70.29	1,117.5	-1,095.8	723.5	677.1	46.44	15.580		
7,400.0	7,298.6	7,347.7	7,202.8	24.3	27.9	119.13	1,115.1	-1,098.8	720.2	673.5	46.68	15.430		
7,488.7	7,387.3	7,424.6	7,279.7	24.4	27.9	119.06	1,114.3	-1,099.9	719.4	672.5	46.86	15.353 CC		
7,500.0	7,398.6	7,434.5	7,289.6	24.4	27.9	119.06	1,114.3	-1,099.9	719.4	672.5	46.88	15.347 ES		
7,600.0	7,498.6	7,534.5	7,389.6	24.5	28.0	119.11	1,114.3	-1,099.9	719.7	672.6	47.08	15.288		
7,700.0	7,598.6	7,634.5	7,489.6	24.6	28.1	119.18	1,114.3	-1,099.9	720.3	673.0	47.28	15.234		
7,800.0	7,698.6	7,734.5	7,589.6	24.7	28.2	119.29	1,114.3	-1,099.9	721.0	673.5	47.49	15.183		
7,900.0	7,798.6	7,834.5	7,689.6	24.8	28.3	119.39	1,114.3	-1,099.9	721.8	674.1	47.69	15.133		
8,000.0	7,898.6	7,934.5	7,789.6	25.0	28.4	119.50	1,114.3	-1,099.9	722.5	674.6	47.90	15.084		
8,100.0	7,998.6	8,034.5	7,889.6	25.1	28.4	119.61	1,114.3	-1,099.9	723.3	675.2	48.11	15.034		
8,200.0	8,098.6	8,134.4	7,989.6	25.2	28.5	119.71	1,114.3	-1,099.9	724.0	675.7	48.32	14.984		
8,300.0	8,198.5	8,234.4	8,089.5	25.3	28.6	119.82	1,114.3	-1,099.9	724.8	676.3	48.53	14.935		
8,400.0	8,298.5	8,334.4	8,189.5	25.4	28.7	119.93	1,114.3	-1,099.9	725.6	676.8	48.75	14.885		
8,500.0	8,398.5	8,434.4	8,289.5	25.5	28.8	120.03	1,114.3	-1,099.9	726.3	677.4	48.96	14.835		
8,600.0	8,498.5	8,534.4	8,389.5	25.6	28.9	120.14	1,114.3	-1,099.9	727.1	677.9	49.18	14.786		
8,700.0	8,598.5	8,634.4	8,489.5	25.8	29.0	120.24	1,114.3	-1,099.9	727.9	678.5	49.40	14.736		
8,800.0	8,698.5	8,734.4	8,589.5	25.9	29.1	120.35	1,114.3	-1,099.9	728.7	679.1	49.61	14.687		
8,900.0	8,798.5	8,834.4	8,689.5	26.0	29.2	120.45	1,114.3	-1,099.9	729.5	679.6	49.84	14.637		
9,000.0	8,898.5	8,934.4	8,789.5	26.1	29.3	120.56	1,114.3	-1,099.9	730.2	680.2	50.06	14.588		
9,100.0	8,998.5	9,034.3	8,889.5	26.2	29.3	120.66	1,114.3	-1,099.9	731.0	680.8	50.28	14.539		
9,200.0	9,098.4	9,134.3	8,989.4	26.4	29.4	120.76	1,114.3	-1,099.9	731.8	681.3	50.51	14.490		
9,300.0	9,198.4	9,234.3	9,089.4	26.5	29.5	120.87	1,114.3	-1,099.9	732.6	681.9	50.73	14.441		
9,400.0	9,298.4	9,334.3	9,189.4	26.6	29.6	120.97	1,114.3	-1,099.9	733.4	682.4	50.96	14.392		

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 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Chevron C06 696 (NWNW S6-T6S-R96W) - Chevron 6-39D - DD - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,500.0	9,398.4	9,434.3	9,289.4	26.7	29.7	121.08	1,114.3	-1,099.9	734.2	683.0	51.19	14.343	
9,600.0	9,498.4	9,534.3	9,389.4	26.8	29.8	121.18	1,114.3	-1,099.9	735.0	683.6	51.42	14.294	
9,700.0	9,598.4	9,634.3	9,489.4	27.0	29.9	121.28	1,114.3	-1,099.9	735.8	684.2	51.65	14.246	
9,800.0	9,698.4	9,734.3	9,589.4	27.1	30.0	121.38	1,114.3	-1,099.9	736.6	684.7	51.88	14.197	
9,900.0	9,798.4	9,834.2	9,689.4	27.2	30.1	121.49	1,114.3	-1,099.9	737.4	685.3	52.12	14.149	
10,000.0	9,898.3	9,934.2	9,789.3	27.3	30.2	121.59	1,114.3	-1,099.9	738.2	685.9	52.35	14.101	
10,100.0	9,998.3	10,034.2	9,889.3	27.5	30.3	121.69	1,114.3	-1,099.9	739.0	686.4	52.59	14.053	
10,145.7	10,044.0	10,079.9	9,935.0	27.5	30.4	121.74	1,114.3	-1,099.9	739.4	686.7	52.70	14.031 SF	

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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)				
5,800.0	5,718.5	5,809.1	5,711.7	19.4	20.9	70.19	1,521.6	-897.6	1,211.5	1,173.8	37.70	32.139		
5,900.0	5,816.9	5,908.1	5,808.7	19.8	21.3	70.17	1,513.0	-914.5	1,196.9	1,158.5	38.38	31.182		
6,000.0	5,915.3	6,007.0	5,905.8	20.1	21.6	70.14	1,504.4	-931.5	1,182.3	1,143.2	39.07	30.259		
6,100.0	6,013.7	6,105.9	6,002.9	20.5	22.0	70.11	1,495.9	-948.4	1,167.7	1,128.0	39.76	29.369		
6,200.0	6,112.1	6,204.8	6,100.0	20.8	22.4	70.08	1,487.3	-965.4	1,153.1	1,112.7	40.45	28.508		
6,300.0	6,210.6	6,303.8	6,197.1	21.2	22.8	70.04	1,478.8	-982.3	1,138.5	1,097.4	41.14	27.676		
6,400.0	6,309.0	6,402.7	6,294.2	21.6	23.2	70.01	1,470.2	-999.3	1,123.9	1,082.1	41.83	26.872		
6,500.0	6,407.4	6,501.6	6,391.3	21.9	23.5	69.98	1,461.7	-1,016.3	1,109.3	1,066.8	42.51	26.093		
6,600.0	6,505.8	6,600.5	6,488.3	22.3	23.9	69.94	1,453.1	-1,033.2	1,094.7	1,051.5	43.20	25.339		
6,700.0	6,604.2	6,699.5	6,585.4	22.6	24.3	69.91	1,444.6	-1,050.2	1,080.1	1,036.2	43.89	24.609		
6,800.0	6,702.7	6,798.4	6,682.5	23.0	24.7	69.87	1,436.0	-1,067.1	1,065.5	1,021.0	44.58	23.902		
6,900.0	6,801.1	6,894.4	6,776.8	23.4	25.0	69.80	1,427.8	-1,083.5	1,051.0	1,005.7	45.26	23.220		
7,000.0	6,899.9	6,980.1	6,861.2	23.7	25.3	69.51	1,421.2	-1,096.6	1,038.1	992.2	45.84	22.644		
7,100.0	6,999.1	7,066.1	6,946.3	23.9	25.5	69.24	1,415.7	-1,107.5	1,027.7	981.3	46.34	22.179		
7,200.0	7,098.8	7,152.5	7,032.1	24.1	25.7	68.99	1,411.3	-1,116.1	1,019.8	973.0	46.74	21.819		
7,300.0	7,198.6	7,239.1	7,118.5	24.2	25.9	68.76	1,408.2	-1,122.4	1,014.4	967.4	47.05	21.568		
7,400.0	7,298.6	7,325.9	7,205.2	24.3	26.0	117.60	1,406.1	-1,126.4	1,011.7	964.4	47.28	21.397		
7,500.0	7,398.6	7,412.9	7,292.1	24.4	26.1	117.52	1,405.3	-1,128.0	1,010.9	963.4	47.48	21.292		
7,502.6	7,401.2	7,415.1	7,294.4	24.4	26.1	117.52	1,405.3	-1,128.0	1,010.9	963.4	47.48	21.290 CC, ES		
7,600.0	7,498.6	7,510.4	7,389.6	24.5	26.2	117.55	1,405.3	-1,128.1	1,011.2	963.5	47.68	21.209		
7,700.0	7,598.6	7,610.4	7,489.6	24.6	26.3	117.60	1,405.3	-1,128.1	1,011.7	963.8	47.89	21.127		
7,800.0	7,698.6	7,710.4	7,589.6	24.7	26.4	117.68	1,405.3	-1,128.1	1,012.4	964.3	48.10	21.049		
7,900.0	7,798.6	7,810.4	7,689.6	24.8	26.5	117.76	1,405.3	-1,128.1	1,013.1	964.8	48.31	20.971		
8,000.0	7,898.6	7,910.3	7,789.6	25.0	26.5	117.83	1,405.3	-1,128.1	1,013.8	965.3	48.53	20.892		
8,100.0	7,998.6	8,010.3	7,889.6	25.1	26.6	117.91	1,405.3	-1,128.1	1,014.6	965.8	48.74	20.815		
8,200.0	8,098.6	8,110.3	7,989.6	25.2	26.7	117.99	1,405.3	-1,128.1	1,015.3	966.3	48.96	20.737		
8,300.0	8,198.5	8,210.3	8,089.5	25.3	26.8	118.06	1,405.3	-1,128.1	1,016.0	966.8	49.18	20.659		
8,400.0	8,298.5	8,310.3	8,189.5	25.4	26.9	118.14	1,405.3	-1,128.1	1,016.7	967.3	49.40	20.581		
8,500.0	8,398.5	8,410.3	8,289.5	25.5	27.0	118.22	1,405.3	-1,128.1	1,017.5	967.8	49.62	20.504		
8,600.0	8,498.5	8,510.3	8,389.5	25.6	27.1	118.29	1,405.3	-1,128.1	1,018.2	968.3	49.85	20.427		
8,700.0	8,598.5	8,610.3	8,489.5	25.8	27.2	118.37	1,405.3	-1,128.1	1,018.9	968.9	50.07	20.349		
8,800.0	8,698.5	8,710.2	8,589.5	25.9	27.3	118.45	1,405.3	-1,128.1	1,019.7	969.4	50.30	20.272		
8,900.0	8,798.5	8,810.2	8,689.5	26.0	27.4	118.52	1,405.3	-1,128.1	1,020.4	969.9	50.53	20.196		
9,000.0	8,898.5	8,910.2	8,789.5	26.1	27.5	118.60	1,405.3	-1,128.1	1,021.1	970.4	50.75	20.119		
9,100.0	8,998.5	9,010.2	8,889.5	26.2	27.6	118.68	1,405.3	-1,128.1	1,021.9	970.9	50.99	20.043		
9,200.0	9,098.4	9,110.2	8,989.4	26.4	27.7	118.75	1,405.3	-1,128.1	1,022.6	971.4	51.22	19.967		
9,300.0	9,198.4	9,210.2	9,089.4	26.5	27.8	118.83	1,405.3	-1,128.1	1,023.4	971.9	51.45	19.891		
9,400.0	9,298.4	9,310.2	9,189.4	26.6	27.9	118.90	1,405.3	-1,128.1	1,024.1	972.4	51.68	19.815		
9,500.0	9,398.4	9,410.2	9,289.4	26.7	28.0	118.98	1,405.3	-1,128.1	1,024.9	972.9	51.92	19.740		
9,600.0	9,498.4	9,510.2	9,389.4	26.8	28.1	119.05	1,405.3	-1,128.1	1,025.6	973.5	52.16	19.664		
9,700.0	9,598.4	9,610.1	9,489.4	27.0	28.2	119.13	1,405.3	-1,128.1	1,026.4	974.0	52.39	19.590		
9,800.0	9,698.4	9,710.1	9,589.4	27.1	28.3	119.21	1,405.3	-1,128.1	1,027.1	974.5	52.63	19.515		
9,900.0	9,798.4	9,810.1	9,689.4	27.2	28.4	119.28	1,405.3	-1,128.1	1,027.9	975.0	52.87	19.441		
10,000.0	9,898.3	9,910.1	9,789.3	27.3	28.5	119.36	1,405.3	-1,128.1	1,028.6	975.5	53.11	19.367		
10,100.0	9,998.3	10,010.1	9,889.3	27.5	28.6	119.43	1,405.3	-1,128.1	1,029.4	976.0	53.36	19.293		
10,145.7	10,044.0	10,055.8	9,935.0	27.5	28.7	119.46	1,405.3	-1,128.1	1,029.7	976.3	53.47	19.259 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 6-37D
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 6-37D	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							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	36.61	36.1	26.8	44.9					
100.0	100.0	100.0	100.0	0.1	0.1	36.61	36.1	26.8	44.9	44.6	0.27	164.984		
200.0	200.0	200.0	200.0	0.3	0.3	36.61	36.1	26.8	44.9	44.3	0.62	72.296		
300.0	300.0	300.7	300.7	0.5	0.5	38.60	34.4	27.5	44.1	43.1	0.97	45.247		
400.0	400.0	401.1	401.0	0.7	0.7	117.36	29.6	29.6	42.6	41.3	1.35	31.661		
423.3	423.3	424.4	424.2	0.7	0.7	120.64	28.0	30.3	42.5	41.1	1.44	29.535 CC, ES		
500.0	499.8	500.6	500.0	0.9	0.9	134.09	21.7	33.0	44.0	42.3	1.75	25.169		
600.0	599.5	599.2	598.2	1.1	1.1	151.49	13.0	36.7	52.1	50.0	2.14	24.312 SF		
700.0	698.7	697.2	695.7	1.3	1.4	164.29	4.4	40.5	67.0	64.4	2.50	26.730		
800.0	797.5	794.4	792.5	1.6	1.6	172.55	-4.2	44.2	87.3	84.5	2.85	30.655		
900.0	895.9	891.2	888.9	2.0	1.8	177.73	-12.7	47.8	110.8	107.6	3.20	34.647		
1,000.0	994.3	988.0	985.3	2.3	2.1	-178.90	-21.2	51.5	134.9	131.4	3.56	37.950		
1,100.0	1,092.7	1,084.9	1,081.6	2.6	2.3	-176.55	-29.7	55.2	159.3	155.4	3.92	40.687		
1,200.0	1,191.1	1,181.7	1,178.0	3.0	2.5	-174.83	-38.3	58.9	183.9	179.6	4.28	42.971		
1,300.0	1,289.6	1,278.5	1,274.3	3.3	2.7	-173.51	-46.8	62.6	208.6	203.9	4.65	44.898		
1,400.0	1,388.0	1,375.3	1,370.7	3.7	3.0	-172.48	-55.3	66.3	233.3	228.3	5.01	46.540		
1,500.0	1,486.4	1,472.1	1,467.1	4.0	3.2	-171.64	-63.8	69.9	258.2	252.8	5.38	47.953		
1,600.0	1,584.8	1,568.9	1,563.4	4.4	3.4	-170.94	-72.4	73.6	283.1	277.3	5.76	49.180		
1,700.0	1,683.2	1,665.7	1,659.8	4.8	3.7	-170.36	-80.9	77.3	308.0	301.8	6.13	50.255		
1,800.0	1,781.7	1,762.5	1,756.1	5.1	3.9	-169.87	-89.4	81.0	332.9	326.4	6.50	51.204		
1,900.0	1,880.1	1,859.3	1,852.5	5.5	4.1	-169.45	-97.9	84.7	357.9	351.0	6.88	52.046		
2,000.0	1,978.5	1,956.1	1,948.8	5.8	4.4	-169.08	-106.5	88.3	382.8	375.6	7.25	52.800		
2,100.0	2,076.9	2,052.9	2,045.2	6.2	4.6	-168.75	-115.0	92.0	407.8	400.2	7.63	53.477		
2,200.0	2,175.3	2,149.7	2,141.6	6.5	4.8	-168.47	-123.5	95.7	432.8	424.8	8.00	54.089		
2,300.0	2,273.8	2,246.5	2,237.9	6.9	5.1	-168.21	-132.0	99.4	457.8	449.4	8.38	54.645		
2,400.0	2,372.2	2,343.3	2,334.3	7.2	5.3	-167.98	-140.5	103.1	482.8	474.1	8.75	55.151		
2,500.0	2,470.6	2,440.1	2,430.6	7.6	5.5	-167.78	-149.1	106.8	507.8	498.7	9.13	55.615		
2,600.0	2,569.0	2,536.9	2,527.0	8.0	5.8	-167.59	-157.6	110.4	532.9	523.4	9.51	56.041		
2,700.0	2,667.4	2,633.7	2,623.4	8.3	6.0	-167.42	-166.1	114.1	557.9	548.0	9.89	56.434		
2,800.0	2,765.9	2,730.5	2,719.7	8.7	6.2	-167.26	-174.6	117.8	582.9	572.7	10.26	56.797		
2,900.0	2,864.3	2,827.3	2,816.1	9.0	6.5	-167.12	-183.2	121.5	608.0	597.3	10.64	57.134		
3,000.0	2,962.7	2,924.1	2,912.4	9.4	6.7	-166.99	-191.7	125.2	633.0	622.0	11.02	57.447		
3,100.0	3,061.1	3,020.9	3,008.8	9.7	7.0	-166.87	-200.2	128.8	658.0	646.6	11.40	57.739		
3,200.0	3,159.5	3,117.8	3,105.1	10.1	7.2	-166.76	-208.7	132.5	683.1	671.3	11.77	58.012		
3,300.0	3,258.0	3,214.6	3,201.5	10.5	7.4	-166.65	-217.3	136.2	708.1	696.0	12.15	58.267		
3,400.0	3,356.4	3,311.4	3,297.9	10.8	7.7	-166.55	-225.8	139.9	733.2	720.6	12.53	58.507		
3,500.0	3,454.8	3,408.2	3,394.2	11.2	7.9	-166.46	-234.3	143.6	758.2	745.3	12.91	58.732		
3,600.0	3,553.2	3,505.0	3,490.6	11.5	8.1	-166.38	-242.8	147.3	783.3	770.0	13.29	58.945		
3,700.0	3,651.6	3,601.8	3,586.9	11.9	8.4	-166.30	-251.3	150.9	808.3	794.7	13.67	59.145		
3,800.0	3,750.1	3,698.6	3,683.3	12.2	8.6	-166.22	-259.9	154.6	833.4	819.3	14.05	59.334		
3,900.0	3,848.5	3,795.4	3,779.7	12.6	8.8	-166.15	-268.4	158.3	858.4	844.0	14.42	59.513		
4,000.0	3,946.9	3,892.2	3,876.0	13.0	9.1	-166.08	-276.9	162.0	883.5	868.7	14.80	59.683		
4,100.0	4,045.3	3,989.0	3,972.4	13.3	9.3	-166.02	-285.4	165.7	908.6	893.4	15.18	59.844		
4,200.0	4,143.7	4,085.8	4,068.7	13.7	9.5	-165.96	-294.0	169.3	933.6	918.1	15.56	59.997		
4,300.0	4,242.2	4,182.6	4,165.1	14.0	9.8	-165.91	-302.5	173.0	958.7	942.7	15.94	60.143		
4,400.0	4,340.6	4,279.4	4,261.4	14.4	10.0	-165.85	-311.0	176.7	983.7	967.4	16.32	60.282		
4,500.0	4,439.0	4,376.2	4,357.8	14.8	10.2	-165.80	-319.5	180.4	1,008.8	992.1	16.70	60.414		
4,600.0	4,537.4	4,473.0	4,454.2	15.1	10.5	-165.75	-328.1	184.1	1,033.9	1,016.8	17.08	60.541		
4,700.0	4,635.8	4,569.8	4,550.5	15.5	10.7	-165.71	-336.6	187.7	1,058.9	1,041.5	17.46	60.662		
4,800.0	4,734.3	4,666.6	4,646.9	15.8	10.9	-165.66	-345.1	191.4	1,084.0	1,066.2	17.84	60.777		
4,900.0	4,832.7	4,763.4	4,743.2	16.2	11.2	-165.62	-353.6	195.1	1,109.1	1,090.8	18.21	60.888		
5,000.0	4,931.1	4,860.2	4,839.6	16.5	11.4	-165.58	-362.1	198.8	1,134.1	1,115.5	18.59	60.994		

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 6-37D
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 6-37D	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							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	5,029.5	4,957.0	4,936.0	16.9	11.6	-165.54	-370.7	202.5	1,159.2	1,140.2	18.97	61.096						
5,200.0	5,127.9	5,053.8	5,032.3	17.3	11.9	-165.50	-379.2	206.2	1,184.3	1,164.9	19.35	61.194						
5,300.0	5,226.4	5,150.6	5,128.7	17.6	12.1	-165.47	-387.7	209.8	1,209.3	1,189.6	19.73	61.288						

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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	36.68	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		
300.0	300.0	300.0	300.0	0.5	0.5	36.68	48.1	35.8	60.0	59.0	0.97	61.778 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	108.45	48.1	35.8	60.5	59.2	1.32	45.752		
500.0	499.8	499.8	499.8	0.9	0.8	112.98	48.1	35.8	62.3	60.7	1.68	37.000		
600.0	599.5	599.2	599.2	1.1	1.0	121.30	46.9	37.0	66.4	64.4	2.06	32.187		
700.0	698.7	697.2	697.0	1.3	1.2	132.90	43.4	40.7	75.1	72.6	2.45	30.630 SF		
800.0	797.5	794.0	793.5	1.6	1.4	144.65	37.9	46.3	90.4	87.6	2.82	32.045		
900.0	895.9	890.7	889.8	2.0	1.6	153.61	32.3	52.2	110.6	107.4	3.17	34.922		
1,000.0	994.3	987.4	986.2	2.3	1.8	159.76	26.6	58.1	132.6	129.1	3.50	37.855		
1,100.0	1,092.7	1,084.1	1,082.5	2.6	2.0	164.15	20.9	64.0	155.7	151.9	3.84	40.577		
1,200.0	1,191.1	1,180.8	1,178.9	3.0	2.2	167.41	15.2	69.9	179.5	175.3	4.17	43.017		
1,300.0	1,289.6	1,277.5	1,275.3	3.3	2.4	169.90	9.5	75.8	203.6	199.1	4.51	45.178		
1,400.0	1,388.0	1,374.2	1,371.6	3.7	2.6	171.87	3.8	81.7	228.1	223.2	4.84	47.085		
1,500.0	1,486.4	1,470.9	1,468.0	4.0	2.9	173.45	-1.8	87.6	252.7	247.5	5.18	48.771		
1,600.0	1,584.8	1,567.6	1,564.3	4.4	3.1	174.75	-7.5	93.5	277.5	272.0	5.52	50.265		
1,700.0	1,683.2	1,664.3	1,660.7	4.8	3.3	175.84	-13.2	99.4	302.5	296.6	5.86	51.596		
1,800.0	1,781.7	1,761.0	1,757.0	5.1	3.5	176.77	-18.9	105.3	327.5	321.3	6.20	52.786		
1,900.0	1,880.1	1,857.7	1,853.4	5.5	3.7	177.56	-24.6	111.2	352.5	346.0	6.55	53.855		
2,000.0	1,978.5	1,954.3	1,949.7	5.8	3.9	178.25	-30.3	117.1	377.7	370.8	6.89	54.820		
2,100.0	2,076.9	2,051.0	2,046.1	6.2	4.2	178.85	-35.9	123.0	402.8	395.6	7.23	55.694		
2,200.0	2,175.3	2,147.7	2,142.4	6.5	4.4	179.38	-41.6	128.9	428.0	420.5	7.58	56.490		
2,300.0	2,273.8	2,244.4	2,238.8	6.9	4.6	179.85	-47.3	134.8	453.3	445.4	7.92	57.216		
2,400.0	2,372.2	2,341.1	2,335.1	7.2	4.8	-179.72	-53.0	140.7	478.6	470.3	8.27	57.883		
2,500.0	2,470.6	2,437.8	2,431.5	7.6	5.0	-179.34	-58.7	146.6	503.8	495.2	8.61	58.495		
2,600.0	2,569.0	2,534.5	2,527.8	8.0	5.3	-179.00	-64.4	152.5	529.2	520.2	8.96	59.060		
2,700.0	2,667.4	2,631.2	2,624.2	8.3	5.5	-178.69	-70.0	158.4	554.5	545.2	9.31	59.583		
2,800.0	2,765.9	2,727.9	2,720.5	8.7	5.7	-178.40	-75.7	164.3	579.8	570.2	9.65	60.068		
2,900.0	2,864.3	2,824.6	2,816.9	9.0	5.9	-178.14	-81.4	170.1	605.2	595.2	10.00	60.519		
3,000.0	2,962.7	2,921.3	2,913.2	9.4	6.1	-177.90	-87.1	176.0	630.5	620.2	10.35	60.940		
3,100.0	3,061.1	3,018.0	3,009.6	9.7	6.4	-177.68	-92.8	181.9	655.9	645.2	10.69	61.333		
3,200.0	3,159.5	3,114.7	3,105.9	10.1	6.6	-177.48	-98.5	187.8	681.3	670.2	11.04	61.701		
3,300.0	3,258.0	3,211.4	3,202.3	10.5	6.8	-177.28	-104.1	193.7	706.7	695.3	11.39	62.047		
3,400.0	3,356.4	3,308.1	3,298.6	10.8	7.0	-177.11	-109.8	199.6	732.1	720.3	11.74	62.372		
3,500.0	3,454.8	3,404.8	3,395.0	11.2	7.2	-176.94	-115.5	205.5	757.5	745.4	12.08	62.677		
3,600.0	3,553.2	3,501.5	3,491.3	11.5	7.5	-176.79	-121.2	211.4	782.9	770.4	12.43	62.966		
3,700.0	3,651.6	3,598.2	3,587.7	11.9	7.7	-176.64	-126.9	217.3	808.3	795.5	12.78	63.239		
3,800.0	3,750.1	3,694.9	3,684.0	12.2	7.9	-176.51	-132.6	223.2	833.7	820.6	13.13	63.497		
3,900.0	3,848.5	3,791.6	3,780.4	12.6	8.1	-176.38	-138.2	229.1	859.1	845.6	13.48	63.741		
4,000.0	3,946.9	3,888.3	3,876.7	13.0	8.3	-176.26	-143.9	235.0	884.5	870.7	13.83	63.974		
4,100.0	4,045.3	3,985.0	3,973.1	13.3	8.6	-176.14	-149.6	240.9	910.0	895.8	14.18	64.194		
4,200.0	4,143.7	4,081.7	4,069.4	13.7	8.8	-176.04	-155.3	246.8	935.4	920.9	14.52	64.404		
4,300.0	4,242.2	4,178.4	4,165.8	14.0	9.0	-175.93	-161.0	252.7	960.8	945.9	14.87	64.604		
4,400.0	4,340.6	4,275.1	4,262.1	14.4	9.2	-175.84	-166.7	258.6	986.3	971.0	15.22	64.795		
4,500.0	4,439.0	4,371.8	4,358.5	14.8	9.4	-175.75	-172.4	264.5	1,011.7	996.1	15.57	64.977		
4,600.0	4,537.4	4,468.5	4,454.8	15.1	9.7	-175.66	-178.0	270.4	1,037.1	1,021.2	15.92	65.151		
4,700.0	4,635.8	4,565.2	4,551.2	15.5	9.9	-175.57	-183.7	276.3	1,062.6	1,046.3	16.27	65.317		
4,800.0	4,734.3	4,661.9	4,647.5	15.8	10.1	-175.50	-189.4	282.2	1,088.0	1,071.4	16.62	65.476		
4,900.0	4,832.7	4,758.6	4,743.9	16.2	10.3	-175.42	-195.1	288.1	1,113.5	1,096.5	16.97	65.629		
5,000.0	4,931.1	4,855.3	4,840.2	16.5	10.6	-175.35	-200.8	294.0	1,138.9	1,121.6	17.32	65.776		
5,100.0	5,029.5	4,952.0	4,936.6	16.9	10.8	-175.28	-206.5	299.9	1,164.4	1,146.7	17.66	65.916		

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 6-37D
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 6-37D	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor							
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)									
5,200.0	5,127.9	5,048.7	5,032.9	17.3	11.0	-175.21	-212.1	305.8	1,189.8	1,171.8	18.01	66.052							
5,300.0	5,226.4	5,193.5	5,177.4	17.6	11.3	-175.16	-218.9	312.8	1,213.8	1,195.4	18.44	65.819							

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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: O-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	36.46	24.0	17.8	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	36.46	24.0	17.8	29.9	29.6	0.27	109.784		
200.0	200.0	200.0	200.0	0.3	0.3	36.46	24.0	17.8	29.9	29.3	0.62	48.108		
300.0	300.0	300.7	300.7	0.5	0.5	39.05	22.3	18.1	28.7	27.7	0.97	29.474		
400.0	400.0	401.0	400.9	0.7	0.7	121.66	17.1	19.1	26.5	25.2	1.34	19.735		
432.3	432.3	433.3	433.0	0.7	0.8	128.82	14.7	19.5	26.2	24.8	1.47	17.797 CC, ES		
500.0	499.8	500.5	499.9	0.9	0.9	147.32	8.6	20.7	27.9	26.2	1.75	15.961 SF		
600.0	599.5	598.6	597.3	1.1	1.2	172.82	-3.2	22.9	38.6	36.5	2.15	17.960		
700.0	698.7	695.9	693.6	1.3	1.4	-172.70	-16.8	25.4	58.2	55.7	2.52	23.069		
800.0	797.5	792.5	789.2	1.6	1.7	-166.14	-30.4	28.0	82.8	79.9	2.90	28.558		
900.0	895.9	888.6	884.3	2.0	2.0	-162.96	-43.9	30.5	109.9	106.6	3.30	33.317		
1,000.0	994.3	984.7	979.5	2.3	2.3	-161.06	-57.4	33.1	137.2	133.5	3.71	37.007		
1,100.0	1,092.7	1,080.9	1,074.6	2.6	2.6	-159.78	-71.0	35.6	164.6	160.5	4.12	39.936		
1,200.0	1,191.1	1,177.0	1,169.7	3.0	2.9	-158.87	-84.5	38.2	192.0	187.5	4.54	42.308		
1,300.0	1,289.6	1,273.1	1,264.9	3.3	3.2	-158.19	-98.0	40.7	219.5	214.5	4.96	44.263		
1,400.0	1,388.0	1,369.2	1,360.0	3.7	3.5	-157.66	-111.5	43.2	247.0	241.6	5.38	45.900		
1,500.0	1,486.4	1,465.4	1,455.2	4.0	3.7	-157.23	-125.0	45.8	274.5	268.7	5.80	47.289		
1,600.0	1,584.8	1,561.5	1,550.3	4.4	4.0	-156.88	-138.6	48.3	302.0	295.8	6.23	48.481		
1,700.0	1,683.2	1,657.6	1,645.4	4.8	4.3	-156.59	-152.1	50.9	329.6	322.9	6.66	49.516		
1,800.0	1,781.7	1,753.7	1,740.6	5.1	4.6	-156.35	-165.6	53.4	357.1	350.0	7.08	50.421		
1,900.0	1,880.1	1,849.8	1,835.7	5.5	4.9	-156.14	-179.1	55.9	384.6	377.1	7.51	51.220		
2,000.0	1,978.5	1,946.0	1,930.8	5.8	5.2	-155.96	-192.6	58.5	412.2	404.2	7.94	51.930		
2,100.0	2,076.9	2,042.1	2,026.0	6.2	5.5	-155.80	-206.1	61.0	439.7	431.4	8.37	52.564		
2,200.0	2,175.3	2,138.2	2,121.1	6.5	5.8	-155.66	-219.7	63.6	467.3	458.5	8.79	53.135		
2,300.0	2,273.8	2,234.3	2,216.2	6.9	6.1	-155.53	-233.2	66.1	494.8	485.6	9.22	53.652		
2,400.0	2,372.2	2,330.5	2,311.4	7.2	6.4	-155.42	-246.7	68.6	522.4	512.7	9.65	54.121		
2,500.0	2,470.6	2,426.6	2,406.5	7.6	6.7	-155.32	-260.2	71.2	550.0	539.9	10.08	54.549		
2,600.0	2,569.0	2,522.7	2,501.6	8.0	7.0	-155.23	-273.7	73.7	577.5	567.0	10.51	54.941		
2,700.0	2,667.4	2,618.8	2,596.8	8.3	7.2	-155.15	-287.2	76.3	605.1	594.1	10.94	55.301		
2,800.0	2,765.9	2,715.0	2,691.9	8.7	7.5	-155.07	-300.8	78.8	632.6	621.3	11.37	55.634		
2,900.0	2,864.3	2,811.1	2,787.0	9.0	7.8	-155.00	-314.3	81.4	660.2	648.4	11.80	55.941		
3,000.0	2,962.7	2,907.2	2,882.2	9.4	8.1	-154.94	-327.8	83.9	687.8	675.5	12.23	56.227		
3,100.0	3,061.1	3,003.3	2,977.3	9.7	8.4	-154.88	-341.3	86.4	715.3	702.7	12.66	56.492		
3,200.0	3,159.5	3,099.5	3,072.4	10.1	8.7	-154.83	-354.8	89.0	742.9	729.8	13.09	56.740		
3,300.0	3,258.0	3,195.6	3,167.6	10.5	9.0	-154.78	-368.4	91.5	770.5	756.9	13.52	56.972		
3,400.0	3,356.4	3,291.7	3,262.7	10.8	9.3	-154.73	-381.9	94.1	798.0	784.1	13.95	57.189		
3,500.0	3,454.8	3,387.8	3,357.8	11.2	9.6	-154.69	-395.4	96.6	825.6	811.2	14.39	57.392		
3,600.0	3,553.2	3,483.9	3,453.0	11.5	9.9	-154.65	-408.9	99.1	853.2	838.3	14.82	57.584		
3,700.0	3,651.6	3,580.1	3,548.1	11.9	10.2	-154.61	-422.4	101.7	880.7	865.5	15.25	57.765		
3,800.0	3,750.1	3,676.2	3,643.2	12.2	10.5	-154.57	-435.9	104.2	908.3	892.6	15.68	57.935		
3,900.0	3,848.5	3,772.3	3,738.4	12.6	10.8	-154.54	-449.5	106.8	935.9	919.8	16.11	58.096		
4,000.0	3,946.9	3,868.4	3,833.5	13.0	11.0	-154.51	-463.0	109.3	963.4	946.9	16.54	58.249		
4,100.0	4,045.3	3,964.6	3,928.6	13.3	11.3	-154.48	-476.5	111.8	991.0	974.0	16.97	58.394		
4,200.0	4,143.7	4,060.7	4,023.8	13.7	11.6	-154.45	-490.0	114.4	1,018.6	1,001.2	17.40	58.531		
4,300.0	4,242.2	4,156.8	4,118.9	14.0	11.9	-154.42	-503.5	116.9	1,046.1	1,028.3	17.83	58.662		
4,400.0	4,340.6	4,252.9	4,214.0	14.4	12.2	-154.40	-517.1	119.5	1,073.7	1,055.5	18.26	58.786		
4,500.0	4,439.0	4,349.1	4,309.2	14.8	12.5	-154.37	-530.6	122.0	1,101.3	1,082.6	18.70	58.905		
4,600.0	4,537.4	4,445.2	4,404.3	15.1	12.8	-154.35	-544.1	124.5	1,128.9	1,109.7	19.13	59.018		
4,700.0	4,635.8	4,541.3	4,499.4	15.5	13.1	-154.33	-557.6	127.1	1,156.4	1,136.9	19.56	59.126		
4,800.0	4,734.3	4,637.4	4,594.6	15.8	13.4	-154.30	-571.1	129.6	1,184.0	1,164.0	19.99	59.229		
4,900.0	4,832.7	4,733.5	4,689.7	16.2	13.7	-154.28	-584.6	132.2	1,211.6	1,191.1	20.42	59.328		

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 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-22D - DD - Plan #3														Offset Site Error:	0.0 ft
Survey Program: O-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
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	36.38	60.5	44.5	75.1						
100.0	100.0	100.0	100.0	0.1	0.1	36.38	60.5	44.5	75.1	74.8	0.27	275.843			
200.0	200.0	200.0	200.0	0.3	0.3	36.38	60.5	44.5	75.1	74.5	0.62	120.875			
300.0	300.0	300.0	300.0	0.5	0.5	36.38	60.5	44.5	75.1	74.1	0.97	77.395 CC, ES			
400.0	400.0	400.0	400.0	0.7	0.7	107.84	60.5	44.5	75.6	74.3	1.32	57.205			
500.0	499.8	499.8	499.8	0.9	0.8	111.50	60.5	44.5	77.4	75.7	1.69	45.923			
600.0	599.5	599.5	599.5	1.1	1.0	117.16	60.5	44.5	81.0	78.9	2.07	39.188			
700.0	698.7	698.7	698.7	1.3	1.2	124.16	60.5	44.5	87.3	84.8	2.46	35.407			
800.0	797.5	797.5	797.5	1.6	1.4	131.63	60.5	44.5	97.0	94.1	2.87	33.800			
900.0	895.9	895.9	895.9	2.0	1.5	138.49	60.5	44.5	109.6	106.3	3.25	33.708 SF			
1,000.0	994.3	994.3	994.3	2.3	1.7	143.92	60.5	44.5	123.5	119.9	3.62	34.129			
1,100.0	1,092.7	1,088.4	1,088.4	2.6	1.9	148.10	60.6	45.9	139.7	135.7	3.97	35.202			
1,200.0	1,191.1	1,181.2	1,181.1	3.0	2.0	151.42	61.2	50.2	159.7	155.4	4.31	37.064			
1,300.0	1,289.6	1,272.6	1,272.2	3.3	2.2	153.96	62.1	57.4	183.3	178.7	4.65	39.460			
1,400.0	1,388.0	1,367.2	1,366.3	3.7	2.4	155.98	63.3	67.0	209.4	204.4	4.99	42.009			
1,500.0	1,486.4	1,463.5	1,462.1	4.0	2.6	157.58	64.5	76.9	235.9	230.5	5.33	44.265			
1,600.0	1,584.8	1,559.8	1,557.8	4.4	2.8	158.86	65.7	86.8	262.4	256.8	5.67	46.263			
1,700.0	1,683.2	1,656.0	1,653.5	4.8	3.0	159.90	67.0	96.7	289.1	283.1	6.02	48.042			
1,800.0	1,781.7	1,752.3	1,749.3	5.1	3.2	160.76	68.2	106.6	315.9	309.5	6.36	49.632			
1,900.0	1,880.1	1,848.5	1,845.0	5.5	3.5	161.49	69.4	116.5	342.7	336.0	6.71	51.060			
2,000.0	1,978.5	1,944.8	1,940.8	5.8	3.7	162.12	70.7	126.4	369.5	362.5	7.06	52.350			
2,100.0	2,076.9	2,041.0	2,036.5	6.2	3.9	162.66	71.9	136.3	396.4	389.0	7.41	53.518			
2,200.0	2,175.3	2,137.3	2,132.2	6.5	4.1	163.13	73.1	146.2	423.3	415.6	7.76	54.582			
2,300.0	2,273.8	2,233.5	2,228.0	6.9	4.4	163.55	74.4	156.1	450.3	442.2	8.11	55.554			
2,400.0	2,372.2	2,329.8	2,323.7	7.2	4.6	163.91	75.6	166.0	477.2	468.8	8.45	56.444			
2,500.0	2,470.6	2,426.1	2,419.4	7.6	4.8	164.24	76.8	175.9	504.2	495.4	8.81	57.264			
2,600.0	2,569.0	2,522.3	2,515.2	8.0	5.1	164.54	78.0	185.8	531.2	522.0	9.16	58.020			
2,700.0	2,667.4	2,618.6	2,610.9	8.3	5.3	164.81	79.3	195.7	558.2	548.7	9.51	58.720			
2,800.0	2,765.9	2,714.8	2,706.7	8.7	5.5	165.05	80.5	205.6	585.2	575.4	9.86	59.369			
2,900.0	2,864.3	2,811.1	2,802.4	9.0	5.8	165.27	81.7	215.4	612.2	602.0	10.21	59.973			
3,000.0	2,962.7	2,907.3	2,898.1	9.4	6.0	165.47	83.0	225.3	639.3	628.7	10.56	60.537			
3,100.0	3,061.1	3,003.6	2,993.9	9.7	6.2	165.66	84.2	235.2	666.3	655.4	10.91	61.063			
3,200.0	3,159.5	3,099.8	3,089.6	10.1	6.5	165.83	85.4	245.1	693.3	682.1	11.26	61.557			
3,300.0	3,258.0	3,206.5	3,195.8	10.5	6.7	166.01	86.8	255.8	720.1	708.5	11.63	61.909			
3,400.0	3,356.4	3,335.8	3,324.8	10.8	7.0	166.29	87.8	264.3	743.7	731.6	12.03	61.804			
3,500.0	3,454.8	3,466.0	3,454.9	11.2	7.2	166.66	88.2	267.0	762.9	750.5	12.43	61.381			
3,600.0	3,553.2	3,567.2	3,556.1	11.5	7.3	166.98	88.0	266.8	780.0	767.2	12.78	61.048			
3,700.0	3,651.6	3,666.6	3,655.5	11.9	7.5	167.29	87.7	266.3	796.8	783.7	13.12	60.732			
3,800.0	3,750.1	3,765.1	3,754.0	12.2	7.6	167.59	87.4	265.8	813.6	800.1	13.46	60.440			
3,900.0	3,848.5	3,863.6	3,852.5	12.6	7.8	167.88	87.1	265.2	830.4	816.6	13.80	60.165			
4,000.0	3,946.9	3,962.1	3,951.0	13.0	7.9	168.16	86.8	264.7	847.3	833.1	14.14	59.905			
4,100.0	4,045.3	4,060.6	4,049.5	13.3	8.1	168.43	86.5	264.2	864.2	849.7	14.48	59.660			
4,200.0	4,143.7	4,159.1	4,148.0	13.7	8.2	168.68	86.2	263.7	881.0	866.2	14.83	59.427			
4,300.0	4,242.2	4,257.6	4,246.5	14.0	8.3	168.93	85.9	263.1	898.0	882.8	15.17	59.207			
4,400.0	4,340.6	4,356.1	4,344.9	14.4	8.5	169.16	85.6	262.6	914.9	899.4	15.51	58.997			
4,500.0	4,439.0	4,454.5	4,443.4	14.8	8.6	169.39	85.3	262.1	931.8	916.0	15.85	58.798			
4,600.0	4,537.4	4,553.0	4,541.9	15.1	8.8	169.61	85.0	261.6	948.8	932.6	16.19	58.608			
4,700.0	4,635.8	4,651.5	4,640.4	15.5	8.9	169.82	84.7	261.1	965.7	949.2	16.53	58.427			
4,800.0	4,734.3	4,750.0	4,738.9	15.8	9.1	170.03	84.4	260.5	982.7	965.8	16.87	58.254			
4,900.0	4,832.7	4,848.5	4,837.4	16.2	9.2	170.23	84.1	260.0	999.7	982.5	17.21	58.088			
5,000.0	4,931.1	4,947.0	4,935.9	16.5	9.4	170.42	83.8	259.5	1,016.7	999.2	17.55	57.930			
5,100.0	5,029.5	5,045.5	5,034.3	16.9	9.6	170.60	83.5	259.0	1,033.7	1,015.8	17.89	57.778			

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 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-22D - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,127.9	5,144.0	5,132.8	17.3	9.7	170.78	83.2	258.4	1,050.7	1,032.5	18.23	57.633		
5,300.0	5,226.4	5,242.5	5,231.3	17.6	9.9	170.96	82.9	257.9	1,067.8	1,049.2	18.57	57.493		
5,400.0	5,324.8	5,340.9	5,329.8	18.0	10.0	171.13	82.6	257.4	1,084.8	1,065.9	18.91	57.359		
5,500.0	5,423.2	5,439.4	5,428.3	18.3	10.2	171.29	82.3	256.9	1,101.9	1,082.6	19.25	57.230		
5,600.0	5,521.6	5,537.9	5,526.8	18.7	10.3	171.45	82.0	256.3	1,118.9	1,099.3	19.59	57.106		
5,700.0	5,620.0	5,636.4	5,625.3	19.1	10.5	171.60	81.7	255.8	1,136.0	1,116.1	19.93	56.986		
5,800.0	5,718.5	5,734.9	5,723.7	19.4	10.6	171.75	81.4	255.3	1,153.1	1,132.8	20.28	56.871		
5,900.0	5,816.9	5,833.4	5,822.2	19.8	10.8	171.89	81.1	254.8	1,170.1	1,149.5	20.62	56.759		
6,000.0	5,915.3	5,931.9	5,920.7	20.1	11.0	172.03	80.8	254.3	1,187.2	1,166.3	20.96	56.652		
6,100.0	6,013.7	6,030.4	6,019.2	20.5	11.1	172.17	80.5	253.7	1,204.3	1,183.0	21.30	56.548		
6,200.0	6,112.1	6,128.8	6,117.7	20.8	11.3	172.30	80.2	253.2	1,221.4	1,199.8	21.64	56.447		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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		
0.0	0.0	0.0	0.0	0.0	0.0	36.64	83.4	62.0	103.9					
100.0	100.0	100.0	100.0	0.1	0.1	36.64	83.4	62.0	103.9	103.7	0.27	381.772		
200.0	200.0	200.0	200.0	0.3	0.3	36.64	83.4	62.0	103.9	103.3	0.62	167.294 CC, ES		
300.0	300.0	296.5	296.5	0.5	0.5	36.81	84.5	63.2	105.6	104.6	0.97	109.199		
400.0	400.0	392.8	392.6	0.7	0.7	108.22	87.8	66.8	111.1	109.8	1.31	84.785		
500.0	499.8	491.7	491.3	0.9	0.9	110.99	92.5	72.0	119.9	118.2	1.67	71.719		
600.0	599.5	590.8	590.2	1.1	1.1	114.73	97.2	77.3	130.4	128.4	2.05	63.514		
700.0	698.7	689.4	688.5	1.3	1.3	119.06	102.0	82.5	143.1	140.7	2.46	58.219		
800.0	797.5	787.4	786.2	1.6	1.5	123.65	106.7	87.7	158.5	155.6	2.89	54.867		
900.0	895.9	885.0	883.6	2.0	1.7	128.13	111.3	92.8	176.0	172.7	3.31	53.114		
1,000.0	994.3	982.5	980.9	2.3	1.9	131.82	116.0	98.0	194.4	190.7	3.73	52.069		
1,100.0	1,092.7	1,080.1	1,078.2	2.6	2.1	134.87	120.7	103.1	213.5	209.4	4.15	51.465		
1,200.0	1,191.1	1,177.7	1,175.6	3.0	2.3	137.41	125.4	108.3	233.1	228.5	4.56	51.136		
1,300.0	1,289.6	1,275.3	1,272.9	3.3	2.5	139.57	130.0	113.4	253.1	248.1	4.96	50.981		
1,400.0	1,388.0	1,372.9	1,370.2	3.7	2.7	141.41	134.7	118.6	273.3	267.9	5.37	50.937 SF		
1,500.0	1,486.4	1,470.4	1,467.5	4.0	2.9	142.99	139.4	123.7	293.8	288.0	5.76	50.965		
1,600.0	1,584.8	1,568.0	1,564.9	4.4	3.2	144.37	144.1	128.9	314.5	308.3	6.16	51.038		
1,700.0	1,683.2	1,665.6	1,662.2	4.8	3.4	145.58	148.7	134.0	335.3	328.7	6.56	51.140		
1,800.0	1,781.7	1,763.2	1,759.5	5.1	3.6	146.65	153.4	139.2	356.2	349.3	6.95	51.259		
1,900.0	1,880.1	1,860.7	1,856.9	5.5	3.8	147.60	158.1	144.3	377.3	369.9	7.34	51.389		
2,000.0	1,978.5	1,958.3	1,954.2	5.8	4.0	148.44	162.8	149.5	398.4	390.7	7.73	51.524		
2,100.0	2,076.9	2,055.9	2,051.5	6.2	4.2	149.21	167.4	154.6	419.6	411.5	8.12	51.660		
2,200.0	2,175.3	2,153.5	2,148.8	6.5	4.4	149.90	172.1	159.8	440.9	432.4	8.51	51.795		
2,300.0	2,273.8	2,251.0	2,246.2	6.9	4.6	150.52	176.8	164.9	462.3	453.4	8.90	51.929		
2,400.0	2,372.2	2,348.6	2,343.5	7.2	4.8	151.10	181.5	170.1	483.7	474.4	9.29	52.059		
2,500.0	2,470.6	2,446.2	2,440.8	7.6	5.0	151.62	186.1	175.3	505.1	495.4	9.68	52.185		
2,600.0	2,569.0	2,543.8	2,538.2	8.0	5.2	152.10	190.8	180.4	526.6	516.5	10.07	52.308		
2,700.0	2,667.4	2,641.4	2,635.5	8.3	5.5	152.54	195.5	185.6	548.1	537.6	10.45	52.426		
2,800.0	2,765.9	2,738.9	2,732.8	8.7	5.7	152.95	200.2	190.7	569.6	558.8	10.84	52.539		
2,900.0	2,864.3	2,836.5	2,830.1	9.0	5.9	153.33	204.8	195.9	591.1	579.9	11.23	52.648		
3,000.0	2,962.7	2,934.1	2,927.5	9.4	6.1	153.68	209.5	201.0	612.7	601.1	11.62	52.753		
3,100.0	3,061.1	3,031.7	3,024.8	9.7	6.3	154.01	214.2	206.2	634.3	622.3	12.00	52.853		
3,200.0	3,159.5	3,129.2	3,122.1	10.1	6.5	154.32	218.9	211.3	655.9	643.6	12.39	52.950		
3,300.0	3,258.0	3,226.8	3,219.5	10.5	6.7	154.61	223.5	216.5	677.6	664.8	12.77	53.042		
3,400.0	3,356.4	3,324.4	3,316.8	10.8	6.9	154.88	228.2	221.6	699.2	686.1	13.16	53.131		
3,500.0	3,454.8	3,422.0	3,414.1	11.2	7.1	155.13	232.9	226.8	720.9	707.3	13.55	53.216		
3,600.0	3,553.2	3,519.5	3,511.4	11.5	7.3	155.37	237.6	231.9	742.6	728.6	13.93	53.297		
3,700.0	3,651.6	3,617.1	3,608.8	11.9	7.5	155.60	242.3	237.1	764.3	749.9	14.32	53.376		
3,800.0	3,750.1	3,714.7	3,706.1	12.2	7.8	155.81	246.9	242.2	786.0	771.2	14.70	53.451		
3,900.0	3,848.5	3,812.3	3,803.4	12.6	8.0	156.01	251.6	247.4	807.7	792.6	15.09	53.524		
4,000.0	3,946.9	3,909.9	3,900.8	13.0	8.2	156.20	256.3	252.6	829.4	813.9	15.48	53.593		
4,100.0	4,045.3	4,007.4	3,998.1	13.3	8.4	156.38	261.0	257.7	851.1	835.2	15.86	53.660		
4,200.0	4,143.7	4,105.0	4,095.4	13.7	8.6	156.56	265.6	262.9	872.8	856.6	16.25	53.724		
4,300.0	4,242.2	4,202.6	4,192.7	14.0	8.8	156.72	270.3	268.0	894.6	877.9	16.63	53.786		
4,400.0	4,340.6	4,300.2	4,290.1	14.4	9.0	156.88	275.0	273.2	916.3	899.3	17.02	53.846		
4,500.0	4,439.0	4,397.7	4,387.4	14.8	9.2	157.02	279.7	278.3	938.1	920.7	17.40	53.904		
4,600.0	4,537.4	4,495.3	4,484.7	15.1	9.4	157.17	284.3	283.5	959.8	942.0	17.79	53.959		
4,700.0	4,635.8	4,592.9	4,582.1	15.5	9.6	157.30	289.0	288.6	981.6	963.4	18.17	54.013		
4,800.0	4,734.3	4,690.5	4,679.4	15.8	9.8	157.43	293.7	293.8	1,003.4	984.8	18.56	54.064		
4,900.0	4,832.7	4,788.0	4,776.7	16.2	10.1	157.56	298.4	298.9	1,025.1	1,006.2	18.94	54.114		
5,000.0	4,931.1	4,885.6	4,874.0	16.5	10.3	157.68	303.0	304.1	1,046.9	1,027.6	19.33	54.163		
5,100.0	5,029.5	4,983.2	4,971.4	16.9	10.5	157.79	307.7	309.2	1,068.7	1,049.0	19.71	54.209		

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 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-23D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,127.9	5,080.8	5,068.7	17.3	10.7	157.90	312.4	314.4	1,090.5	1,070.4	20.10	54.254		
5,300.0	5,226.4	5,178.4	5,166.0	17.6	10.9	158.01	317.1	319.5	1,112.3	1,091.8	20.48	54.298		
5,400.0	5,324.8	5,275.9	5,263.4	18.0	11.1	158.11	321.7	324.7	1,134.1	1,113.2	20.87	54.340		
5,500.0	5,423.2	5,373.5	5,360.7	18.3	11.3	158.21	326.4	329.8	1,155.9	1,134.6	21.26	54.381		
5,600.0	5,521.6	5,471.1	5,458.0	18.7	11.5	158.30	331.1	335.0	1,177.7	1,156.0	21.64	54.420		
5,700.0	5,620.0	5,568.7	5,555.3	19.1	11.7	158.39	335.8	340.2	1,199.5	1,177.5	22.03	54.459		
5,800.0	5,718.5	5,666.2	5,652.7	19.4	11.9	158.48	340.4	345.3	1,221.3	1,198.9	22.41	54.496		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 139-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	36.60	71.4	53.0	88.9					
100.0	100.0	99.1	99.1	0.1	0.1	36.57	71.8	53.3	89.4	89.1	0.28	315.868		
200.0	200.0	197.8	197.8	0.3	0.3	36.44	73.2	54.1	91.0	90.4	0.62	146.044		
300.0	300.0	296.0	295.9	0.5	0.5	35.79	76.5	55.1	94.4	93.4	0.98	95.998		
400.0	400.0	392.7	392.4	0.7	0.7	105.28	82.5	56.2	100.6	99.3	1.32	76.423		
500.0	499.8	488.8	488.0	0.9	0.9	105.48	92.1	58.0	111.2	109.5	1.69	65.917		
600.0	599.5	587.7	586.2	1.1	1.2	106.24	104.5	59.3	124.5	122.4	2.10	59.214		
700.0	698.7	686.5	683.9	1.3	1.5	107.19	118.2	58.6	138.7	136.1	2.57	53.876		
800.0	797.5	784.1	780.5	1.6	1.8	108.96	132.2	57.9	154.5	151.4	3.10	49.897		
900.0	895.9	880.0	875.5	2.0	2.1	111.70	145.9	58.9	172.2	168.6	3.63	47.506		
1,000.0	994.3	978.3	972.7	2.3	2.4	114.01	160.2	60.3	190.8	186.6	4.18	45.662		
1,100.0	1,092.7	1,073.7	1,067.0	2.6	2.7	115.86	174.6	62.1	210.3	205.5	4.73	44.495		
1,200.0	1,191.1	1,171.4	1,163.4	3.0	3.0	117.24	190.3	63.8	230.5	225.2	5.29	43.552		
1,300.0	1,289.6	1,270.0	1,260.8	3.3	3.3	118.48	205.8	65.8	250.8	244.9	5.85	42.856		
1,400.0	1,388.0	1,371.2	1,360.9	3.7	3.6	119.70	220.6	67.3	270.1	263.7	6.42	42.093		
1,500.0	1,486.4	1,468.3	1,457.0	4.0	3.9	120.82	234.2	69.0	289.3	282.3	6.97	41.526		
1,600.0	1,584.8	1,566.5	1,554.2	4.4	4.2	121.86	247.9	71.0	308.8	301.2	7.52	41.078		
1,700.0	1,683.2	1,667.0	1,653.8	4.8	4.5	122.79	261.6	72.5	327.8	319.7	8.07	40.606		
1,800.0	1,781.7	1,766.4	1,752.3	5.1	4.8	123.63	274.7	73.6	346.2	337.6	8.62	40.161		
1,900.0	1,880.1	1,864.2	1,849.3	5.5	5.0	124.44	287.2	74.9	364.7	355.6	9.16	39.820		
2,000.0	1,978.5	1,960.8	1,945.1	5.8	5.3	125.24	299.2	76.6	383.5	373.8	9.69	39.584		
2,100.0	2,076.9	2,057.0	2,040.5	6.2	5.6	126.04	311.0	79.1	402.8	392.6	10.21	39.458		
2,200.0	2,175.3	2,156.1	2,138.9	6.5	5.9	126.77	323.4	81.6	422.4	411.6	10.74	39.336		
2,300.0	2,273.8	2,256.4	2,238.3	6.9	6.1	127.45	335.6	83.7	441.5	430.2	11.27	39.179		
2,400.0	2,372.2	2,351.9	2,333.1	7.2	6.4	128.03	347.3	85.6	460.5	448.7	11.79	39.059		
2,500.0	2,470.6	2,447.2	2,427.6	7.6	6.7	128.50	359.8	88.0	480.4	468.1	12.32	38.992		
2,600.0	2,569.0	2,542.1	2,521.4	8.0	7.0	128.78	373.5	89.9	500.6	487.8	12.87	38.901		
2,700.0	2,667.4	2,638.3	2,616.5	8.3	7.3	128.93	388.6	91.9	521.7	508.2	13.42	38.858		
2,800.0	2,765.9	2,739.9	2,716.9	8.7	7.6	129.12	404.0	94.1	542.4	528.4	13.99	38.760		
2,900.0	2,864.3	2,841.0	2,816.8	9.0	7.9	129.26	419.4	95.3	562.3	547.8	14.57	38.600		
3,000.0	2,962.7	2,940.7	2,915.2	9.4	8.3	129.32	434.7	95.9	581.9	566.8	15.14	38.424		
3,100.0	3,061.1	3,045.1	3,018.5	9.7	8.6	129.42	450.3	96.2	600.9	585.2	15.72	38.220		
3,200.0	3,159.5	3,135.6	3,108.0	10.1	8.9	129.55	463.3	96.6	619.9	603.6	16.26	38.117		
3,300.0	3,258.0	3,218.6	3,190.1	10.5	9.1	129.65	476.0	98.3	640.6	623.8	16.78	38.168		
3,400.0	3,356.4	3,316.5	3,286.6	10.8	9.5	129.76	491.9	101.6	663.0	645.6	17.34	38.235		
3,500.0	3,454.8	3,430.7	3,399.5	11.2	9.8	129.93	509.1	104.3	683.8	665.9	17.94	38.124		
3,600.0	3,553.2	3,517.1	3,484.9	11.5	10.1	130.00	522.3	105.5	704.1	685.6	18.48	38.104		
3,700.0	3,651.6	3,615.8	3,582.2	11.9	10.4	130.04	538.2	107.7	725.4	706.3	19.04	38.094		
3,800.0	3,750.1	3,702.4	3,667.6	12.2	10.7	130.08	552.3	109.9	747.0	727.4	19.59	38.136		
3,900.0	3,848.5	3,784.1	3,747.9	12.6	11.0	130.02	567.5	112.7	770.5	750.4	20.14	38.262		
4,000.0	3,946.9	3,882.4	3,844.1	13.0	11.4	129.88	587.2	116.7	795.3	774.6	20.74	38.340		
4,100.0	4,045.3	3,988.1	3,947.6	13.3	11.8	129.68	608.5	119.6	819.1	797.7	21.39	38.290		
4,200.0	4,143.7	4,092.1	4,049.5	13.7	12.2	129.47	629.3	121.6	842.0	819.9	22.02	38.239		
4,300.0	4,242.2	4,192.1	4,147.6	14.0	12.6	129.32	648.5	123.3	864.3	841.7	22.64	38.172		
4,400.0	4,340.6	4,281.8	4,235.4	14.4	13.0	129.12	666.8	124.4	887.0	863.7	23.25	38.145		
4,500.0	4,439.0	4,384.6	4,336.0	14.8	13.4	128.90	687.9	125.9	909.8	886.0	23.88	38.096		
4,600.0	4,537.4	4,486.2	4,435.7	15.1	13.8	128.78	707.4	127.6	932.1	907.6	24.50	38.041		
4,700.0	4,635.8	4,589.2	4,536.9	15.5	14.1	128.70	726.2	129.1	953.9	928.8	25.11	37.985		
4,800.0	4,734.3	4,691.3	4,637.5	15.8	14.5	128.67	744.0	130.7	975.3	949.6	25.71	37.930		
4,900.0	4,832.7	4,792.3	4,737.1	16.2	14.8	128.69	760.7	132.0	996.0	969.7	26.30	37.866		
5,000.0	4,931.1	4,884.5	4,827.9	16.5	15.1	128.68	776.6	133.4	1,017.2	990.3	26.87	37.849		
5,100.0	5,029.5	4,988.9	4,930.8	16.9	15.5	128.70	793.8	135.0	1,038.1	1,010.6	27.47	37.793		

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 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-25D - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 139-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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	5,127.9	5,084.2	5,024.9	17.3	15.8	128.75	809.1	136.5	1,058.7	1,030.7	28.04	37.759		
5,300.0	5,226.4	5,177.5	5,116.7	17.6	16.1	128.73	825.3	137.8	1,080.0	1,051.3	28.62	37.736		
5,400.0	5,324.8	5,280.6	5,218.3	18.0	16.5	128.71	842.9	139.2	1,101.1	1,071.9	29.22	37.688		
5,500.0	5,423.2	5,388.1	5,324.5	18.3	16.8	128.76	860.0	140.7	1,121.5	1,091.7	29.81	37.619		
5,600.0	5,521.6	5,493.7	5,428.8	18.7	17.2	128.82	876.1	141.5	1,141.1	1,110.7	30.41	37.530		
5,700.0	5,620.0	5,587.3	5,521.3	19.1	17.5	128.85	890.6	141.9	1,160.5	1,129.5	30.98	37.465		
5,800.0	5,718.5	5,669.1	5,601.9	19.4	17.8	128.85	904.2	142.4	1,180.8	1,149.3	31.52	37.464 SF		
5,900.0	5,816.9	5,757.5	5,689.0	19.8	18.1	128.83	919.7	144.1	1,202.5	1,170.4	32.08	37.489		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-143.28	-60.1	-44.8	75.0					
100.0	100.0	100.0	100.0	0.1	0.1	-143.28	-60.1	-44.8	75.0	74.7	0.27	275.386		
200.0	200.0	200.0	200.0	0.3	0.3	-143.28	-60.1	-44.8	75.0	74.4	0.62	120.675 CC, ES		
300.0	300.0	297.4	297.4	0.5	0.5	-143.21	-61.4	-45.9	76.7	75.7	0.97	79.128		
400.0	400.0	394.6	394.5	0.7	0.7	-73.88	-65.2	-49.1	81.3	80.0	1.31	61.895		
500.0	499.8	491.4	490.9	0.9	0.9	-76.53	-71.5	-54.3	88.4	86.7	1.67	52.804		
600.0	599.5	587.6	586.4	1.1	1.1	-80.33	-80.2	-61.6	98.4	96.3	2.06	47.637		
700.0	698.7	683.0	680.7	1.3	1.4	-84.63	-91.3	-70.9	111.6	109.1	2.51	44.547		
800.0	797.5	777.3	773.4	1.6	1.8	-88.89	-104.6	-82.0	128.5	125.4	3.02	42.563		
900.0	895.9	870.5	864.4	2.0	2.2	-92.67	-120.0	-94.9	149.0	145.4	3.57	41.771		
1,000.0	994.3	967.6	958.8	2.3	2.6	-95.44	-137.3	-109.4	171.5	167.4	4.15	41.307		
1,100.0	1,092.7	1,064.7	1,053.3	2.6	3.0	-97.57	-154.7	-123.9	194.3	189.6	4.75	40.873		
1,200.0	1,191.1	1,161.8	1,147.7	3.0	3.4	-99.25	-172.0	-138.4	217.4	212.0	5.37	40.480		
1,300.0	1,289.6	1,259.0	1,242.2	3.3	3.8	-100.61	-189.4	-152.9	240.5	234.5	5.99	40.133		
1,400.0	1,388.0	1,356.1	1,336.7	3.7	4.3	-101.73	-206.7	-167.4	263.8	257.2	6.62	39.830		
1,500.0	1,486.4	1,453.2	1,431.1	4.0	4.7	-102.67	-224.0	-181.9	287.2	279.9	7.26	39.565		
1,600.0	1,584.8	1,550.4	1,525.6	4.4	5.1	-103.47	-241.4	-196.4	310.6	302.7	7.90	39.333		
1,700.0	1,683.2	1,647.5	1,620.1	4.8	5.5	-104.16	-258.7	-210.9	334.1	325.5	8.54	39.128		
1,800.0	1,781.7	1,744.6	1,714.6	5.1	6.0	-104.75	-276.1	-225.4	357.6	348.4	9.18	38.948		
1,900.0	1,880.1	1,841.8	1,809.0	5.5	6.4	-105.28	-293.4	-239.9	381.1	371.3	9.83	38.788		
2,000.0	1,978.5	1,938.9	1,903.5	5.8	6.8	-105.74	-310.7	-254.4	404.7	394.2	10.47	38.645		
2,100.0	2,076.9	2,036.1	1,998.0	6.2	7.3	-106.15	-328.1	-268.9	428.3	417.1	11.12	38.516		
2,200.0	2,175.3	2,133.2	2,092.4	6.5	7.7	-106.52	-345.4	-283.4	451.9	440.1	11.77	38.401		
2,300.0	2,273.8	2,230.3	2,186.9	6.9	8.1	-106.85	-362.7	-297.9	475.5	463.1	12.42	38.296		
2,400.0	2,372.2	2,327.5	2,281.4	7.2	8.6	-107.15	-380.1	-312.4	499.1	486.1	13.07	38.201		
2,500.0	2,470.6	2,424.6	2,375.8	7.6	9.0	-107.42	-397.4	-326.9	522.8	509.1	13.72	38.114		
2,600.0	2,569.0	2,521.7	2,470.3	8.0	9.4	-107.67	-414.8	-341.3	546.4	532.1	14.37	38.034		
2,700.0	2,667.4	2,618.9	2,564.8	8.3	9.9	-107.90	-432.1	-355.8	570.1	555.1	15.02	37.961		
2,800.0	2,765.9	2,716.0	2,659.2	8.7	10.3	-108.11	-449.4	-370.3	593.8	578.1	15.67	37.894		
2,900.0	2,864.3	2,813.1	2,753.7	9.0	10.7	-108.31	-466.8	-384.8	617.4	601.1	16.32	37.832		
3,000.0	2,962.7	2,910.3	2,848.2	9.4	11.1	-108.49	-484.1	-399.3	641.1	624.2	16.97	37.774		
3,100.0	3,061.1	3,007.4	2,942.7	9.7	11.6	-108.65	-501.4	-413.8	664.8	647.2	17.63	37.720		
3,200.0	3,159.5	3,104.5	3,037.1	10.1	12.0	-108.81	-518.8	-428.3	688.5	670.3	18.28	37.670		
3,300.0	3,258.0	3,201.7	3,131.6	10.5	12.4	-108.95	-536.1	-442.8	712.2	693.3	18.93	37.623		
3,400.0	3,356.4	3,298.8	3,226.1	10.8	12.9	-109.09	-553.5	-457.3	735.9	716.4	19.58	37.580		
3,500.0	3,454.8	3,395.9	3,320.5	11.2	13.3	-109.22	-570.8	-471.8	759.6	739.4	20.24	37.539		
3,600.0	3,553.2	3,493.1	3,415.0	11.5	13.7	-109.34	-588.1	-486.3	783.4	762.5	20.89	37.500		
3,700.0	3,651.6	3,590.2	3,509.5	11.9	14.2	-109.45	-605.5	-500.8	807.1	785.5	21.54	37.464		
3,800.0	3,750.1	3,687.3	3,603.9	12.2	14.6	-109.56	-622.8	-515.3	830.8	808.6	22.20	37.430		
3,900.0	3,848.5	3,784.5	3,698.4	12.6	15.0	-109.66	-640.2	-529.8	854.5	831.7	22.85	37.397		
4,000.0	3,946.9	3,881.6	3,792.9	13.0	15.5	-109.75	-657.5	-544.3	878.2	854.7	23.50	37.367		
4,100.0	4,045.3	3,978.8	3,887.4	13.3	15.9	-109.84	-674.8	-558.8	902.0	877.8	24.16	37.338		
4,200.0	4,143.7	4,075.9	3,981.8	13.7	16.3	-109.93	-692.2	-573.3	925.7	900.9	24.81	37.311		
4,300.0	4,242.2	4,173.0	4,076.3	14.0	16.8	-110.01	-709.5	-587.8	949.4	924.0	25.46	37.284		
4,400.0	4,340.6	4,270.2	4,170.8	14.4	17.2	-110.09	-726.8	-602.3	973.2	947.0	26.12	37.260		
4,500.0	4,439.0	4,367.3	4,265.2	14.8	17.6	-110.16	-744.2	-616.8	996.9	970.1	26.77	37.236		
4,600.0	4,537.4	4,464.4	4,359.7	15.1	18.1	-110.23	-761.5	-631.3	1,020.6	993.2	27.43	37.213		
4,700.0	4,635.8	4,561.6	4,454.2	15.5	18.5	-110.30	-778.9	-645.8	1,044.4	1,016.3	28.08	37.192		
4,800.0	4,734.3	4,658.7	4,548.6	15.8	18.9	-110.36	-796.2	-660.3	1,068.1	1,039.4	28.73	37.171		
4,900.0	4,832.7	4,755.8	4,643.1	16.2	19.4	-110.42	-813.5	-674.7	1,091.8	1,062.5	29.39	37.152		
5,000.0	4,931.1	4,853.0	4,737.6	16.5	19.8	-110.48	-830.9	-689.2	1,115.6	1,085.5	30.04	37.133		
5,100.0	5,029.5	4,950.1	4,832.0	16.9	20.2	-110.54	-848.2	-703.7	1,139.3	1,108.6	30.70	37.115		

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 6-37D
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 6-37D	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												
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						
5,200.0	5,127.9	5,047.2	4,926.5	17.3	20.7	-110.59	-865.5	-718.2	1,163.1	1,131.7	31.35	37.098							
5,300.0	5,226.4	5,144.4	5,021.0	17.6	21.1	-110.64	-882.9	-732.7	1,186.8	1,154.8	32.01	37.081							
5,400.0	5,324.8	5,241.5	5,115.5	18.0	21.5	-110.69	-900.2	-747.2	1,210.6	1,177.9	32.66	37.065 SF							

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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)				
0.0	0.0	0.0	0.0	0.0	0.0	-143.11	-48.1	-36.1	60.1					
100.0	100.0	100.0	100.0	0.1	0.1	-143.11	-48.1	-36.1	60.1	59.8	0.27	220.805		
200.0	200.0	200.0	200.0	0.3	0.3	-143.11	-48.1	-36.1	60.1	59.5	0.62	96.757		
300.0	300.0	300.0	300.0	0.5	0.5	-143.11	-48.1	-36.1	60.1	59.1	0.97	61.952 CC, ES		
400.0	400.0	398.0	397.9	0.7	0.7	-74.05	-49.2	-37.4	61.3	60.0	1.32	46.474		
500.0	499.8	495.8	495.6	0.9	0.8	-77.24	-52.4	-41.2	64.9	63.2	1.68	38.601		
600.0	599.5	593.2	592.7	1.1	1.1	-81.77	-57.7	-47.6	71.4	69.3	2.08	34.349		
700.0	698.7	690.2	689.0	1.3	1.3	-86.82	-65.1	-56.4	81.0	78.5	2.53	32.052		
800.0	797.5	786.5	784.1	1.6	1.6	-91.67	-74.6	-67.7	94.2	91.1	3.06	30.820		
900.0	895.9	882.1	878.1	2.0	1.9	-95.54	-86.0	-81.3	110.7	107.1	3.62	30.565		
1,000.0	994.3	980.3	974.3	2.3	2.3	-98.07	-98.6	-96.4	128.8	124.6	4.22	30.516		
1,100.0	1,092.7	1,078.5	1,070.5	2.6	2.6	-99.97	-111.3	-111.5	147.1	142.3	4.84	30.418		
1,200.0	1,191.1	1,176.7	1,166.8	3.0	3.0	-101.45	-123.9	-126.6	165.6	160.1	5.46	30.302		
1,300.0	1,289.6	1,275.0	1,263.0	3.3	3.4	-102.64	-136.6	-141.7	184.1	178.0	6.10	30.186		
1,400.0	1,388.0	1,373.2	1,359.2	3.7	3.8	-103.61	-149.3	-156.8	202.7	195.9	6.74	30.076		
1,500.0	1,486.4	1,471.4	1,455.4	4.0	4.2	-104.41	-161.9	-171.9	221.3	213.9	7.38	29.975		
1,600.0	1,584.8	1,569.6	1,551.6	4.4	4.5	-105.10	-174.6	-187.0	240.0	231.9	8.03	29.883		
1,700.0	1,683.2	1,667.8	1,647.8	4.8	4.9	-105.68	-187.3	-202.1	258.7	250.0	8.68	29.800		
1,800.0	1,781.7	1,766.0	1,744.0	5.1	5.3	-106.18	-199.9	-217.2	277.4	268.0	9.33	29.725		
1,900.0	1,880.1	1,864.2	1,840.2	5.5	5.7	-106.62	-212.6	-232.3	296.1	286.1	9.98	29.657		
2,000.0	1,978.5	1,962.4	1,936.4	5.8	6.1	-107.01	-225.3	-247.4	314.8	304.2	10.64	29.596		
2,100.0	2,076.9	2,060.6	2,032.6	6.2	6.5	-107.35	-237.9	-262.5	333.6	322.3	11.29	29.540		
2,200.0	2,175.3	2,158.8	2,128.8	6.5	6.8	-107.66	-250.6	-277.6	352.4	340.4	11.95	29.489		
2,300.0	2,273.8	2,257.0	2,225.0	6.9	7.2	-107.94	-263.3	-292.7	371.2	358.5	12.61	29.443		
2,400.0	2,372.2	2,355.2	2,321.2	7.2	7.6	-108.19	-275.9	-307.8	389.9	376.7	13.26	29.400		
2,500.0	2,470.6	2,453.4	2,417.5	7.6	8.0	-108.42	-288.6	-322.9	408.7	394.8	13.92	29.361		
2,600.0	2,569.0	2,551.6	2,513.7	8.0	8.4	-108.62	-301.2	-338.0	427.5	413.0	14.58	29.325		
2,700.0	2,667.4	2,649.8	2,609.9	8.3	8.8	-108.81	-313.9	-353.1	446.3	431.1	15.24	29.292		
2,800.0	2,765.9	2,748.0	2,706.1	8.7	9.2	-108.99	-326.6	-368.2	465.1	449.2	15.90	29.261		
2,900.0	2,864.3	2,846.3	2,802.3	9.0	9.5	-109.15	-339.2	-383.3	484.0	467.4	16.56	29.233		
3,000.0	2,962.7	2,944.5	2,898.5	9.4	9.9	-109.30	-351.9	-398.4	502.8	485.6	17.21	29.206		
3,100.0	3,061.1	3,042.7	2,994.7	9.7	10.3	-109.43	-364.6	-413.5	521.6	503.7	17.87	29.181		
3,200.0	3,159.5	3,140.9	3,090.9	10.1	10.7	-109.56	-377.2	-428.6	540.4	521.9	18.53	29.158		
3,300.0	3,258.0	3,239.1	3,187.1	10.5	11.1	-109.68	-389.9	-443.7	559.2	540.0	19.19	29.136		
3,400.0	3,356.4	3,337.3	3,283.3	10.8	11.5	-109.79	-402.6	-458.8	578.0	558.2	19.85	29.116		
3,500.0	3,454.8	3,435.5	3,379.5	11.2	11.9	-109.90	-415.2	-473.9	596.9	576.4	20.51	29.097		
3,600.0	3,553.2	3,533.7	3,475.7	11.5	12.2	-110.00	-427.9	-489.1	615.7	594.5	21.17	29.079		
3,700.0	3,651.6	3,631.9	3,571.9	11.9	12.6	-110.09	-440.6	-504.2	634.5	612.7	21.83	29.062		
3,800.0	3,750.1	3,730.1	3,668.2	12.2	13.0	-110.18	-453.2	-519.3	653.4	630.9	22.49	29.045		
3,900.0	3,848.5	3,828.3	3,764.4	12.6	13.4	-110.26	-465.9	-534.4	672.2	649.0	23.16	29.030		
4,000.0	3,946.9	3,926.5	3,860.6	13.0	13.8	-110.34	-478.5	-549.5	691.0	667.2	23.82	29.016		
4,100.0	4,045.3	4,024.7	3,956.8	13.3	14.2	-110.41	-491.2	-564.6	709.9	685.4	24.48	29.002		
4,200.0	4,143.7	4,122.9	4,053.0	13.7	14.6	-110.48	-503.9	-579.7	728.7	703.6	25.14	28.989		
4,300.0	4,242.2	4,221.1	4,149.2	14.0	15.0	-110.55	-516.5	-594.8	747.5	721.7	25.80	28.977		
4,400.0	4,340.6	4,319.3	4,245.4	14.4	15.3	-110.61	-529.2	-609.9	766.4	739.9	26.46	28.965		
4,500.0	4,439.0	4,417.5	4,341.6	14.8	15.7	-110.67	-541.9	-625.0	785.2	758.1	27.12	28.953		
4,600.0	4,537.4	4,515.8	4,437.8	15.1	16.1	-110.73	-554.5	-640.1	804.1	776.3	27.78	28.943		
4,700.0	4,635.8	4,614.0	4,534.0	15.5	16.5	-110.78	-567.2	-655.2	822.9	794.5	28.44	28.932		
4,800.0	4,734.3	4,712.2	4,630.2	15.8	16.9	-110.84	-579.9	-670.3	841.7	812.6	29.10	28.923		
4,900.0	4,832.7	4,810.4	4,726.4	16.2	17.3	-110.89	-592.5	-685.4	860.6	830.8	29.76	28.913		
5,000.0	4,931.1	4,908.6	4,822.7	16.5	17.7	-110.93	-605.2	-700.5	879.4	849.0	30.43	28.904		
5,100.0	5,029.5	5,006.8	4,918.9	16.9	18.1	-110.98	-617.9	-715.6	898.3	867.2	31.09	28.895		

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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		
5,200.0	5,127.9	5,105.0	5,015.1	17.3	18.4	-111.02	-630.5	-730.7	917.1	885.4	31.75	28.887		
5,300.0	5,226.4	5,203.2	5,111.3	17.6	18.8	-111.06	-643.2	-745.8	936.0	903.5	32.41	28.879		
5,400.0	5,324.8	5,301.4	5,207.5	18.0	19.2	-111.11	-655.8	-760.9	954.8	921.7	33.07	28.871		
5,500.0	5,423.2	5,399.6	5,303.7	18.3	19.6	-111.14	-668.5	-776.0	973.6	939.9	33.73	28.864		
5,600.0	5,521.6	5,497.8	5,399.9	18.7	20.0	-111.18	-681.2	-791.1	992.5	958.1	34.39	28.857		
5,700.0	5,620.0	5,596.0	5,496.1	19.1	20.4	-111.22	-693.8	-806.2	1,011.3	976.3	35.06	28.850		
5,800.0	5,718.5	5,694.2	5,592.3	19.4	20.8	-111.25	-706.5	-821.3	1,030.2	994.5	35.72	28.843		
5,900.0	5,816.9	5,792.4	5,688.5	19.8	21.2	-111.29	-719.2	-836.4	1,049.0	1,012.7	36.38	28.837		
6,000.0	5,915.3	5,890.6	5,784.7	20.1	21.5	-111.32	-731.8	-851.5	1,067.9	1,030.8	37.04	28.831		
6,100.0	6,013.7	5,988.8	5,880.9	20.5	21.9	-111.35	-744.5	-866.6	1,086.7	1,049.0	37.70	28.825		
6,200.0	6,112.1	6,087.1	5,977.1	20.8	22.3	-111.38	-757.2	-881.7	1,105.6	1,067.2	38.36	28.819		
6,300.0	6,210.6	6,185.3	6,073.4	21.2	22.7	-111.41	-769.8	-896.9	1,124.4	1,085.4	39.02	28.814		
6,400.0	6,309.0	6,283.5	6,169.6	21.6	23.1	-111.44	-782.5	-912.0	1,143.3	1,103.6	39.69	28.808		
6,500.0	6,407.4	6,381.7	6,265.8	21.9	23.5	-111.46	-795.2	-927.1	1,162.1	1,121.8	40.35	28.803		
6,600.0	6,505.8	6,479.9	6,362.0	22.3	23.9	-111.49	-807.8	-942.2	1,181.0	1,140.0	41.01	28.798		
6,700.0	6,604.2	6,578.1	6,458.2	22.6	24.3	-111.52	-820.5	-957.3	1,199.8	1,158.1	41.67	28.793		
6,800.0	6,702.7	6,676.3	6,554.4	23.0	24.6	-111.54	-833.1	-972.4	1,218.7	1,176.3	42.33	28.788 SF		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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	-143.11	-36.1	-27.1	45.1					
100.0	100.0	100.0	100.0	0.1	0.1	-143.11	-36.1	-27.1	45.1	44.8	0.27	165.604		
200.0	200.0	200.0	200.0	0.3	0.3	-143.11	-36.1	-27.1	45.1	44.5	0.62	72.568		
300.0	300.0	300.0	300.0	0.5	0.5	-143.11	-36.1	-27.1	45.1	44.1	0.97	46.464		
400.0	400.0	400.0	400.0	0.7	0.7	-143.11	-36.1	-27.1	44.6	43.3	1.32	33.742		
500.0	499.8	499.8	499.8	0.9	0.8	-81.73	-36.1	-27.1	43.6	41.9	1.69	25.806		
528.3	528.1	527.7	527.7	0.9	0.9	-84.36	-36.1	-27.2	43.4	41.6	1.80	24.137 CC, ES		
600.0	599.5	598.4	598.3	1.1	1.0	-91.54	-36.9	-28.6	44.4	42.3	2.08	21.342		
700.0	698.7	696.8	696.7	1.3	1.2	-101.44	-39.3	-33.0	49.2	46.7	2.51	19.597		
800.0	797.5	795.2	794.7	1.6	1.4	-109.57	-43.3	-40.4	58.1	55.1	3.00	19.391		
900.0	895.9	893.4	892.1	2.0	1.6	-114.54	-48.9	-50.8	70.1	66.6	3.51	19.952		
1,000.0	994.3	991.4	989.0	2.3	1.9	-115.88	-56.1	-64.0	83.6	79.5	4.08	20.493		
1,100.0	1,092.7	1,089.7	1,085.6	2.6	2.2	-115.16	-64.7	-80.0	98.3	93.6	4.69	20.949		
1,200.0	1,191.1	1,188.5	1,182.6	3.0	2.6	-114.34	-73.7	-96.6	113.3	108.0	5.33	21.258		
1,300.0	1,289.6	1,287.4	1,279.7	3.3	2.9	-113.71	-82.7	-113.1	128.3	122.3	5.97	21.467		
1,400.0	1,388.0	1,386.3	1,376.7	3.7	3.3	-113.21	-91.7	-129.7	143.3	136.6	6.63	21.613		
1,500.0	1,486.4	1,485.1	1,473.8	4.0	3.6	-112.81	-100.6	-146.3	158.3	151.0	7.29	21.718		
1,600.0	1,584.8	1,584.0	1,570.8	4.4	4.0	-112.47	-109.6	-162.9	173.3	165.3	7.95	21.796		
1,700.0	1,683.2	1,682.9	1,667.9	4.8	4.3	-112.19	-118.6	-179.4	188.3	179.7	8.61	21.854		
1,800.0	1,781.7	1,781.7	1,764.9	5.1	4.7	-111.95	-127.6	-196.0	203.3	194.0	9.28	21.900		
1,900.0	1,880.1	1,880.6	1,862.0	5.5	5.1	-111.75	-136.5	-212.6	218.3	208.3	9.95	21.935		
2,000.0	1,978.5	1,979.4	1,959.0	5.8	5.4	-111.57	-145.5	-229.1	233.3	222.7	10.62	21.964		
2,100.0	2,076.9	2,078.3	2,056.1	6.2	5.8	-111.41	-154.5	-245.7	248.3	237.0	11.29	21.986		
2,200.0	2,175.3	2,177.2	2,153.1	6.5	6.2	-111.27	-163.5	-262.3	263.4	251.4	11.97	22.005		
2,300.0	2,273.8	2,276.0	2,250.2	6.9	6.5	-111.15	-172.4	-278.9	278.4	265.7	12.64	22.020		
2,400.0	2,372.2	2,374.9	2,347.2	7.2	6.9	-111.04	-181.4	-295.4	293.4	280.1	13.32	22.033		
2,500.0	2,470.6	2,473.8	2,444.3	7.6	7.3	-110.93	-190.4	-312.0	308.4	294.4	13.99	22.044		
2,600.0	2,569.0	2,572.6	2,541.3	8.0	7.6	-110.84	-199.4	-328.6	323.5	308.8	14.67	22.052		
2,700.0	2,667.4	2,671.5	2,638.4	8.3	8.0	-110.76	-208.3	-345.1	338.5	323.1	15.34	22.060		
2,800.0	2,765.9	2,770.4	2,735.4	8.7	8.4	-110.68	-217.3	-361.7	353.5	337.5	16.02	22.067		
2,900.0	2,864.3	2,869.2	2,832.5	9.0	8.8	-110.61	-226.3	-378.3	368.5	351.8	16.70	22.072		
3,000.0	2,962.7	2,968.1	2,929.5	9.4	9.1	-110.55	-235.3	-394.9	383.6	366.2	17.37	22.077		
3,100.0	3,061.1	3,066.9	3,026.6	9.7	9.5	-110.49	-244.2	-411.4	398.6	380.5	18.05	22.081		
3,200.0	3,159.5	3,165.8	3,123.6	10.1	9.9	-110.43	-253.2	-428.0	413.6	394.9	18.73	22.085		
3,300.0	3,258.0	3,264.7	3,220.7	10.5	10.3	-110.38	-262.2	-444.6	428.7	409.3	19.41	22.088		
3,400.0	3,356.4	3,363.5	3,317.7	10.8	10.6	-110.33	-271.2	-461.1	443.7	423.6	20.09	22.090		
3,500.0	3,454.8	3,462.4	3,414.8	11.2	11.0	-110.29	-280.1	-477.7	458.7	438.0	20.76	22.093		
3,600.0	3,553.2	3,561.3	3,511.8	11.5	11.4	-110.25	-289.1	-494.3	473.7	452.3	21.44	22.095		
3,700.0	3,651.6	3,660.1	3,608.9	11.9	11.8	-110.21	-298.1	-510.9	488.8	466.7	22.12	22.097		
3,800.0	3,750.1	3,759.0	3,705.9	12.2	12.1	-110.17	-307.1	-527.4	503.8	481.0	22.80	22.098		
3,900.0	3,848.5	3,857.9	3,803.0	12.6	12.5	-110.13	-316.0	-544.0	518.8	495.4	23.48	22.100		
4,000.0	3,946.9	3,956.7	3,900.0	13.0	12.9	-110.10	-325.0	-560.6	533.9	509.7	24.16	22.101		
4,100.0	4,045.3	4,055.6	3,997.1	13.3	13.2	-110.07	-334.0	-577.1	548.9	524.1	24.84	22.102		
4,200.0	4,143.7	4,154.4	4,094.1	13.7	13.6	-110.04	-343.0	-593.7	563.9	538.4	25.51	22.103		
4,300.0	4,242.2	4,253.3	4,191.2	14.0	14.0	-110.01	-351.9	-610.3	579.0	552.8	26.19	22.104		
4,400.0	4,340.6	4,352.2	4,288.2	14.4	14.4	-109.99	-360.9	-626.9	594.0	567.1	26.87	22.105		
4,500.0	4,439.0	4,451.0	4,385.3	14.8	14.7	-109.96	-369.9	-643.4	609.0	581.5	27.55	22.105		
4,600.0	4,537.4	4,549.9	4,482.3	15.1	15.1	-109.94	-378.9	-660.0	624.1	595.8	28.23	22.106		
4,700.0	4,635.8	4,648.8	4,579.4	15.5	15.5	-109.91	-387.8	-676.6	639.1	610.2	28.91	22.107		
4,800.0	4,734.3	4,747.6	4,676.4	15.8	15.9	-109.89	-396.8	-693.1	654.1	624.5	29.59	22.107		
4,900.0	4,832.7	4,846.5	4,773.5	16.2	16.2	-109.87	-405.8	-709.7	669.2	638.9	30.27	22.108		
5,000.0	4,931.1	4,945.3	4,870.5	16.5	16.6	-109.85	-414.8	-726.3	684.2	653.3	30.95	22.108		

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 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
5,100.0	5,029.5	5,044.2	4,967.6	16.9	17.0	-109.83	-423.7	-742.8	699.2	667.6	31.63	22.108		
5,200.0	5,127.9	5,143.1	5,064.6	17.3	17.4	-109.81	-432.7	-759.4	714.3	682.0	32.31	22.109		
5,300.0	5,226.4	5,241.9	5,161.7	17.6	17.7	-109.80	-441.7	-776.0	729.3	696.3	32.99	22.109		
5,400.0	5,324.8	5,340.8	5,258.7	18.0	18.1	-109.78	-450.7	-792.6	744.3	710.7	33.67	22.109		
5,500.0	5,423.2	5,439.7	5,355.8	18.3	18.5	-109.76	-459.6	-809.1	759.4	725.0	34.35	22.109		
5,600.0	5,521.6	5,538.5	5,452.9	18.7	18.9	-109.75	-468.6	-825.7	774.4	739.4	35.03	22.109		
5,700.0	5,620.0	5,637.4	5,549.9	19.1	19.2	-109.73	-477.6	-842.3	789.4	753.7	35.71	22.110		
5,800.0	5,718.5	5,736.3	5,647.0	19.4	19.6	-109.72	-486.6	-858.8	804.5	768.1	36.39	22.110		
5,900.0	5,816.9	5,835.1	5,744.0	19.8	20.0	-109.71	-495.5	-875.4	819.5	782.4	37.07	22.110		
6,000.0	5,915.3	5,934.0	5,841.1	20.1	20.4	-109.69	-504.5	-892.0	834.5	796.8	37.74	22.110		
6,100.0	6,013.7	6,032.8	5,938.1	20.5	20.7	-109.68	-513.5	-908.6	849.6	811.1	38.42	22.110		
6,200.0	6,112.1	6,131.7	6,035.2	20.8	21.1	-109.67	-522.5	-925.1	864.6	825.5	39.10	22.110		
6,300.0	6,210.6	6,230.6	6,132.2	21.2	21.5	-109.65	-531.4	-941.7	879.6	839.9	39.78	22.110		
6,400.0	6,309.0	6,329.4	6,229.3	21.6	21.9	-109.64	-540.4	-958.3	894.7	854.2	40.46	22.110		
6,500.0	6,407.4	6,428.3	6,326.3	21.9	22.2	-109.63	-549.4	-974.8	909.7	868.6	41.14	22.110		
6,600.0	6,505.8	6,527.2	6,423.4	22.3	22.6	-109.62	-558.4	-991.4	924.7	882.9	41.82	22.110		
6,700.0	6,604.2	6,626.0	6,520.4	22.6	23.0	-109.61	-567.3	-1,008.0	939.8	897.3	42.50	22.110		
6,800.0	6,702.7	6,724.9	6,617.5	23.0	23.4	-109.60	-576.3	-1,024.6	954.8	911.6	43.18	22.110		
6,900.0	6,801.1	6,831.7	6,722.4	23.4	23.8	-109.65	-585.8	-1,042.1	969.7	925.8	43.88	22.098		
7,000.0	6,899.9	6,949.7	6,839.0	23.7	24.1	-109.96	-594.4	-1,058.0	982.2	937.6	44.53	22.058		
7,100.0	6,999.1	7,068.3	6,956.9	23.9	24.4	-110.23	-600.7	-1,069.7	991.6	946.5	45.06	22.008		
7,200.0	7,098.8	7,187.4	7,075.6	24.1	24.6	-110.47	-604.7	-1,077.1	997.9	952.4	45.47	21.946		
7,300.0	7,198.6	7,306.6	7,194.7	24.2	24.7	-110.68	-606.4	-1,080.1	1,001.0	955.2	45.77	21.872		
7,400.0	7,298.6	7,408.8	7,297.0	24.3	24.8	-61.73	-606.5	-1,080.3	1,001.7	955.7	45.97	21.788		
7,500.0	7,398.6	7,506.7	7,394.9	24.4	24.9	-61.71	-606.8	-1,080.8	1,001.8	955.6	46.18	21.692		
7,600.0	7,498.6	7,604.6	7,492.8	24.5	25.0	-61.70	-607.3	-1,081.6	1,002.0	955.6	46.40	21.592		
7,700.0	7,598.6	7,702.9	7,591.0	24.6	25.1	-61.68	-608.0	-1,082.8	1,002.1	955.5	46.64	21.488		
7,800.0	7,698.6	7,802.9	7,691.0	24.7	25.2	-61.68	-608.7	-1,084.2	1,002.2	955.3	46.88	21.379		
7,900.0	7,798.6	7,902.9	7,791.0	24.8	25.4	-61.68	-609.5	-1,085.5	1,002.2	955.1	47.12	21.270		
8,000.0	7,898.6	8,002.9	7,891.0	25.0	25.5	-61.68	-610.3	-1,086.9	1,002.2	954.9	47.36	21.162		
8,100.0	7,998.6	8,102.9	7,991.0	25.1	25.6	-61.68	-611.1	-1,088.2	1,002.3	954.7	47.61	21.054		
8,200.0	8,098.6	8,202.9	8,091.0	25.2	25.7	-61.68	-611.9	-1,089.6	1,002.3	954.4	47.85	20.946		
8,300.0	8,198.5	8,302.9	8,191.0	25.3	25.8	-61.68	-612.6	-1,090.9	1,002.3	954.2	48.10	20.839		
8,400.0	8,298.5	8,402.9	8,291.0	25.4	26.0	-61.68	-613.4	-1,092.3	1,002.3	954.0	48.35	20.733		
8,500.0	8,398.5	8,502.9	8,390.9	25.5	26.1	-61.68	-614.2	-1,093.6	1,002.3	953.8	48.59	20.627		
8,600.0	8,498.5	8,602.9	8,490.9	25.6	26.2	-61.68	-615.0	-1,095.0	1,002.4	953.5	48.84	20.522		
8,700.0	8,598.5	8,702.9	8,590.9	25.8	26.3	-61.68	-615.7	-1,096.3	1,002.4	953.3	49.10	20.417		
8,800.0	8,698.5	8,802.9	8,690.9	25.9	26.4	-61.68	-616.5	-1,097.7	1,002.4	953.1	49.35	20.313		
8,900.0	8,798.5	8,902.9	8,790.9	26.0	26.6	-61.68	-617.3	-1,099.0	1,002.4	952.8	49.60	20.209		
9,000.0	8,898.5	9,002.9	8,890.9	26.1	26.7	-61.68	-618.1	-1,100.4	1,002.5	952.6	49.86	20.106		
9,100.0	8,998.5	9,102.9	8,990.9	26.2	26.8	-61.68	-618.9	-1,101.7	1,002.5	952.4	50.12	20.003		
9,200.0	9,098.4	9,202.9	9,090.9	26.4	26.9	-61.68	-619.6	-1,103.0	1,002.5	952.1	50.37	19.901		
9,300.0	9,198.4	9,302.9	9,190.8	26.5	27.1	-61.68	-620.4	-1,104.4	1,002.5	951.9	50.63	19.800		
9,400.0	9,298.4	9,402.9	9,290.8	26.6	27.2	-61.68	-621.2	-1,105.7	1,002.6	951.7	50.89	19.699		
9,500.0	9,398.4	9,502.9	9,390.8	26.7	27.3	-61.68	-622.0	-1,107.1	1,002.6	951.4	51.15	19.599		
9,600.0	9,498.4	9,602.9	9,490.8	26.8	27.4	-61.68	-622.8	-1,108.4	1,002.6	951.2	51.42	19.500		
9,700.0	9,598.4	9,702.9	9,590.8	27.0	27.6	-61.68	-623.5	-1,109.8	1,002.6	950.9	51.68	19.401		
9,800.0	9,698.4	9,802.9	9,690.8	27.1	27.7	-61.68	-624.3	-1,111.1	1,002.7	950.7	51.94	19.303		
9,900.0	9,798.4	9,902.9	9,790.8	27.2	27.8	-61.68	-625.1	-1,112.5	1,002.7	950.5	52.21	19.205		
10,000.0	9,898.3	10,002.9	9,890.8	27.3	28.0	-61.68	-625.9	-1,113.8	1,002.7	950.2	52.48	19.108		
10,051.0	9,949.4	10,053.9	9,941.8	27.4	28.0	-61.68	-626.3	-1,114.5	1,002.7	950.1	52.61	19.059		
10,100.0	9,998.3	10,081.1	9,969.0	27.5	28.1	-61.68	-626.5	-1,114.9	1,003.0	950.2	52.71	19.027 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 6-37D
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 6-37D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 6 T6S R96W (F06 696) - Chevron 6-34D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
10,145.7	10,044.0	10,081.1	9,969.0	27.5	28.1	-61.68	-626.5	-1,114.9	1,005.0	952.2	52.77	19.043		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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)				
0.0	0.0	0.0	0.0	0.0	0.0	-143.11	-24.0	-18.0	30.1					
100.0	100.0	100.0	100.0	0.1	0.1	-143.11	-24.0	-18.0	30.1	29.8	0.27	110.402		
200.0	200.0	200.0	200.0	0.3	0.3	-143.11	-24.0	-18.0	30.1	29.4	0.62	48.379		
300.0	300.0	300.0	300.0	0.5	0.5	-143.11	-24.0	-18.0	30.1	29.1	0.97	30.976 CC, ES		
400.0	400.0	399.2	399.2	0.7	0.7	-73.83	-24.4	-19.7	30.8	29.5	1.32	23.328		
500.0	499.8	498.4	498.2	0.9	0.9	-76.34	-25.4	-24.8	33.2	31.5	1.69	19.605		
600.0	599.5	597.5	596.9	1.1	1.1	-79.79	-27.0	-33.2	37.3	35.2	2.11	17.663		
700.0	698.7	696.4	695.1	1.3	1.3	-83.48	-29.3	-44.9	43.2	40.6	2.60	16.608		
800.0	797.5	795.2	792.7	1.6	1.6	-86.95	-32.3	-59.9	50.9	47.8	3.18	16.007		
900.0	895.9	894.8	890.9	2.0	1.9	-90.48	-35.5	-76.4	59.5	55.7	3.81	15.643		
1,000.0	994.3	994.3	989.0	2.3	2.3	-93.13	-38.8	-92.8	68.3	63.9	4.45	15.348		
1,100.0	1,092.7	1,093.9	1,087.2	2.6	2.6	-95.18	-42.0	-109.3	77.2	72.1	5.11	15.114		
1,200.0	1,191.1	1,193.5	1,185.3	3.0	2.9	-96.81	-45.3	-125.7	86.1	80.4	5.77	14.928		
1,300.0	1,289.6	1,293.0	1,283.5	3.3	3.3	-98.13	-48.5	-142.2	95.2	88.7	6.44	14.779		
1,400.0	1,388.0	1,392.6	1,381.6	3.7	3.6	-99.22	-51.8	-158.6	104.2	97.1	7.11	14.657		
1,500.0	1,486.4	1,492.2	1,479.8	4.0	3.9	-100.13	-55.0	-175.1	113.3	105.5	7.78	14.556		
1,600.0	1,584.8	1,591.8	1,577.9	4.4	4.3	-100.91	-58.3	-191.5	122.4	113.9	8.46	14.472		
1,700.0	1,683.2	1,691.3	1,676.1	4.8	4.6	-101.58	-61.5	-208.0	131.5	122.4	9.13	14.401		
1,800.0	1,781.7	1,790.9	1,774.2	5.1	4.9	-102.17	-64.8	-224.4	140.7	130.9	9.81	14.339		
1,900.0	1,880.1	1,890.5	1,872.4	5.5	5.3	-102.68	-68.0	-240.9	149.8	139.3	10.49	14.286		
2,000.0	1,978.5	1,990.0	1,970.5	5.8	5.6	-103.13	-71.2	-257.3	159.0	147.8	11.17	14.240		
2,100.0	2,076.9	2,089.6	2,068.7	6.2	6.0	-103.54	-74.5	-273.8	168.2	156.3	11.84	14.200		
2,200.0	2,175.3	2,189.2	2,166.8	6.5	6.3	-103.90	-77.7	-290.2	177.4	164.8	12.52	14.164		
2,300.0	2,273.8	2,288.8	2,265.0	6.9	6.6	-104.23	-81.0	-306.7	186.6	173.4	13.20	14.132		
2,400.0	2,372.2	2,388.3	2,363.1	7.2	7.0	-104.52	-84.2	-323.1	195.8	181.9	13.88	14.103		
2,500.0	2,470.6	2,487.9	2,461.3	7.6	7.3	-104.79	-87.5	-339.6	205.0	190.4	14.56	14.077		
2,600.0	2,569.0	2,587.5	2,559.4	8.0	7.7	-105.04	-90.7	-356.0	214.2	198.9	15.24	14.054		
2,700.0	2,667.4	2,687.0	2,657.6	8.3	8.0	-105.26	-94.0	-372.5	223.4	207.5	15.92	14.033		
2,800.0	2,765.9	2,786.6	2,755.7	8.7	8.4	-105.47	-97.2	-388.9	232.6	216.0	16.60	14.013		
2,900.0	2,864.3	2,886.2	2,853.9	9.0	8.7	-105.66	-100.5	-405.4	241.8	224.5	17.28	13.996		
3,000.0	2,962.7	2,985.8	2,952.0	9.4	9.0	-105.84	-103.7	-421.8	251.0	233.1	17.96	13.979		
3,100.0	3,061.1	3,085.3	3,050.2	9.7	9.4	-106.01	-107.0	-438.3	260.2	241.6	18.64	13.964		
3,200.0	3,159.5	3,184.9	3,148.3	10.1	9.7	-106.16	-110.2	-454.7	269.5	250.1	19.32	13.950		
3,300.0	3,258.0	3,284.5	3,246.5	10.5	10.1	-106.31	-113.4	-471.2	278.7	258.7	20.00	13.937		
3,400.0	3,356.4	3,384.0	3,344.6	10.8	10.4	-106.44	-116.7	-487.7	287.9	267.2	20.67	13.925		
3,500.0	3,454.8	3,483.6	3,442.8	11.2	10.8	-106.57	-119.9	-504.1	297.1	275.8	21.35	13.914		
3,600.0	3,553.2	3,583.2	3,540.9	11.5	11.1	-106.69	-123.2	-520.6	306.4	284.3	22.03	13.904		
3,700.0	3,651.6	3,682.8	3,639.1	11.9	11.4	-106.80	-126.4	-537.0	315.6	292.9	22.71	13.894		
3,800.0	3,750.1	3,782.3	3,737.2	12.2	11.8	-106.90	-129.7	-553.5	324.8	301.4	23.39	13.885		
3,900.0	3,848.5	3,881.9	3,835.4	12.6	12.1	-107.00	-132.9	-569.9	334.0	310.0	24.07	13.876		
4,000.0	3,946.9	3,981.5	3,933.5	13.0	12.5	-107.10	-136.2	-586.4	343.3	318.5	24.75	13.868		
4,100.0	4,045.3	4,081.0	4,031.7	13.3	12.8	-107.19	-139.4	-602.8	352.5	327.1	25.43	13.860		
4,200.0	4,143.7	4,180.6	4,129.8	13.7	13.2	-107.27	-142.7	-619.3	361.7	335.6	26.11	13.853		
4,300.0	4,242.2	4,280.2	4,228.0	14.0	13.5	-107.35	-145.9	-635.7	371.0	344.2	26.79	13.846		
4,400.0	4,340.6	4,379.8	4,326.1	14.4	13.8	-107.43	-149.1	-652.2	380.2	352.7	27.47	13.839		
4,500.0	4,439.0	4,479.3	4,424.3	14.8	14.2	-107.50	-152.4	-668.6	389.5	361.3	28.15	13.833		
4,600.0	4,537.4	4,578.9	4,522.4	15.1	14.5	-107.57	-155.6	-685.1	398.7	369.9	28.83	13.827		
4,700.0	4,635.8	4,678.5	4,620.6	15.5	14.9	-107.64	-158.9	-701.5	407.9	378.4	29.51	13.822		
4,800.0	4,734.3	4,778.0	4,718.7	15.8	15.2	-107.70	-162.1	-718.0	417.2	387.0	30.19	13.817		
4,900.0	4,832.7	4,877.6	4,816.9	16.2	15.6	-107.76	-165.4	-734.4	426.4	395.5	30.87	13.811		
5,000.0	4,931.1	4,977.2	4,915.0	16.5	15.9	-107.82	-168.6	-750.9	435.6	404.1	31.55	13.807		
5,100.0	5,029.5	5,076.8	5,013.1	16.9	16.3	-107.88	-171.9	-767.3	444.9	412.6	32.23	13.802		

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 6-37D
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 6-37D	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
Sec 6 T6S R96W (F06 696) - Chevron 6-35D - DD - Plan #2												Offset Well Error:	0.0 ft
Survey Program: O-MWD													
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
5,200.0	5,127.9	5,176.3	5,111.3	17.3	16.6	-107.93	-175.1	-783.8	454.1	421.2	32.91	13.798	
5,300.0	5,226.4	5,275.9	5,209.4	17.6	16.9	-107.98	-178.4	-800.2	463.4	429.8	33.59	13.793	
5,400.0	5,324.8	5,375.5	5,307.6	18.0	17.3	-108.03	-181.6	-816.7	472.6	438.3	34.27	13.789	
5,500.0	5,423.2	5,475.0	5,405.7	18.3	17.6	-108.08	-184.9	-833.1	481.8	446.9	34.95	13.785	
5,600.0	5,521.6	5,574.6	5,503.9	18.7	18.0	-108.12	-188.1	-849.6	491.1	455.4	35.63	13.782	
5,700.0	5,620.0	5,674.2	5,602.0	19.1	18.3	-108.17	-191.3	-866.0	500.3	464.0	36.31	13.778	
5,800.0	5,718.5	5,773.8	5,700.2	19.4	18.7	-108.21	-194.6	-882.5	509.6	472.6	36.99	13.775	
5,900.0	5,816.9	5,873.3	5,798.3	19.8	19.0	-108.25	-197.8	-898.9	518.8	481.1	37.67	13.771	
6,000.0	5,915.3	5,972.9	5,896.5	20.1	19.3	-108.29	-201.1	-915.4	528.0	489.7	38.35	13.768	
6,100.0	6,013.7	6,072.5	5,994.6	20.5	19.7	-108.33	-204.3	-931.8	537.3	498.3	39.03	13.765	
6,200.0	6,112.1	6,172.0	6,092.8	20.8	20.0	-108.37	-207.6	-948.3	546.5	506.8	39.71	13.762	
6,300.0	6,210.6	6,271.6	6,190.9	21.2	20.4	-108.40	-210.8	-964.7	555.8	515.4	40.39	13.759	
6,400.0	6,309.0	6,371.2	6,289.1	21.6	20.7	-108.44	-214.1	-981.2	565.0	523.9	41.07	13.756	
6,500.0	6,407.4	6,470.8	6,387.2	21.9	21.1	-108.47	-217.3	-997.6	574.3	532.5	41.75	13.754	
6,600.0	6,505.8	6,570.3	6,485.4	22.3	21.4	-108.50	-220.6	-1,014.1	583.5	541.1	42.43	13.751	
6,700.0	6,604.2	6,669.9	6,583.5	22.6	21.7	-108.53	-223.8	-1,030.6	592.7	549.6	43.11	13.749	
6,800.0	6,702.7	6,769.5	6,681.7	23.0	22.1	-108.56	-227.0	-1,047.0	602.0	558.2	43.79	13.746	
6,900.0	6,801.1	6,870.1	6,780.9	23.4	22.4	-108.62	-230.3	-1,063.5	611.2	566.7	44.47	13.744	
7,000.0	6,899.9	6,974.4	6,884.2	23.7	22.7	-108.65	-233.2	-1,078.1	619.2	574.1	45.05	13.743	
7,100.0	6,999.1	7,078.9	6,988.0	23.9	23.0	-109.07	-235.3	-1,088.9	625.3	579.8	45.53	13.734	
7,200.0	7,098.8	7,183.4	7,092.3	24.1	23.1	-109.27	-236.7	-1,096.0	629.5	583.6	45.90	13.716	
7,300.0	7,198.6	7,288.0	7,196.8	24.2	23.3	-109.46	-237.4	-1,099.4	631.9	585.7	46.16	13.689	
7,400.0	7,298.6	7,389.0	7,297.8	24.3	23.4	-60.54	-237.5	-1,099.8	632.5	586.1	46.35	13.645	
7,500.0	7,398.6	7,487.6	7,396.4	24.4	23.5	-60.52	-237.7	-1,100.2	632.6	586.0	46.56	13.587	
7,600.0	7,498.6	7,586.2	7,495.1	24.5	23.6	-60.50	-238.2	-1,100.9	632.7	585.9	46.78	13.526	
7,700.0	7,598.6	7,684.9	7,593.7	24.6	23.7	-60.48	-238.8	-1,102.1	632.9	585.8	47.01	13.462	
7,800.0	7,698.6	7,784.8	7,693.6	24.7	23.8	-60.48	-239.6	-1,103.4	632.9	585.7	47.25	13.395	
7,900.0	7,798.6	7,884.8	7,793.6	24.8	23.9	-60.48	-240.4	-1,104.8	632.9	585.4	47.49	13.328	
8,000.0	7,898.6	7,984.8	7,893.6	25.0	24.1	-60.48	-241.2	-1,106.1	633.0	585.2	47.73	13.262	
8,100.0	7,998.6	8,084.8	7,993.6	25.1	24.2	-60.48	-241.9	-1,107.5	633.0	585.0	47.97	13.195	
8,200.0	8,098.6	8,184.8	8,093.6	25.2	24.3	-60.48	-242.7	-1,108.8	633.0	584.8	48.21	13.129	
8,300.0	8,198.5	8,284.8	8,193.6	25.3	24.4	-60.48	-243.5	-1,110.1	633.0	584.6	48.46	13.063	
8,400.0	8,298.5	8,384.8	8,293.6	25.4	24.5	-60.48	-244.3	-1,111.5	633.1	584.3	48.70	12.998	
8,500.0	8,398.5	8,484.8	8,393.5	25.5	24.7	-60.48	-245.1	-1,112.8	633.1	584.1	48.95	12.933	
8,600.0	8,498.5	8,584.8	8,493.5	25.6	24.8	-60.48	-245.8	-1,114.2	633.1	583.9	49.20	12.868	
8,700.0	8,598.5	8,684.8	8,593.5	25.8	24.9	-60.48	-246.6	-1,115.5	633.1	583.7	49.45	12.804	
8,800.0	8,698.5	8,784.8	8,693.5	25.9	25.0	-60.48	-247.4	-1,116.9	633.1	583.4	49.70	12.739	
8,900.0	8,798.5	8,884.8	8,793.5	26.0	25.2	-60.48	-248.2	-1,118.2	633.2	583.2	49.95	12.676	
9,000.0	8,898.5	8,984.8	8,893.5	26.1	25.3	-60.48	-248.9	-1,119.6	633.2	583.0	50.21	12.612	
9,100.0	8,998.5	9,084.8	8,993.5	26.2	25.4	-60.48	-249.7	-1,120.9	633.2	582.8	50.46	12.549	
9,200.0	9,098.4	9,184.8	9,093.5	26.4	25.6	-60.48	-250.5	-1,122.3	633.2	582.5	50.72	12.486	
9,300.0	9,198.4	9,284.8	9,193.5	26.5	25.7	-60.48	-251.3	-1,123.6	633.3	582.3	50.97	12.424	
9,400.0	9,298.4	9,384.8	9,293.4	26.6	25.8	-60.48	-252.1	-1,125.0	633.3	582.1	51.23	12.362	
9,500.0	9,398.4	9,484.8	9,393.4	26.7	25.9	-60.48	-252.8	-1,126.3	633.3	581.8	51.49	12.300	
9,600.0	9,498.4	9,584.8	9,493.4	26.8	26.1	-60.48	-253.6	-1,127.7	633.3	581.6	51.75	12.238	
9,700.0	9,598.4	9,684.8	9,593.4	27.0	26.2	-60.48	-254.4	-1,129.0	633.4	581.4	52.01	12.177	
9,800.0	9,698.4	9,784.8	9,693.4	27.1	26.3	-60.48	-255.2	-1,130.3	633.4	581.1	52.27	12.117	
9,900.0	9,798.4	9,884.8	9,793.4	27.2	26.5	-60.48	-256.0	-1,131.7	633.4	580.9	52.54	12.056	
10,000.0	9,898.3	9,984.8	9,893.4	27.3	26.6	-60.48	-256.7	-1,133.0	633.4	580.6	52.80	11.997	
10,057.6	9,956.0	10,042.5	9,951.0	27.4	26.7	-60.48	-257.2	-1,133.8	633.5	580.5	52.96	11.962	
10,100.0	9,998.3	10,080.5	9,989.0	27.5	26.7	-60.48	-257.5	-1,134.3	633.5	580.4	53.06	11.939 SF	
10,145.7	10,044.0	10,080.5	9,989.0	27.5	26.7	-60.48	-257.5	-1,134.3	635.5	582.3	53.12	11.962	

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 6-37D
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 6-37D	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 6-37D
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 6-37D	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		
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 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	-137.87	-11.9	-10.8	16.0	15.1	0.97	16.525		
400.0	400.0	399.2	399.1	0.7	0.7	-59.96	-11.5	-15.9	18.7	17.4	1.33	14.060		
500.0	499.8	498.6	498.1	0.9	0.9	-55.92	-10.8	-24.5	22.4	20.6	1.71	13.058		
600.0	599.5	597.9	596.6	1.1	1.2	-54.42	-9.9	-36.5	26.7	24.6	2.13	12.566		
700.0	698.7	697.3	694.8	1.3	1.5	-54.81	-8.8	-51.7	31.6	29.0	2.59	12.185		
800.0	797.5	797.2	793.4	1.6	1.8	-59.10	-7.6	-67.6	35.0	31.8	3.15	11.116		
900.0	895.9	897.1	892.0	2.0	2.1	-65.44	-6.3	-83.5	37.7	33.9	3.79	9.941		
1,000.0	894.3	896.9	890.6	2.3	2.4	-70.91	-5.1	-99.4	40.8	36.3	4.47	9.117		
1,100.0	1,092.7	1,096.8	1,089.2	2.6	2.8	-75.57	-3.9	-115.3	44.2	39.0	5.17	8.541		
1,200.0	1,191.1	1,196.7	1,187.8	3.0	3.1	-79.55	-2.7	-131.2	47.8	41.9	5.88	8.134		
1,300.0	1,289.6	1,296.6	1,286.4	3.3	3.4	-82.95	-1.5	-147.1	51.7	45.1	6.59	7.843		
1,400.0	1,388.0	1,396.5	1,385.0	3.7	3.7	-85.86	-0.3	-163.0	55.7	48.4	7.29	7.632		
1,500.0	1,486.4	1,496.4	1,483.6	4.0	4.1	-88.39	0.9	-178.9	59.8	51.8	8.00	7.477		
1,600.0	1,584.8	1,596.2	1,582.2	4.4	4.4	-90.58	2.1	-194.8	64.0	55.3	8.70	7.363		
1,700.0	1,683.2	1,696.1	1,680.8	4.8	4.7	-92.50	3.3	-210.7	68.4	59.0	9.39	7.277		
1,800.0	1,781.7	1,796.0	1,779.4	5.1	5.0	-94.18	4.6	-226.6	72.7	62.6	10.08	7.213		
1,900.0	1,880.1	1,895.9	1,878.1	5.5	5.4	-95.68	5.8	-242.5	77.2	66.4	10.77	7.165		
2,000.0	1,978.5	1,995.8	1,976.7	5.8	5.7	-97.01	7.0	-258.4	81.7	70.2	11.45	7.129		
2,100.0	2,076.9	2,095.6	2,075.3	6.2	6.0	-98.21	8.2	-274.3	86.2	74.0	12.13	7.102		
2,200.0	2,175.3	2,195.5	2,173.9	6.5	6.4	-99.28	9.4	-290.2	90.7	77.9	12.81	7.082		
2,300.0	2,273.8	2,295.4	2,272.5	6.9	6.7	-100.25	10.6	-306.1	95.3	81.8	13.49	7.067		
2,400.0	2,372.2	2,395.3	2,371.1	7.2	7.0	-101.13	11.8	-322.0	99.9	85.8	14.16	7.057		
2,500.0	2,470.6	2,495.2	2,469.7	7.6	7.4	-101.94	13.0	-338.0	104.6	89.7	14.83	7.050		
2,600.0	2,569.0	2,595.1	2,568.3	8.0	7.7	-102.67	14.3	-353.9	109.2	93.7	15.50	7.045		
2,700.0	2,667.4	2,694.9	2,666.9	8.3	8.0	-103.35	15.5	-369.8	113.9	97.7	16.17	7.043		
2,800.0	2,765.9	2,794.8	2,765.5	8.7	8.3	-103.97	16.7	-385.7	118.6	101.7	16.84	7.042		
2,900.0	2,864.3	2,894.7	2,864.1	9.0	8.7	-104.54	17.9	-401.6	123.3	105.8	17.50	7.043		
3,000.0	2,962.7	2,994.6	2,962.7	9.4	9.0	-105.07	19.1	-417.5	128.0	109.8	18.17	7.044		
3,100.0	3,061.1	3,094.5	3,061.3	9.7	9.3	-105.57	20.3	-433.4	132.7	113.8	18.83	7.046		
3,200.0	3,159.5	3,194.4	3,159.9	10.1	9.7	-106.03	21.5	-449.3	137.4	117.9	19.49	7.049		
3,300.0	3,258.0	3,294.2	3,258.5	10.5	10.0	-106.46	22.7	-465.2	142.1	122.0	20.15	7.053		
3,400.0	3,356.4	3,394.1	3,357.1	10.8	10.3	-106.86	23.9	-481.1	146.9	126.1	20.81	7.057		
3,500.0	3,454.8	3,494.0	3,455.7	11.2	10.7	-107.24	25.2	-497.0	151.6	130.2	21.47	7.061		
3,600.0	3,553.2	3,593.9	3,554.3	11.5	11.0	-107.59	26.4	-512.9	156.4	134.2	22.13	7.065		
3,700.0	3,651.6	3,693.8	3,652.9	11.9	11.3	-107.93	27.6	-528.8	161.1	138.3	22.79	7.070		
3,800.0	3,750.1	3,793.6	3,751.5	12.2	11.7	-108.24	28.8	-544.7	165.9	142.5	23.45	7.074		
3,900.0	3,848.5	3,893.5	3,850.1	12.6	12.0	-108.54	30.0	-560.6	170.7	146.6	24.11	7.079		
4,000.0	3,946.9	3,993.4	3,948.7	13.0	12.3	-108.82	31.2	-576.5	175.4	150.7	24.77	7.084		
4,100.0	4,045.3	4,093.3	4,047.3	13.3	12.7	-109.08	32.4	-592.4	180.2	154.8	25.42	7.089		
4,200.0	4,143.7	4,193.2	4,145.9	13.7	13.0	-109.34	33.6	-608.3	185.0	158.9	26.08	7.094		
4,300.0	4,242.2	4,293.1	4,244.5	14.0	13.3	-109.57	34.8	-624.2	189.8	163.1	26.74	7.098		
4,400.0	4,340.6	4,392.9	4,343.1	14.4	13.6	-109.80	36.1	-640.1	194.6	167.2	27.39	7.103		
4,500.0	4,439.0	4,492.8	4,441.7	14.8	14.0	-110.02	37.3	-656.0	199.4	171.3	28.05	7.108		
4,600.0	4,537.4	4,592.7	4,540.3	15.1	14.3	-110.22	38.5	-671.9	204.2	175.5	28.70	7.113		
4,700.0	4,635.8	4,692.6	4,638.9	15.5	14.6	-110.42	39.7	-687.8	209.0	179.6	29.36	7.117		
4,800.0	4,734.3	4,792.5	4,737.5	15.8	15.0	-110.61	40.9	-703.7	213.8	183.7	30.02	7.122		
4,900.0	4,832.7	4,892.4	4,836.1	16.2	15.3	-110.79	42.1	-719.6	218.6	187.9	30.67	7.126		
5,000.0	4,931.1	4,992.2	4,934.7	16.5	15.6	-110.96	43.3	-735.5	223.4	192.0	31.32	7.131		
5,100.0	5,029.5	5,092.1	5,033.3	16.9	16.0	-111.13	44.5	-751.4	228.2	196.2	31.98	7.135		

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 6-37D
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 6-37D	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)			
5,200.0	5,127.9	5,192.0	5,131.9	17.3	16.3	-111.28	45.7	-767.3	233.0	200.3	32.63	7.139	
5,300.0	5,226.4	5,291.9	5,230.5	17.6	16.6	-111.44	47.0	-783.2	237.8	204.5	33.29	7.143	
5,400.0	5,324.8	5,391.8	5,329.1	18.0	17.0	-111.58	48.2	-799.1	242.6	208.7	33.94	7.147	
5,500.0	5,423.2	5,491.6	5,427.7	18.3	17.3	-111.72	49.4	-815.0	247.4	212.8	34.60	7.151	
5,600.0	5,521.6	5,591.5	5,526.3	18.7	17.6	-111.86	50.6	-830.9	252.2	217.0	35.25	7.155	
5,700.0	5,620.0	5,691.4	5,624.9	19.1	18.0	-111.98	51.8	-846.8	257.0	221.1	35.90	7.159	
5,800.0	5,718.5	5,791.3	5,723.5	19.4	18.3	-112.11	53.0	-862.7	261.8	225.3	36.56	7.163	
5,900.0	5,816.9	5,891.2	5,822.1	19.8	18.6	-112.23	54.2	-878.6	266.7	229.5	37.21	7.167	
6,000.0	5,915.3	5,991.1	5,920.7	20.1	18.9	-112.35	55.4	-894.5	271.5	233.6	37.86	7.170	
6,100.0	6,013.7	6,090.9	6,019.3	20.5	19.3	-112.46	56.7	-910.4	276.3	237.8	38.52	7.174	
6,200.0	6,112.1	6,190.8	6,117.9	20.8	19.6	-112.57	57.9	-926.3	281.1	242.0	39.17	7.177	
6,300.0	6,210.6	6,290.7	6,216.5	21.2	19.9	-112.67	59.1	-942.2	285.9	246.1	39.82	7.181	
6,400.0	6,309.0	6,390.6	6,315.1	21.6	20.3	-112.77	60.3	-958.2	290.8	250.3	40.47	7.184	
6,500.0	6,407.4	6,490.5	6,413.7	21.9	20.6	-112.87	61.5	-974.1	295.6	254.5	41.13	7.187	
6,600.0	6,505.8	6,590.4	6,512.3	22.3	20.9	-112.96	62.7	-990.0	300.4	258.6	41.78	7.190	
6,700.0	6,604.2	6,690.2	6,610.9	22.6	21.3	-113.06	63.9	-1,005.9	305.2	262.8	42.43	7.194	
6,800.0	6,702.7	6,790.1	6,709.5	23.0	21.6	-113.14	65.1	-1,021.8	310.1	267.0	43.08	7.197	
6,900.0	6,801.1	6,890.0	6,808.1	23.4	21.9	-113.24	66.3	-1,037.7	314.9	271.1	43.74	7.199	
7,000.0	6,899.9	6,988.5	6,905.5	23.7	22.2	-113.31	67.4	-1,051.8	319.0	274.7	44.29	7.203	
7,100.0	6,999.1	7,086.9	7,003.3	23.9	22.4	-113.40	68.2	-1,062.6	322.3	277.5	44.75	7.202	
7,200.0	7,098.8	7,185.3	7,101.5	24.1	22.6	-113.50	68.8	-1,070.0	324.6	279.5	45.10	7.199	
7,300.0	7,198.6	7,283.7	7,199.8	24.2	22.7	-113.63	69.1	-1,074.0	326.1	280.7	45.35	7.191	
7,400.0	7,298.6	7,382.4	7,298.4	24.3	22.8	-64.70	69.2	-1,074.9	326.6	281.1	45.53	7.174	
7,500.0	7,398.6	7,481.7	7,397.8	24.4	22.9	-64.68	69.0	-1,075.2	326.7	280.9	45.74	7.142	
7,600.0	7,498.6	7,581.1	7,497.2	24.5	23.1	-64.66	68.6	-1,075.9	326.7	280.7	45.96	7.108	
7,700.0	7,598.6	7,680.5	7,596.6	24.6	23.2	-64.65	68.0	-1,076.9	326.8	280.6	46.20	7.073	
7,800.0	7,698.6	7,780.3	7,696.4	24.7	23.3	-64.64	67.2	-1,078.2	326.8	280.4	46.44	7.037	
7,900.0	7,798.6	7,880.3	7,796.4	24.8	23.4	-64.64	66.5	-1,079.6	326.8	280.1	46.69	7.000	
8,000.0	7,898.6	7,980.3	7,896.3	25.0	23.5	-64.64	65.7	-1,080.9	326.8	279.9	46.93	6.964	
8,100.0	7,998.6	8,080.3	7,996.3	25.1	23.7	-64.64	64.9	-1,082.3	326.9	279.7	47.18	6.928	
8,200.0	8,098.6	8,180.3	8,096.3	25.2	23.8	-64.64	64.1	-1,083.6	326.9	279.5	47.43	6.893	
8,300.0	8,198.5	8,280.3	8,196.3	25.3	23.9	-64.64	63.4	-1,085.0	326.9	279.2	47.67	6.857	
8,400.0	8,298.5	8,380.3	8,296.3	25.4	24.0	-64.64	62.6	-1,086.3	326.9	279.0	47.92	6.822	
8,500.0	8,398.5	8,480.3	8,396.3	25.5	24.1	-64.64	61.8	-1,087.7	327.0	278.8	48.18	6.787	
8,600.0	8,498.5	8,580.3	8,496.3	25.6	24.3	-64.64	61.0	-1,089.0	327.0	278.5	48.43	6.752	
8,700.0	8,598.5	8,680.3	8,596.3	25.8	24.4	-64.64	60.3	-1,090.3	327.0	278.3	48.68	6.717	
8,800.0	8,698.5	8,780.3	8,696.3	25.9	24.5	-64.64	59.5	-1,091.7	327.0	278.1	48.94	6.682	
8,900.0	8,798.5	8,880.3	8,796.2	26.0	24.6	-64.65	58.7	-1,093.0	327.0	277.8	49.20	6.648	
9,000.0	8,898.5	8,980.3	8,896.2	26.1	24.8	-64.65	57.9	-1,094.4	327.1	277.6	49.45	6.614	
9,100.0	8,998.5	9,080.3	8,996.2	26.2	24.9	-64.65	57.1	-1,095.7	327.1	277.4	49.71	6.580	
9,200.0	9,098.4	9,180.3	9,096.2	26.4	25.0	-64.65	56.4	-1,097.1	327.1	277.1	49.97	6.546	
9,300.0	9,198.4	9,280.3	9,196.2	26.5	25.2	-64.65	55.6	-1,098.4	327.1	276.9	50.23	6.512	
9,400.0	9,298.4	9,380.3	9,296.2	26.6	25.3	-64.65	54.8	-1,099.8	327.1	276.7	50.50	6.479	
9,500.0	9,398.4	9,480.3	9,396.2	26.7	25.4	-64.65	54.0	-1,101.1	327.2	276.4	50.76	6.446	
9,600.0	9,498.4	9,580.3	9,496.2	26.8	25.5	-64.65	53.3	-1,102.5	327.2	276.2	51.02	6.413	
9,700.0	9,598.4	9,680.3	9,596.1	27.0	25.7	-64.65	52.5	-1,103.8	327.2	275.9	51.29	6.380	
9,800.0	9,698.4	9,780.3	9,696.1	27.1	25.8	-64.65	51.7	-1,105.2	327.2	275.7	51.56	6.347	
9,900.0	9,798.4	9,880.3	9,796.1	27.2	25.9	-64.65	50.9	-1,106.5	327.3	275.4	51.82	6.315	
10,000.0	9,898.3	9,980.3	9,896.1	27.3	26.1	-64.65	50.2	-1,107.8	327.3	275.2	52.09	6.283	
10,100.0	9,998.3	10,080.3	9,996.1	27.5	26.2	-64.65	49.4	-1,109.2	327.3	274.9	52.36	6.251	
10,109.5	10,007.8	10,089.8	10,005.6	27.5	26.2	-64.65	49.3	-1,109.3	327.3	274.9	52.39	6.248 SF	
10,145.7	10,044.0	10,103.2	10,019.0	27.5	26.2	-64.65	49.2	-1,109.5	328.1	275.6	52.45	6.255	

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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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 6-37D	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 6-37D
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 6-37D	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: O-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	36.02	12.0	8.7	14.9						
100.0	100.0	100.0	100.0	0.1	0.1	36.02	12.0	8.7	14.9	14.6	0.27	54.586			
200.0	200.0	200.0	200.0	0.3	0.3	36.02	12.0	8.7	14.9	14.2	0.62	23.920			
233.3	233.3	233.3	233.3	0.4	0.4	35.28	12.1	8.6	14.9	14.1	0.74	20.142 CC			
300.0	300.0	300.0	299.9	0.5	0.5	29.32	13.0	7.3	14.9	14.0	0.97	15.392 ES			
400.0	400.0	399.8	399.6	0.7	0.7	87.10	16.1	3.1	16.2	14.8	1.34	12.031			
500.0	499.8	499.5	498.9	0.9	0.9	77.85	21.1	-4.0	18.9	17.2	1.75	10.833			
600.0	599.5	599.0	597.7	1.1	1.2	72.14	28.1	-13.9	22.9	20.7	2.19	10.425			
700.0	698.7	698.4	695.8	1.3	1.5	69.10	37.1	-26.5	27.8	25.1	2.70	10.287			
800.0	797.5	798.0	793.9	1.6	1.8	68.99	47.6	-41.2	33.1	29.8	3.29	10.056			
900.0	895.9	897.9	892.1	2.0	2.2	71.75	58.2	-56.1	37.7	33.8	3.93	9.584			
1,000.0	994.3	997.8	990.3	2.3	2.5	73.92	68.8	-71.0	42.4	37.8	4.60	9.212			
1,100.0	1,092.7	1,097.7	1,088.5	2.6	2.9	75.66	79.4	-85.9	47.1	41.9	5.28	8.921			
1,200.0	1,191.1	1,197.6	1,186.6	3.0	3.3	77.08	90.0	-100.8	51.9	45.9	5.98	8.689			
1,300.0	1,289.6	1,297.4	1,284.8	3.3	3.6	78.26	100.6	-115.7	56.7	50.1	6.67	8.502			
1,400.0	1,388.0	1,397.3	1,383.0	3.7	4.0	79.26	111.2	-130.6	61.6	54.2	7.37	8.348			
1,500.0	1,486.4	1,497.2	1,481.2	4.0	4.3	80.11	121.8	-145.4	66.4	58.3	8.08	8.220			
1,600.0	1,584.8	1,597.1	1,579.4	4.4	4.7	80.84	132.4	-160.3	71.3	62.5	8.79	8.112			
1,700.0	1,683.2	1,696.9	1,677.6	4.8	5.1	81.48	143.0	-175.2	76.1	66.6	9.49	8.019			
1,800.0	1,781.7	1,796.8	1,775.8	5.1	5.4	82.04	153.6	-190.1	81.0	70.8	10.20	7.940			
1,900.0	1,880.1	1,896.7	1,874.0	5.5	5.8	82.54	164.2	-205.0	85.9	75.0	10.91	7.870			
2,000.0	1,978.5	1,996.6	1,972.2	5.8	6.2	82.99	174.8	-219.9	90.8	79.2	11.63	7.809			
2,100.0	2,076.9	2,096.5	2,070.4	6.2	6.5	83.39	185.4	-234.8	95.7	83.3	12.34	7.755			
2,200.0	2,175.3	2,196.3	2,168.6	6.5	6.9	83.75	196.0	-249.7	100.6	87.5	13.05	7.707			
2,300.0	2,273.8	2,296.2	2,266.8	6.9	7.3	84.08	206.6	-264.5	105.5	91.7	13.76	7.664			
2,400.0	2,372.2	2,396.1	2,364.9	7.2	7.6	84.38	217.2	-279.4	110.4	95.9	14.48	7.626			
2,500.0	2,470.6	2,496.0	2,463.1	7.6	8.0	84.65	227.8	-294.3	115.3	100.1	15.19	7.590			
2,600.0	2,569.0	2,595.8	2,561.3	8.0	8.3	84.90	238.4	-309.2	120.2	104.3	15.90	7.559			
2,700.0	2,667.4	2,695.7	2,659.5	8.3	8.7	85.13	249.0	-324.1	125.1	108.5	16.62	7.529			
2,800.0	2,765.9	2,795.6	2,757.7	8.7	9.1	85.35	259.6	-339.0	130.0	112.7	17.33	7.503			
2,900.0	2,864.3	2,895.5	2,855.9	9.0	9.4	85.54	270.2	-353.9	135.0	116.9	18.05	7.478			
3,000.0	2,962.7	2,995.4	2,954.1	9.4	9.8	85.73	280.8	-368.8	139.9	121.1	18.76	7.456			
3,100.0	3,061.1	3,095.2	3,052.3	9.7	10.2	85.90	291.4	-383.6	144.8	125.3	19.48	7.435			
3,200.0	3,159.5	3,195.1	3,150.5	10.1	10.5	86.06	302.0	-398.5	149.7	129.5	20.19	7.415			
3,300.0	3,258.0	3,295.0	3,248.7	10.5	10.9	86.21	312.6	-413.4	154.6	133.7	20.91	7.397			
3,400.0	3,356.4	3,394.9	3,346.9	10.8	11.3	86.35	323.2	-428.3	159.6	137.9	21.62	7.380			
3,500.0	3,454.8	3,494.7	3,445.0	11.2	11.6	86.48	333.8	-443.2	164.5	142.2	22.34	7.365			
3,600.0	3,553.2	3,594.6	3,543.2	11.5	12.0	86.61	344.4	-458.1	169.4	146.4	23.05	7.350			
3,700.0	3,651.6	3,694.5	3,641.4	11.9	12.4	86.72	355.0	-473.0	174.3	150.6	23.77	7.336			
3,800.0	3,750.1	3,794.4	3,739.6	12.2	12.7	86.84	365.6	-487.9	179.3	154.8	24.48	7.323			
3,900.0	3,848.5	3,894.3	3,837.8	12.6	13.1	86.94	376.2	-502.7	184.2	159.0	25.20	7.311			
4,000.0	3,946.9	3,994.1	3,936.0	13.0	13.5	87.04	386.8	-517.6	189.1	163.2	25.91	7.299			
4,100.0	4,045.3	4,094.0	4,034.2	13.3	13.8	87.14	397.4	-532.5	194.1	167.4	26.63	7.288			
4,200.0	4,143.7	4,193.9	4,132.4	13.7	14.2	87.23	408.0	-547.4	199.0	171.6	27.34	7.278			
4,300.0	4,242.2	4,293.8	4,230.6	14.0	14.6	87.31	418.6	-562.3	203.9	175.9	28.06	7.268			
4,400.0	4,340.6	4,393.7	4,328.8	14.4	14.9	87.39	429.2	-577.2	208.8	180.1	28.77	7.258			
4,500.0	4,439.0	4,493.5	4,427.0	14.8	15.3	87.47	439.8	-592.1	213.8	184.3	29.49	7.250			
4,600.0	4,537.4	4,593.4	4,525.2	15.1	15.7	87.55	450.4	-607.0	218.7	188.5	30.20	7.241			
4,700.0	4,635.8	4,693.3	4,623.3	15.5	16.0	87.62	461.0	-621.9	223.6	192.7	30.92	7.233			
4,800.0	4,734.3	4,793.2	4,721.5	15.8	16.4	87.68	471.6	-636.7	228.6	196.9	31.63	7.225			
4,900.0	4,832.7	4,893.0	4,819.7	16.2	16.8	87.75	482.2	-651.6	233.5	201.1	32.35	7.218			
5,000.0	4,931.1	4,992.9	4,917.9	16.5	17.1	87.81	492.8	-666.5	238.4	205.4	33.06	7.211			

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

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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	5,029.5	5,092.8	5,016.1	16.9	17.5	87.87	503.4	-681.4	243.4	209.6	33.78	7.204		
5,200.0	5,127.9	5,192.7	5,114.3	17.3	17.9	87.93	514.0	-696.3	248.3	213.8	34.50	7.198		
5,300.0	5,226.4	5,292.6	5,212.5	17.6	18.2	87.98	524.6	-711.2	253.2	218.0	35.21	7.192		
5,400.0	5,324.8	5,392.4	5,310.7	18.0	18.6	88.04	535.2	-726.1	258.2	222.2	35.93	7.186		
5,500.0	5,423.2	5,492.3	5,408.9	18.3	19.0	88.09	545.8	-741.0	263.1	226.4	36.64	7.180		
5,600.0	5,521.6	5,592.2	5,507.1	18.7	19.3	88.14	556.4	-755.8	268.0	230.7	37.36	7.175		
5,700.0	5,620.0	5,692.1	5,605.3	19.1	19.7	88.19	567.0	-770.7	273.0	234.9	38.07	7.169		
5,800.0	5,718.5	5,791.9	5,703.5	19.4	20.1	88.23	577.6	-785.6	277.9	239.1	38.79	7.164		
5,900.0	5,816.9	5,891.8	5,801.6	19.8	20.4	88.28	588.2	-800.5	282.8	243.3	39.50	7.159		
6,000.0	5,915.3	5,991.7	5,899.8	20.1	20.8	88.32	598.8	-815.4	287.8	247.5	40.22	7.155		
6,100.0	6,013.7	6,091.6	5,998.0	20.5	21.2	88.36	609.4	-830.3	292.7	251.8	40.93	7.150		
6,200.0	6,112.1	6,191.5	6,096.2	20.8	21.5	88.40	620.0	-845.2	297.6	256.0	41.65	7.146		
6,300.0	6,210.6	6,291.3	6,194.4	21.2	21.9	88.44	630.6	-860.1	302.6	260.2	42.37	7.142		
6,400.0	6,309.0	6,391.2	6,292.6	21.6	22.3	88.48	641.2	-874.9	307.5	264.4	43.08	7.138		
6,500.0	6,407.4	6,491.1	6,390.8	21.9	22.6	88.51	651.8	-889.8	312.4	268.6	43.80	7.134		
6,600.0	6,505.8	6,591.0	6,489.0	22.3	23.0	88.55	662.4	-904.7	317.4	272.8	44.51	7.130		
6,700.0	6,604.2	6,690.8	6,587.2	22.6	23.4	88.58	673.0	-919.6	322.3	277.1	45.23	7.126		
6,800.0	6,702.7	6,790.7	6,685.4	23.0	23.7	88.61	683.6	-934.5	327.2	281.3	45.94	7.122		
6,900.0	6,801.1	6,890.7	6,783.7	23.4	24.1	88.65	694.3	-949.4	332.2	285.5	46.66	7.119		
7,000.0	6,899.9	6,994.1	6,885.7	23.7	24.4	88.71	704.1	-963.2	336.6	289.3	47.27	7.120		
7,100.0	6,999.1	7,097.6	6,988.3	23.9	24.7	88.73	711.8	-974.0	340.1	292.3	47.78	7.118		
7,200.0	7,098.8	7,201.1	7,091.4	24.1	24.9	88.73	717.3	-981.8	342.6	294.4	48.17	7.111		
7,300.0	7,198.6	7,304.7	7,194.8	24.2	25.0	88.71	720.7	-986.5	344.1	295.6	48.46	7.100		
7,400.0	7,298.6	7,408.4	7,298.4	24.3	25.1	137.71	721.9	-988.2	344.6	296.0	48.65	7.084		
7,500.0	7,398.6	7,509.6	7,399.7	24.4	25.2	137.71	721.8	-988.4	344.7	295.8	48.84	7.056		
7,600.0	7,498.6	7,610.8	7,500.8	24.5	25.3	137.72	721.5	-988.9	344.7	295.6	49.05	7.027		
7,700.0	7,598.6	7,711.9	7,602.0	24.6	25.4	137.72	720.9	-989.9	344.7	295.4	49.26	6.997		
7,800.0	7,698.6	7,812.6	7,702.6	24.7	25.5	137.73	720.2	-991.2	344.7	295.2	49.48	6.966		
7,900.0	7,798.6	7,912.6	7,802.6	24.8	25.6	137.73	719.4	-992.5	344.7	295.0	49.71	6.934		
8,000.0	7,898.6	8,012.6	7,902.6	25.0	25.7	137.73	718.6	-993.9	344.6	294.7	49.93	6.903		
8,100.0	7,998.6	8,112.6	8,002.6	25.1	25.8	137.73	717.9	-995.2	344.6	294.5	50.16	6.871		
8,200.0	8,098.6	8,212.6	8,102.6	25.2	26.0	137.73	717.1	-996.6	344.6	294.2	50.38	6.840		
8,300.0	8,198.5	8,312.6	8,202.6	25.3	26.1	137.73	716.3	-997.9	344.6	294.0	50.61	6.809		
8,400.0	8,298.5	8,412.6	8,302.5	25.4	26.2	137.73	715.5	-999.3	344.6	293.7	50.84	6.777		
8,500.0	8,398.5	8,512.6	8,402.5	25.5	26.3	137.73	714.7	-1,000.6	344.5	293.5	51.07	6.746		
8,600.0	8,498.5	8,612.6	8,502.5	25.6	26.4	137.73	714.0	-1,002.0	344.5	293.2	51.30	6.715		
8,700.0	8,598.5	8,712.6	8,602.5	25.8	26.5	137.74	713.2	-1,003.3	344.5	293.0	51.54	6.685		
8,800.0	8,698.5	8,812.6	8,702.5	25.9	26.6	137.74	712.4	-1,004.7	344.5	292.7	51.77	6.654		
8,900.0	8,798.5	8,912.6	8,802.5	26.0	26.7	137.74	711.6	-1,006.0	344.5	292.5	52.01	6.623		
9,000.0	8,898.5	9,012.6	8,902.5	26.1	26.8	137.74	710.9	-1,007.4	344.4	292.2	52.25	6.593		
9,100.0	8,998.5	9,112.6	9,002.5	26.2	26.9	137.74	710.1	-1,008.7	344.4	291.9	52.49	6.562		
9,200.0	9,098.4	9,212.6	9,102.4	26.4	27.0	137.74	709.3	-1,010.1	344.4	291.7	52.73	6.532		
9,300.0	9,198.4	9,312.6	9,202.4	26.5	27.2	137.74	708.5	-1,011.4	344.4	291.4	52.97	6.502		
9,400.0	9,298.4	9,412.6	9,302.4	26.6	27.3	137.74	707.8	-1,012.8	344.4	291.2	53.21	6.472		
9,500.0	9,398.4	9,512.6	9,402.4	26.7	27.4	137.74	707.0	-1,014.1	344.3	290.9	53.45	6.442		
9,600.0	9,498.4	9,612.6	9,502.4	26.8	27.5	137.74	706.2	-1,015.5	344.3	290.6	53.70	6.412		
9,700.0	9,598.4	9,712.6	9,602.4	27.0	27.6	137.75	705.4	-1,016.8	344.3	290.4	53.94	6.383		
9,800.0	9,698.4	9,812.6	9,702.4	27.1	27.7	137.75	704.7	-1,018.2	344.3	290.1	54.19	6.353		
9,900.0	9,798.4	9,912.6	9,802.4	27.2	27.9	137.75	703.9	-1,019.5	344.3	289.8	54.44	6.324		
10,000.0	9,898.3	10,012.6	9,902.4	27.3	28.0	137.75	703.1	-1,020.9	344.2	289.6	54.69	6.294		
10,100.0	9,998.3	10,112.6	10,002.3	27.5	28.1	137.75	702.3	-1,022.2	344.2	289.3	54.94	6.265		
10,145.7	10,044.0	10,158.3	10,048.0	27.5	28.1	137.75	702.0	-1,022.8	344.2	289.2	55.06	6.252 SF		

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

Cathedral Energy Services

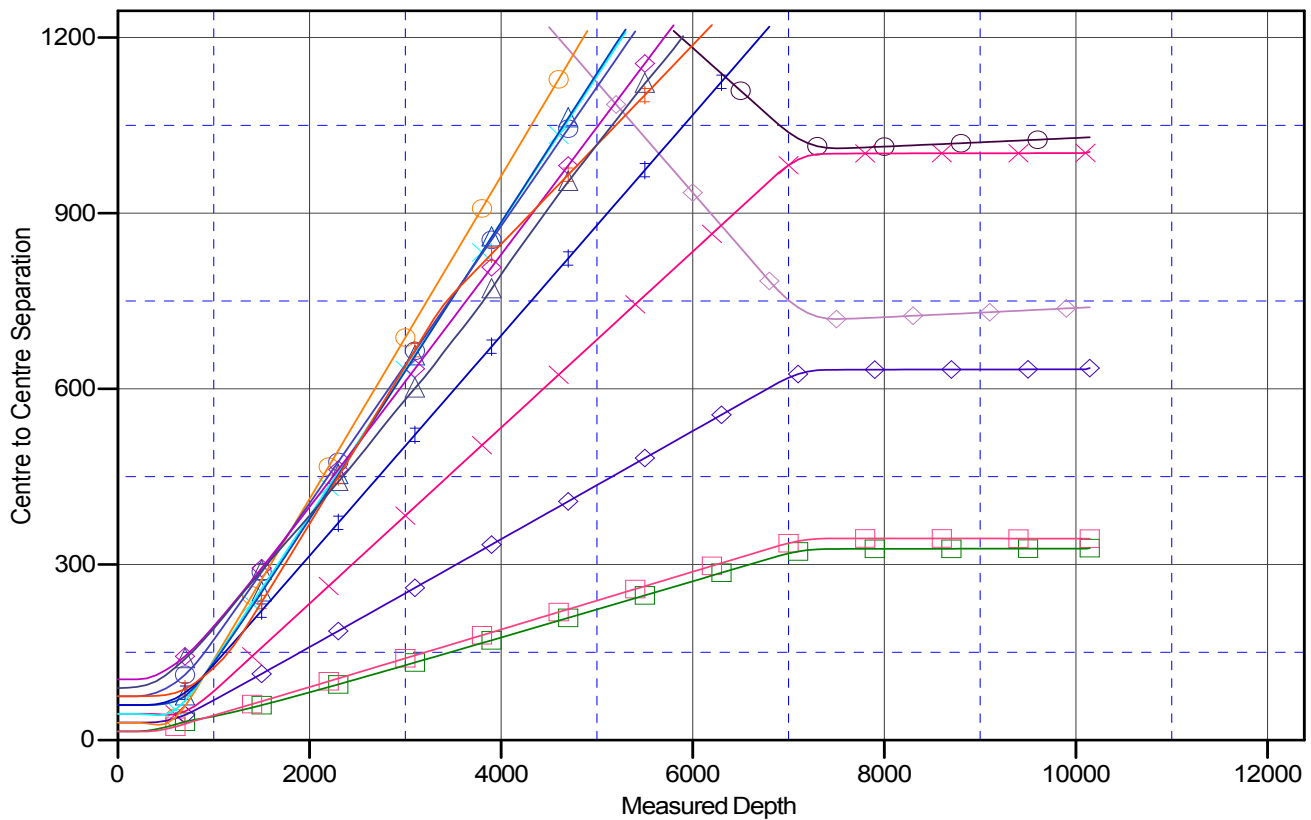
Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 6-37D
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 6-37D	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 6-37D
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.67°

Ladder Plot



LEGEND

◆ Chevron 6-39D, DD, Plan #1 V0	○ Chevron 6-21D, DD, Plan #2 V0	● Chevron 6-32D, DD, Plan #2 V0
● Chevron 6-40D, DD, Plan #1 V0	✕ Chevron 6-19D, DD, Plan #2 V0	◆ Chevron 6-23D, DD, Plan #2 V0
✕ Chevron 6-34D, DD, Plan #2 V0	▲ Chevron 6-20D, DD, Plan #2 V0	○ Chevron 6-22D, DD, Plan #3 V0
■ Chevron 6-36D, DD, Plan #2 V0	● Chevron 6-33D, DD, Plan #2 V0	▲ Chevron 6-25D, DD, DD V0
◆ Chevron 6-35D, DD, Plan #2 V0	■ Chevron 6-38D, DD, Plan #2 V0	