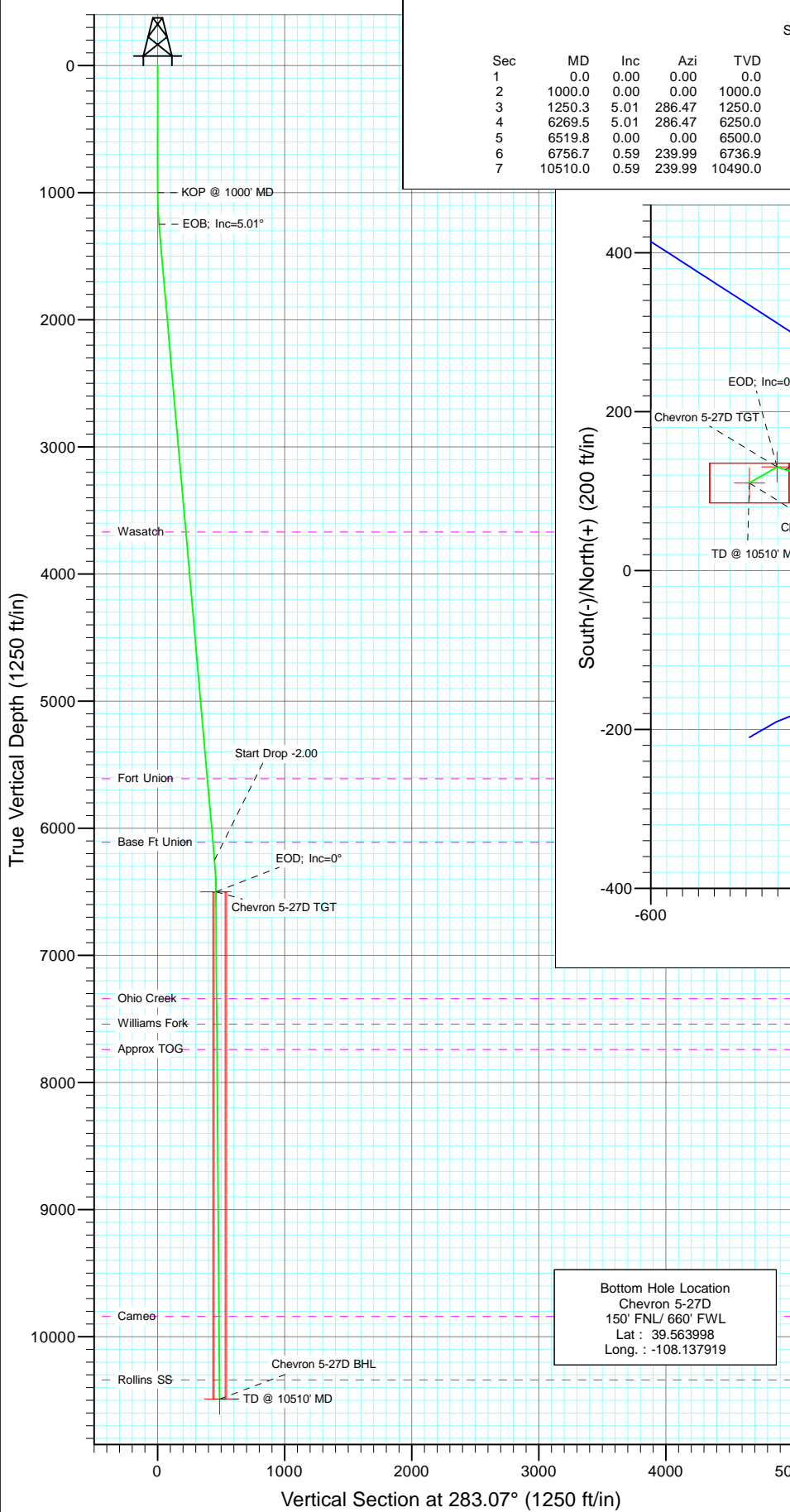
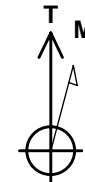
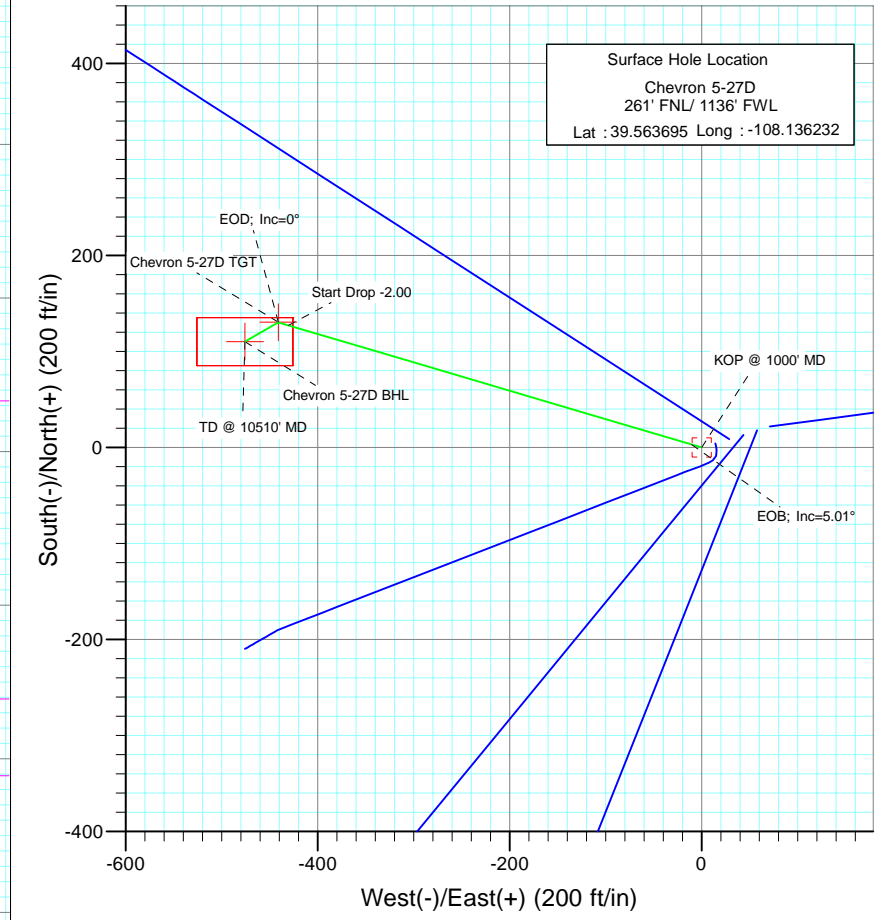


Project: Garfield County
Site: Chevron D05 696 Pad
Well: Chevron 5-27D
Wellbore: DD
Design: Plan #3



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1250.3	5.01	286.47	1250.0	3.1	-10.5	2.00	286.47	10.9	
4	6269.5	5.01	286.47	6250.0	127.3	-430.5	0.00	0.00	448.1	
5	6519.8	0.00	0.00	6500.0	130.4	-440.9	2.00	180.00	459.0	Chevron 5-27D TGT
6	6756.7	0.59	239.99	6736.9	129.8	-442.0	0.25	239.99	459.9	
7	10510.0	0.59	239.99	10490.0	110.4	-475.6	0.00	0.00	488.3	Chevron 5-27D BHL



Azimuths to True North
Magnetic North: 10.73°

Magnetic Field
Strength: 52533.1snT
Dip Angle: 65.85°
Date: 11/24/2008
Model: IGRF200510

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3670.0	3679.6	Wasatch
5610.0	5627.0	Fort Union
6110.0	6128.9	Base Ft Union
7340.0	7359.8	Ohio Creek
7540.0	7559.8	Williams Fork
7740.0	7759.8	Approx TOG
9840.0	9860.0	Cameo
10340.0	10360.0	Rollins SS

Bottom Hole Location
Chevron 5-27D
150' FNL/ 660' FWL
Lat : 39.563998
Long. : -108.137919

DESIGN DETAILS: Plan #3

85XXX; BH
KBE @ 8160.0ft (Original Well Elev)

Target	Azimuth	Origin	N/S	E/W	From TVD
Chevron 5-27D BHL	283.07	Slot	0.0	0.0	0.0

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 5-27D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site:	Chevron D05 696 Pad	North Reference:	True
Well:	Chevron 5-27D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

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		Chevron D05 696 Pad			
Site Position:		Northing:	1,641,014.90 ft	Latitude:	39.563760
From:	Lat/Long	Easting:	2,256,856.29 ft	Longitude:	-108.136313
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.66 °

Well	Chevron 5-27D					
Well Position	+N/-S	0.0 ft	Northing:	1,640,990.57 ft	Latitude:	39.563695
	+E/-W	0.0 ft	Easting:	2,256,878.43 ft	Longitude:	-108.136232
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,142.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	11/24/2008	10.73	65.85	52,533

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	283.07

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,250.3	5.01	286.47	1,250.0	3.1	-10.5	2.00	2.00	0.00	286.47	
6,269.5	5.01	286.47	6,250.0	127.3	-430.5	0.00	0.00	0.00	0.00	
6,519.8	0.00	0.00	6,500.0	130.4	-440.9	2.00	-2.00	0.00	180.00	Chevron 5-27D TGT
6,756.7	0.59	239.99	6,736.9	129.8	-442.0	0.25	0.25	-50.65	239.99	
10,510.0	0.59	239.99	10,490.0	110.4	-475.6	0.00	0.00	0.00	0.00	Chevron 5-27D BHL

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 5-27D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site:	Chevron D05 696 Pad	North Reference:	True
Well:	Chevron 5-27D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
30.0	0.00	0.00	30.0	0.0	0.0	0.0	0.00	0.00	
60.0	0.00	0.00	60.0	0.0	0.0	0.0	0.00	0.00	
90.0	0.00	0.00	90.0	0.0	0.0	0.0	0.00	0.00	
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	
180.0	0.00	0.00	180.0	0.0	0.0	0.0	0.00	0.00	
210.0	0.00	0.00	210.0	0.0	0.0	0.0	0.00	0.00	
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	
270.0	0.00	0.00	270.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
330.0	0.00	0.00	330.0	0.0	0.0	0.0	0.00	0.00	
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	
390.0	0.00	0.00	390.0	0.0	0.0	0.0	0.00	0.00	
420.0	0.00	0.00	420.0	0.0	0.0	0.0	0.00	0.00	
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	
510.0	0.00	0.00	510.0	0.0	0.0	0.0	0.00	0.00	
540.0	0.00	0.00	540.0	0.0	0.0	0.0	0.00	0.00	
570.0	0.00	0.00	570.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
630.0	0.00	0.00	630.0	0.0	0.0	0.0	0.00	0.00	
660.0	0.00	0.00	660.0	0.0	0.0	0.0	0.00	0.00	
690.0	0.00	0.00	690.0	0.0	0.0	0.0	0.00	0.00	
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	
750.0	0.00	0.00	750.0	0.0	0.0	0.0	0.00	0.00	
780.0	0.00	0.00	780.0	0.0	0.0	0.0	0.00	0.00	
810.0	0.00	0.00	810.0	0.0	0.0	0.0	0.00	0.00	
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	
870.0	0.00	0.00	870.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
930.0	0.00	0.00	930.0	0.0	0.0	0.0	0.00	0.00	
960.0	0.00	0.00	960.0	0.0	0.0	0.0	0.00	0.00	
990.0	0.00	0.00	990.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	KOP @ 1000' MD
1,020.0	0.40	286.47	1,020.0	0.0	-0.1	0.1	2.00	2.00	
1,050.0	1.00	286.47	1,050.0	0.1	-0.4	0.4	2.00	2.00	
1,080.0	1.60	286.47	1,080.0	0.3	-1.1	1.1	2.00	2.00	
1,110.0	2.20	286.47	1,110.0	0.6	-2.0	2.1	2.00	2.00	
1,140.0	2.80	286.47	1,139.9	1.0	-3.3	3.4	2.00	2.00	
1,170.0	3.40	286.47	1,169.9	1.4	-4.8	5.0	2.00	2.00	
1,200.0	4.00	286.47	1,199.8	2.0	-6.7	7.0	2.00	2.00	
1,230.0	4.60	286.47	1,229.8	2.6	-8.8	9.2	2.00	2.00	
1,250.3	5.01	286.47	1,250.0	3.1	-10.5	10.9	2.00	2.00	EOB; Inc=5.01°
1,260.0	5.01	286.47	1,259.6	3.3	-11.3	11.8	0.00	0.00	
1,290.0	5.01	286.47	1,289.5	4.1	-13.8	14.4	0.00	0.00	
1,320.0	5.01	286.47	1,319.4	4.8	-16.3	17.0	0.00	0.00	
1,350.0	5.01	286.47	1,349.3	5.6	-18.8	19.6	0.00	0.00	
1,380.0	5.01	286.47	1,379.2	6.3	-21.3	22.2	0.00	0.00	
1,410.0	5.01	286.47	1,409.1	7.1	-23.8	24.8	0.00	0.00	
1,440.0	5.01	286.47	1,439.0	7.8	-26.4	27.4	0.00	0.00	
1,470.0	5.01	286.47	1,468.8	8.5	-28.9	30.0	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 5-27D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site:	Chevron D05 696 Pad	North Reference:	True
Well:	Chevron 5-27D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
1,500.0	5.01	286.47	1,498.7	9.3	-31.4	32.7	0.00	0.00	
1,530.0	5.01	286.47	1,528.6	10.0	-33.9	35.3	0.00	0.00	
1,560.0	5.01	286.47	1,558.5	10.8	-36.4	37.9	0.00	0.00	
1,590.0	5.01	286.47	1,588.4	11.5	-38.9	40.5	0.00	0.00	
1,620.0	5.01	286.47	1,618.3	12.2	-41.4	43.1	0.00	0.00	
1,650.0	5.01	286.47	1,648.2	13.0	-43.9	45.7	0.00	0.00	
1,680.0	5.01	286.47	1,678.0	13.7	-46.4	48.3	0.00	0.00	
1,710.0	5.01	286.47	1,707.9	14.5	-48.9	51.0	0.00	0.00	
1,740.0	5.01	286.47	1,737.8	15.2	-51.5	53.6	0.00	0.00	
1,770.0	5.01	286.47	1,767.7	16.0	-54.0	56.2	0.00	0.00	
1,800.0	5.01	286.47	1,797.6	16.7	-56.5	58.8	0.00	0.00	
1,830.0	5.01	286.47	1,827.5	17.4	-59.0	61.4	0.00	0.00	
1,860.0	5.01	286.47	1,857.4	18.2	-61.5	64.0	0.00	0.00	
1,890.0	5.01	286.47	1,887.2	18.9	-64.0	66.6	0.00	0.00	
1,920.0	5.01	286.47	1,917.1	19.7	-66.5	69.2	0.00	0.00	
1,950.0	5.01	286.47	1,947.0	20.4	-69.0	71.9	0.00	0.00	
1,980.0	5.01	286.47	1,976.9	21.2	-71.5	74.5	0.00	0.00	
2,010.0	5.01	286.47	2,006.8	21.9	-74.0	77.1	0.00	0.00	
2,040.0	5.01	286.47	2,036.7	22.6	-76.6	79.7	0.00	0.00	
2,070.0	5.01	286.47	2,066.6	23.4	-79.1	82.3	0.00	0.00	
2,100.0	5.01	286.47	2,096.4	24.1	-81.6	84.9	0.00	0.00	
2,130.0	5.01	286.47	2,126.3	24.9	-84.1	87.5	0.00	0.00	
2,160.0	5.01	286.47	2,156.2	25.6	-86.6	90.1	0.00	0.00	
2,190.0	5.01	286.47	2,186.1	26.4	-89.1	92.8	0.00	0.00	
2,220.0	5.01	286.47	2,216.0	27.1	-91.6	95.4	0.00	0.00	
2,250.0	5.01	286.47	2,245.9	27.8	-94.1	98.0	0.00	0.00	
2,280.0	5.01	286.47	2,275.8	28.6	-96.6	100.6	0.00	0.00	
2,310.0	5.01	286.47	2,305.6	29.3	-99.2	103.2	0.00	0.00	
2,340.0	5.01	286.47	2,335.5	30.1	-101.7	105.8	0.00	0.00	
2,370.0	5.01	286.47	2,365.4	30.8	-104.2	108.4	0.00	0.00	
2,400.0	5.01	286.47	2,395.3	31.5	-106.7	111.1	0.00	0.00	
2,430.0	5.01	286.47	2,425.2	32.3	-109.2	113.7	0.00	0.00	
2,460.0	5.01	286.47	2,455.1	33.0	-111.7	116.3	0.00	0.00	
2,490.0	5.01	286.47	2,485.0	33.8	-114.2	118.9	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 5-27D BHL	0.00	0.00	10,490.0	110.4	-475.6	1,641,114.70	2,256,406.22	39.563998	-108.137919
- plan misses target center by 8013.6ft at 2490.0ft MD (2485.0 TVD, 33.8 N, -114.2 E)									
- Rectangle (sides W50.0 H100.0 D0.0)									
Chevron 5-27D TGT	0.00	0.00	6,500.0	130.4	-440.9	1,641,133.71	2,256,441.45	39.564053	-108.137796
- plan misses target center by 4029.5ft at 2490.0ft MD (2485.0 TVD, 33.8 N, -114.2 E)									
- Point									

Cathedral Energy Services

Planning Report

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Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site:	Chevron D05 696 Pad	North Reference:	True
Well:	Chevron 5-27D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

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	5.01	286.47	2,494.9	34.0	-115.1	119.8	0.00	0.00	
2,600.0	5.01	286.47	2,594.5	36.5	-123.4	128.5	0.00	0.00	
2,700.0	5.01	286.47	2,694.2	39.0	-131.8	137.2	0.00	0.00	
2,800.0	5.01	286.47	2,793.8	41.4	-140.2	145.9	0.00	0.00	
2,900.0	5.01	286.47	2,893.4	43.9	-148.5	154.6	0.00	0.00	
3,000.0	5.01	286.47	2,993.0	46.4	-156.9	163.3	0.00	0.00	
3,100.0	5.01	286.47	3,092.6	48.9	-165.3	172.0	0.00	0.00	
3,200.0	5.01	286.47	3,192.2	51.3	-173.6	180.7	0.00	0.00	
3,300.0	5.01	286.47	3,291.9	53.8	-182.0	189.4	0.00	0.00	
3,400.0	5.01	286.47	3,391.5	56.3	-190.4	198.2	0.00	0.00	
3,500.0	5.01	286.47	3,491.1	58.8	-198.7	206.9	0.00	0.00	
3,600.0	5.01	286.47	3,590.7	61.2	-207.1	215.6	0.00	0.00	
3,679.6	5.01	286.47	3,670.0	63.2	-213.8	222.5	0.00	0.00	Wasatch
3,700.0	5.01	286.47	3,690.3	63.7	-215.5	224.3	0.00	0.00	
3,800.0	5.01	286.47	3,790.0	66.2	-223.8	233.0	0.00	0.00	
3,900.0	5.01	286.47	3,889.6	68.7	-232.2	241.7	0.00	0.00	
4,000.0	5.01	286.47	3,989.2	71.1	-240.6	250.4	0.00	0.00	
4,100.0	5.01	286.47	4,088.8	73.6	-248.9	259.1	0.00	0.00	
4,200.0	5.01	286.47	4,188.4	76.1	-257.3	267.8	0.00	0.00	
4,300.0	5.01	286.47	4,288.0	78.6	-265.7	276.6	0.00	0.00	
4,400.0	5.01	286.47	4,387.7	81.0	-274.0	285.3	0.00	0.00	
4,500.0	5.01	286.47	4,487.3	83.5	-282.4	294.0	0.00	0.00	
4,600.0	5.01	286.47	4,586.9	86.0	-290.8	302.7	0.00	0.00	
4,700.0	5.01	286.47	4,686.5	88.5	-299.1	311.4	0.00	0.00	
4,800.0	5.01	286.47	4,786.1	90.9	-307.5	320.1	0.00	0.00	
4,900.0	5.01	286.47	4,885.8	93.4	-315.9	328.8	0.00	0.00	
5,000.0	5.01	286.47	4,985.4	95.9	-324.2	337.5	0.00	0.00	
5,100.0	5.01	286.47	5,085.0	98.4	-332.6	346.2	0.00	0.00	
5,200.0	5.01	286.47	5,184.6	100.8	-341.0	354.9	0.00	0.00	
5,300.0	5.01	286.47	5,284.2	103.3	-349.3	363.7	0.00	0.00	
5,400.0	5.01	286.47	5,383.9	105.8	-357.7	372.4	0.00	0.00	
5,500.0	5.01	286.47	5,483.5	108.3	-366.1	381.1	0.00	0.00	
5,600.0	5.01	286.47	5,583.1	110.7	-374.5	389.8	0.00	0.00	
5,627.0	5.01	286.47	5,610.0	111.4	-376.7	392.1	0.00	0.00	Fort Union
5,700.0	5.01	286.47	5,682.7	113.2	-382.8	398.5	0.00	0.00	
5,800.0	5.01	286.47	5,782.3	115.7	-391.2	407.2	0.00	0.00	
5,900.0	5.01	286.47	5,881.9	118.2	-399.6	415.9	0.00	0.00	
6,000.0	5.01	286.47	5,981.6	120.6	-407.9	424.6	0.00	0.00	
6,100.0	5.01	286.47	6,081.2	123.1	-416.3	433.3	0.00	0.00	
6,128.9	5.01	286.47	6,110.0	123.8	-418.7	435.9	0.00	0.00	Base Ft Union
6,200.0	5.01	286.47	6,180.8	125.6	-424.7	442.1	0.00	0.00	
6,269.5	5.01	286.47	6,250.0	127.3	-430.5	448.1	0.00	0.00	Start Drop -2.00
6,300.0	4.40	286.47	6,280.4	128.0	-432.9	450.6	2.00	-2.00	
6,400.0	2.40	286.47	6,380.3	129.7	-438.5	456.5	2.00	-2.00	
6,500.0	0.40	286.47	6,480.2	130.4	-440.9	458.9	2.00	-2.00	
6,519.8	0.00	0.00	6,500.0	130.4	-440.9	459.0	2.00	-2.00	EOD; Inc=0° - Chevron 5-27D TGT
6,600.0	0.20	239.99	6,580.2	130.3	-441.1	459.1	0.25	0.25	
6,700.0	0.45	239.99	6,680.2	130.0	-441.6	459.5	0.25	0.25	
6,756.7	0.59	239.99	6,736.9	129.8	-442.0	459.9	0.25	0.25	
6,800.0	0.59	239.99	6,780.2	129.6	-442.4	460.2	0.00	0.00	
6,900.0	0.59	239.99	6,880.2	129.0	-443.3	461.0	0.00	0.00	
7,000.0	0.59	239.99	6,980.2	128.5	-444.2	461.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 5-27D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site:	Chevron D05 696 Pad	North Reference:	True
Well:	Chevron 5-27D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

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
7,100.0	0.59	239.99	7,080.2	128.0	-445.1	462.5	0.00	0.00	
7,200.0	0.59	239.99	7,180.2	127.5	-446.0	463.3	0.00	0.00	
7,300.0	0.59	239.99	7,280.2	127.0	-446.9	464.0	0.00	0.00	
7,359.8	0.59	239.99	7,340.0	126.7	-447.4	464.5	0.00	0.00	Ohio Creek
7,400.0	0.59	239.99	7,380.2	126.5	-447.8	464.8	0.00	0.00	
7,500.0	0.59	239.99	7,480.2	125.9	-448.7	465.5	0.00	0.00	
7,559.8	0.59	239.99	7,540.0	125.6	-449.2	466.0	0.00	0.00	Williams Fork
7,600.0	0.59	239.99	7,580.2	125.4	-449.6	466.3	0.00	0.00	
7,700.0	0.59	239.99	7,680.2	124.9	-450.5	467.0	0.00	0.00	
7,759.8	0.59	239.99	7,740.0	124.6	-451.0	467.5	0.00	0.00	Approx TOG
7,800.0	0.59	239.99	7,780.2	124.4	-451.4	467.8	0.00	0.00	
7,900.0	0.59	239.99	7,880.2	123.9	-452.2	468.5	0.00	0.00	
8,000.0	0.59	239.99	7,980.1	123.4	-453.1	469.3	0.00	0.00	
8,100.0	0.59	239.99	8,080.1	122.8	-454.0	470.1	0.00	0.00	
8,200.0	0.59	239.99	8,180.1	122.3	-454.9	470.8	0.00	0.00	
8,300.0	0.59	239.99	8,280.1	121.8	-455.8	471.6	0.00	0.00	
8,400.0	0.59	239.99	8,380.1	121.3	-456.7	472.3	0.00	0.00	
8,500.0	0.59	239.99	8,480.1	120.8	-457.6	473.1	0.00	0.00	
8,600.0	0.59	239.99	8,580.1	120.3	-458.5	473.8	0.00	0.00	
8,700.0	0.59	239.99	8,680.1	119.7	-459.4	474.6	0.00	0.00	
8,800.0	0.59	239.99	8,780.1	119.2	-460.3	475.3	0.00	0.00	
8,900.0	0.59	239.99	8,880.1	118.7	-461.2	476.1	0.00	0.00	
9,000.0	0.59	239.99	8,980.1	118.2	-462.1	476.9	0.00	0.00	
9,100.0	0.59	239.99	9,080.1	117.7	-463.0	477.6	0.00	0.00	
9,200.0	0.59	239.99	9,180.1	117.2	-463.9	478.4	0.00	0.00	
9,300.0	0.59	239.99	9,280.1	116.6	-464.8	479.1	0.00	0.00	
9,400.0	0.59	239.99	9,380.1	116.1	-465.7	479.9	0.00	0.00	
9,500.0	0.59	239.99	9,480.1	115.6	-466.6	480.6	0.00	0.00	
9,600.0	0.59	239.99	9,580.1	115.1	-467.5	481.4	0.00	0.00	
9,700.0	0.59	239.99	9,680.1	114.6	-468.4	482.1	0.00	0.00	
9,800.0	0.59	239.99	9,780.1	114.1	-469.3	482.9	0.00	0.00	
9,860.0	0.59	239.99	9,840.0	113.7	-469.8	483.3	0.00	0.00	Cameo
9,900.0	0.59	239.99	9,880.0	113.5	-470.2	483.6	0.00	0.00	
10,000.0	0.59	239.99	9,980.0	113.0	-471.0	484.4	0.00	0.00	
10,100.0	0.59	239.99	10,080.0	112.5	-471.9	485.2	0.00	0.00	
10,200.0	0.59	239.99	10,180.0	112.0	-472.8	485.9	0.00	0.00	
10,300.0	0.59	239.99	10,280.0	111.5	-473.7	486.7	0.00	0.00	
10,360.0	0.59	239.99	10,340.0	111.2	-474.3	487.1	0.00	0.00	Rollins SS
10,400.0	0.59	239.99	10,380.0	110.9	-474.6	487.4	0.00	0.00	
10,500.0	0.59	239.99	10,480.0	110.4	-475.5	488.2	0.00	0.00	
10,510.0	0.59	239.99	10,490.0	110.4	-475.6	488.3	0.00	0.00	Chevron 5-27D BHL

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Chevron 5-27D
Company:	Berry Petroleum Company (NAD 83)	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Project:	Garfield County	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site:	Chevron D05 696 Pad	North Reference:	True
Well:	Chevron 5-27D	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Chevron 5-27D BHL	0.00	0.00	10,490.0	110.4	-475.6	1,641,114.70	2,256,406.22	39.563998	-108.137919
- plan hits target center									
- Rectangle (sides W50.0 H100.0 D0.0)									
Chevron 5-27D TGT	0.00	0.00	6,500.0	130.4	-440.9	1,641,133.71	2,256,441.45	39.564053	-108.137796
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
3,679.6	3,670.0	Wasatch		0.00		
5,627.0	5,610.0	Fort Union		0.00		
6,128.9	6,110.0	Base Ft Union		0.00		
7,359.8	7,340.0	Ohio Creek		0.00		
7,559.8	7,540.0	Williams Fork		0.00		
7,759.8	7,740.0	Approx TOG		0.00		
9,860.0	9,840.0	Cameo		0.00		
10,360.0	10,340.0	Rollins SS		0.00		

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
1,000.0	1,000.0	0.0	0.0	KOP @ 1000' MD	
1,250.3	1,250.0	3.1	-10.5	EOB; Inc=5.01°	
6,269.5	6,250.0	127.3	-430.5	Start Drop -2.00	
6,519.8	6,500.0	130.4	-440.9	EOD; Inc=0°	
10,510.0	10,490.0	110.4	-475.6	TD @ 10510' MD	

Berry Petroleum Company (NAD 83)

**Garfield County
Chevron D05 696 Pad
Chevron 5-26D
DD
Plan #2**

Anticollision Report

22 November, 2010

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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	11/22/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,378.0	Plan #2 (DD)	MWD	Geolink MWD	

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
Chevron D05 696 Pad						
Chevron 5-16D - DD - Plan #3	200.0	200.0	29.0	28.3	45.615	CC, ES
Chevron 5-16D - DD - Plan #3	400.0	397.2	41.7	40.4	31.243	SF
Chevron 5-24D - DD - Plan #2	200.0	200.0	15.1	14.5	23.828	CC, ES
Chevron 5-24D - DD - Plan #2	1,000.0	1,001.4	31.9	27.6	7.347	SF
Chevron 5-27D - DD - Plan #3	726.3	724.7	25.2	22.5	9.427	CC, ES
Chevron 5-27D - DD - Plan #3	800.0	798.0	26.2	23.3	8.857	SF
Chevron 5-28D - DD - Plan #4	669.7	667.7	16.3	13.9	6.844	CC, ES
Chevron 5-28D - DD - Plan #4	900.0	897.8	20.3	16.9	5.841	SF

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 D05 696 Pad - Chevron 5-16D - 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		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	72.44	8.7	27.6	29.0					
100.0	100.0	100.0	100.0	0.1	0.1	72.44	8.7	27.6	29.0	28.7	0.29	101.243		
200.0	200.0	200.0	200.0	0.3	0.3	72.44	8.7	27.6	29.0	28.3	0.64	45.615 CC, ES		
300.0	300.0	298.9	298.9	0.5	0.5	-148.10	9.0	29.3	32.1	31.2	0.98	32.692		
400.0	399.8	397.2	397.1	0.7	0.7	-150.41	9.6	34.4	41.7	40.4	1.33	31.243 SF		
500.0	499.5	494.3	493.8	0.9	0.9	-152.53	10.7	42.6	57.5	55.9	1.69	34.060		
600.0	599.0	592.0	590.9	1.1	1.1	-153.66	12.1	53.2	76.7	74.6	2.05	37.407		
700.0	698.5	690.1	688.4	1.4	1.4	-154.33	13.6	64.0	95.9	93.5	2.41	39.752		
800.0	798.0	788.2	785.9	1.6	1.6	-154.77	15.0	74.7	115.2	112.4	2.78	41.468		
900.0	897.6	886.3	883.4	1.9	1.9	-155.09	16.4	85.5	134.5	131.3	3.14	42.777		
1,000.0	997.1	984.5	981.0	2.1	2.1	-155.32	17.9	96.2	153.8	150.2	3.51	43.807		
1,100.0	1,096.6	1,082.6	1,078.5	2.3	2.4	-155.51	19.3	107.0	173.0	169.2	3.88	44.638		
1,200.0	1,196.1	1,180.7	1,176.0	2.6	2.6	-155.65	20.7	117.8	192.3	188.1	4.24	45.323		
1,300.0	1,295.6	1,278.8	1,273.5	2.8	2.9	-155.77	22.2	128.5	211.6	207.0	4.61	45.897		
1,400.0	1,395.2	1,377.0	1,371.0	3.1	3.1	-155.88	23.6	139.3	230.9	225.9	4.98	46.384		
1,500.0	1,494.7	1,475.1	1,468.6	3.3	3.4	-155.96	25.0	150.0	250.2	244.8	5.34	46.804		
1,600.0	1,594.2	1,573.2	1,566.1	3.5	3.7	-156.03	26.4	160.8	269.4	263.7	5.71	47.169		
1,700.0	1,693.7	1,671.3	1,663.6	3.8	3.9	-156.10	27.9	171.5	288.7	282.6	6.08	47.489		
1,800.0	1,793.3	1,769.5	1,761.1	4.0	4.2	-156.15	29.3	182.3	308.0	301.5	6.45	47.772		
1,900.0	1,892.8	1,867.6	1,858.6	4.3	4.4	-156.20	30.7	193.1	327.3	320.5	6.81	48.023		
2,000.0	1,992.3	1,965.7	1,956.2	4.5	4.7	-156.24	32.2	203.8	346.6	339.4	7.18	48.249		
2,100.0	2,091.8	2,063.8	2,053.7	4.8	4.9	-156.28	33.6	214.6	365.8	358.3	7.55	48.453		
2,200.0	2,191.3	2,161.9	2,151.2	5.0	5.2	-156.32	35.0	225.3	385.1	377.2	7.92	48.637		
2,300.0	2,290.9	2,260.1	2,248.7	5.3	5.4	-156.35	36.5	236.1	404.4	396.1	8.29	48.805		
2,400.0	2,390.4	2,358.2	2,346.3	5.5	5.7	-156.38	37.9	246.8	423.7	415.0	8.65	48.958		
2,500.0	2,489.9	2,456.3	2,443.8	5.7	6.0	-156.40	39.3	257.6	443.0	433.9	9.02	49.099		
2,600.0	2,589.4	2,554.4	2,541.3	6.0	6.2	-156.43	40.8	268.4	462.2	452.9	9.39	49.229		
2,700.0	2,689.0	2,652.6	2,638.8	6.2	6.5	-156.45	42.2	279.1	481.5	471.8	9.76	49.348		
2,800.0	2,788.5	2,750.7	2,736.3	6.5	6.7	-156.47	43.6	289.9	500.8	490.7	10.13	49.459		
2,900.0	2,888.0	2,848.8	2,833.9	6.7	7.0	-156.49	45.0	300.6	520.1	509.6	10.49	49.562		
3,000.0	2,987.5	2,946.9	2,931.4	7.0	7.2	-156.51	46.5	311.4	539.4	528.5	10.86	49.659		
3,100.0	3,087.1	3,045.1	3,028.9	7.2	7.5	-156.52	47.9	322.1	558.7	547.4	11.23	49.748		
3,200.0	3,186.6	3,143.2	3,126.4	7.4	7.7	-156.54	49.3	332.9	577.9	566.3	11.60	49.832		
3,300.0	3,286.1	3,241.3	3,223.9	7.7	8.0	-156.55	50.8	343.6	597.2	585.3	11.97	49.911		
3,400.0	3,385.6	3,339.4	3,321.5	7.9	8.3	-156.56	52.2	354.4	616.5	604.2	12.33	49.985		
3,500.0	3,485.1	3,437.5	3,419.0	8.2	8.5	-156.58	53.6	365.2	635.8	623.1	12.70	50.055		
3,600.0	3,584.7	3,535.7	3,516.5	8.4	8.8	-156.59	55.1	375.9	655.1	642.0	13.07	50.120		
3,700.0	3,684.2	3,633.8	3,614.0	8.7	9.0	-156.60	56.5	386.7	674.4	660.9	13.44	50.182		
3,800.0	3,783.7	3,731.9	3,711.6	8.9	9.3	-156.61	57.9	397.4	693.6	679.8	13.81	50.241		
3,900.0	3,883.2	3,830.0	3,809.1	9.2	9.5	-156.62	59.3	408.2	712.9	698.7	14.17	50.297		
4,000.0	3,982.8	3,928.2	3,906.6	9.4	9.8	-156.63	60.8	418.9	732.2	717.7	14.54	50.350		
4,100.0	4,082.3	4,026.3	4,004.1	9.6	10.0	-156.64	62.2	429.7	751.5	736.6	14.91	50.400		
4,200.0	4,181.8	4,124.4	4,101.6	9.9	10.3	-156.65	63.6	440.5	770.8	755.5	15.28	50.448		
4,300.0	4,281.3	4,222.5	4,199.2	10.1	10.6	-156.65	65.1	451.2	790.1	774.4	15.65	50.493		
4,400.0	4,380.9	4,320.7	4,296.7	10.4	10.8	-156.66	66.5	462.0	809.3	793.3	16.01	50.536		
4,500.0	4,480.4	4,418.8	4,394.2	10.6	11.1	-156.67	67.9	472.7	828.6	812.2	16.38	50.578		
4,600.0	4,579.9	4,516.9	4,491.7	10.9	11.3	-156.68	69.4	483.5	847.9	831.1	16.75	50.618		
4,700.0	4,679.4	4,615.0	4,589.2	11.1	11.6	-156.68	70.8	494.2	867.2	850.1	17.12	50.655		
4,800.0	4,778.9	4,713.1	4,686.8	11.3	11.8	-156.69	72.2	505.0	886.5	869.0	17.49	50.692		
4,900.0	4,878.5	4,811.3	4,784.3	11.6	12.1	-156.70	73.7	515.8	905.7	887.9	17.86	50.726		
5,000.0	4,978.0	4,909.4	4,881.8	11.8	12.4	-156.70	75.1	526.5	925.0	906.8	18.22	50.760		
5,100.0	5,077.5	5,007.5	4,979.3	12.1	12.6	-156.71	76.5	537.3	944.3	925.7	18.59	50.792		

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 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 D05 696 Pad - Chevron 5-16D - 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							
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	5,177.0	5,105.6	5,076.8	12.3	12.9	-156.71	77.9	548.0	963.6	944.6	18.96	50.823		
5,300.0	5,276.6	5,203.8	5,174.4	12.6	13.1	-156.72	79.4	558.8	982.9	963.6	19.33	50.852		
5,400.0	5,376.1	5,301.9	5,271.9	12.8	13.4	-156.72	80.8	569.5	1,002.2	982.5	19.70	50.881		
5,500.0	5,475.6	5,400.0	5,369.4	13.1	13.6	-156.73	82.2	580.3	1,021.4	1,001.4	20.06	50.908		
5,600.0	5,575.1	5,498.1	5,466.9	13.3	13.9	-156.73	83.7	591.1	1,040.7	1,020.3	20.43	50.935		
5,700.0	5,674.6	5,596.3	5,564.5	13.5	14.1	-156.74	85.1	601.8	1,060.0	1,039.2	20.80	50.960		
5,800.0	5,774.2	5,694.4	5,662.0	13.8	14.4	-156.74	86.5	612.6	1,079.3	1,058.1	21.17	50.985		
5,900.0	5,873.7	5,792.5	5,759.5	14.0	14.7	-156.75	88.0	623.3	1,098.6	1,077.0	21.54	51.009		
6,000.0	5,973.2	5,890.6	5,857.0	14.3	14.9	-156.75	89.4	634.1	1,117.9	1,096.0	21.91	51.032		
6,100.0	6,072.7	5,988.8	5,954.5	14.5	15.2	-156.75	90.8	644.8	1,137.1	1,114.9	22.27	51.054		
6,200.0	6,172.3	6,086.9	6,052.1	14.8	15.4	-156.76	92.2	655.6	1,156.4	1,133.8	22.64	51.075		
6,300.0	6,271.8	6,185.0	6,149.6	15.0	15.7	-156.76	93.7	666.4	1,175.7	1,152.7	23.01	51.096		
6,400.0	6,371.3	6,283.1	6,247.1	15.3	15.9	-156.76	95.1	677.1	1,195.0	1,171.6	23.38	51.116		
6,500.0	6,470.8	6,381.2	6,344.6	15.5	16.2	-156.77	96.5	687.9	1,214.3	1,190.5	23.75	51.136		

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Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 D05 696 Pad - Chevron 5-24D - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	71.77	4.7	14.4	15.1					
100.0	100.0	100.0	100.0	0.1	0.1	71.77	4.7	14.4	15.1	14.9	0.29	52.887		
200.0	200.0	200.0	200.0	0.3	0.3	71.77	4.7	14.4	15.1	14.5	0.64	23.828 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-150.86	4.7	14.4	16.6	15.7	0.98	16.893		
400.0	399.8	400.4	400.3	0.7	0.7	-154.48	3.1	13.7	20.1	18.7	1.34	14.981		
500.0	499.5	500.9	500.7	0.9	0.9	-154.75	-1.8	11.8	24.0	22.3	1.70	14.108		
600.0	599.0	601.4	600.9	1.1	1.1	-150.81	-10.0	8.5	26.5	24.4	2.10	12.642		
700.0	698.5	701.9	700.6	1.4	1.3	-141.81	-21.4	4.0	27.0	24.4	2.56	10.544		
785.7	783.8	787.8	785.5	1.6	1.6	-129.19	-33.8	-0.9	26.8	23.7	3.06	8.764		
800.0	798.0	802.1	799.5	1.6	1.6	-126.72	-36.0	-1.8	26.8	23.7	3.15	8.522		
900.0	897.6	901.7	897.8	1.9	2.0	-110.15	-51.5	-8.0	28.3	24.6	3.77	7.510		
1,000.0	997.1	1,001.4	996.0	2.1	2.3	-96.28	-67.1	-14.1	31.9	27.6	4.35	7.347 SF		
1,100.0	1,096.6	1,101.1	1,094.3	2.3	2.6	-85.68	-82.7	-20.3	37.0	32.1	4.85	7.631		
1,200.0	1,196.1	1,200.7	1,192.5	2.6	2.9	-77.82	-98.2	-26.5	43.0	37.7	5.30	8.114		
1,300.0	1,295.6	1,300.4	1,290.8	2.8	3.3	-71.96	-113.8	-32.6	49.6	43.9	5.72	8.668		
1,400.0	1,395.2	1,400.1	1,389.0	3.1	3.6	-67.51	-129.3	-38.8	56.6	50.5	6.13	9.229		
1,500.0	1,494.7	1,499.7	1,487.3	3.3	3.9	-64.06	-144.9	-45.0	63.9	57.3	6.54	9.769		
1,600.0	1,594.2	1,599.4	1,585.5	3.5	4.3	-61.32	-160.4	-51.1	71.3	64.4	6.94	10.276		
1,700.0	1,693.7	1,699.1	1,683.8	3.8	4.6	-59.10	-176.0	-57.3	78.9	71.6	7.34	10.748		
1,800.0	1,793.3	1,798.8	1,782.1	4.0	4.9	-57.27	-191.5	-63.5	86.6	78.8	7.74	11.183		
1,900.0	1,892.8	1,898.4	1,880.3	4.3	5.3	-55.74	-207.1	-69.7	94.3	86.2	8.14	11.583		
2,000.0	1,992.3	1,998.1	1,978.6	4.5	5.6	-54.44	-222.6	-75.8	102.1	93.6	8.55	11.952		
2,100.0	2,091.8	2,097.8	2,076.8	4.8	5.9	-53.33	-238.2	-82.0	110.0	101.0	8.95	12.292		
2,200.0	2,191.3	2,197.4	2,175.1	5.0	6.3	-52.37	-253.8	-88.2	117.9	108.5	9.35	12.606		
2,300.0	2,290.9	2,297.1	2,273.3	5.3	6.6	-51.52	-269.3	-94.3	125.8	116.0	9.75	12.896		
2,400.0	2,390.4	2,396.8	2,371.6	5.5	7.0	-50.78	-284.9	-100.5	133.7	123.6	10.16	13.165		
2,500.0	2,489.9	2,496.4	2,469.8	5.7	7.3	-50.12	-300.4	-106.7	141.7	131.1	10.56	13.415		
2,600.0	2,589.4	2,596.1	2,568.1	6.0	7.6	-49.53	-316.0	-112.8	149.7	138.7	10.97	13.647		
2,700.0	2,689.0	2,695.8	2,666.3	6.2	8.0	-49.00	-331.5	-119.0	157.7	146.3	11.37	13.863		
2,800.0	2,788.5	2,795.5	2,764.6	6.5	8.3	-48.52	-347.1	-125.2	165.7	153.9	11.78	14.065		
2,900.0	2,888.0	2,895.1	2,862.9	6.7	8.7	-48.09	-362.6	-131.4	173.7	161.5	12.19	14.255		
3,000.0	2,987.5	2,994.8	2,961.1	7.0	9.0	-47.69	-378.2	-137.5	181.7	169.1	12.59	14.432		
3,100.0	3,087.1	3,094.5	3,059.4	7.2	9.3	-47.33	-393.7	-143.7	189.8	176.8	13.00	14.599		
3,200.0	3,186.6	3,194.1	3,157.6	7.4	9.7	-47.00	-409.3	-149.9	197.8	184.4	13.40	14.756		
3,300.0	3,286.1	3,293.8	3,255.9	7.7	10.0	-46.69	-424.8	-156.0	205.8	192.0	13.81	14.903		
3,400.0	3,385.6	3,393.5	3,354.1	7.9	10.4	-46.41	-440.4	-162.2	213.9	199.7	14.22	15.043		
3,500.0	3,485.1	3,493.1	3,452.4	8.2	10.7	-46.15	-456.0	-168.4	221.9	207.3	14.63	15.175		
3,600.0	3,584.7	3,592.8	3,550.6	8.4	11.0	-45.90	-471.5	-174.6	230.0	215.0	15.03	15.300		
3,700.0	3,684.2	3,692.5	3,648.9	8.7	11.4	-45.67	-487.1	-180.7	238.1	222.6	15.44	15.418		
3,800.0	3,783.7	3,792.2	3,747.2	8.9	11.7	-45.46	-502.6	-186.9	246.1	230.3	15.85	15.531		
3,900.0	3,883.2	3,891.8	3,845.4	9.2	12.1	-45.26	-518.2	-193.1	254.2	238.0	16.26	15.638		
4,000.0	3,982.8	3,991.5	3,943.7	9.4	12.4	-45.07	-533.7	-199.2	262.3	245.6	16.66	15.739		
4,100.0	4,082.3	4,091.2	4,041.9	9.6	12.7	-44.90	-549.3	-205.4	270.4	253.3	17.07	15.836		
4,200.0	4,181.8	4,190.8	4,140.2	9.9	13.1	-44.73	-564.8	-211.6	278.4	261.0	17.48	15.929		
4,300.0	4,281.3	4,290.5	4,238.4	10.1	13.4	-44.57	-580.4	-217.7	286.5	268.6	17.89	16.017		
4,400.0	4,380.9	4,390.2	4,336.7	10.4	13.8	-44.43	-595.9	-223.9	294.6	276.3	18.30	16.102		
4,500.0	4,480.4	4,489.8	4,434.9	10.6	14.1	-44.29	-611.5	-230.1	302.7	284.0	18.70	16.182		
4,600.0	4,579.9	4,589.5	4,533.2	10.9	14.4	-44.15	-627.1	-236.3	310.8	291.7	19.11	16.260		
4,700.0	4,679.4	4,689.2	4,631.5	11.1	14.8	-44.03	-642.6	-242.4	318.9	299.3	19.52	16.334		
4,800.0	4,778.9	4,788.9	4,729.7	11.3	15.1	-43.91	-658.2	-248.6	326.9	307.0	19.93	16.405		
4,900.0	4,878.5	4,888.5	4,828.0	11.6	15.5	-43.79	-673.7	-254.8	335.0	314.7	20.34	16.473		
5,000.0	4,978.0	4,988.2	4,926.2	11.8	15.8	-43.68	-689.3	-260.9	343.1	322.4	20.75	16.539		

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

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Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Chevron D05 696 Pad - Chevron 5-24D - 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							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	5,077.5	5,087.9	5,024.5	12.1	16.1	-43.58	-704.8	-267.1	351.2	330.1	21.16	16.602				
5,200.0	5,177.0	5,187.5	5,122.7	12.3	16.5	-43.48	-720.4	-273.3	359.3	337.8	21.56	16.663				
5,300.0	5,276.6	5,287.2	5,221.0	12.6	16.8	-43.39	-735.9	-279.5	367.4	345.4	21.97	16.721				
5,400.0	5,376.1	5,386.9	5,319.2	12.8	17.2	-43.30	-751.5	-285.6	375.5	353.1	22.38	16.778				
5,500.0	5,475.6	5,486.5	5,417.5	13.1	17.5	-43.21	-767.0	-291.8	383.6	360.8	22.79	16.832				
5,600.0	5,575.1	5,586.2	5,515.8	13.3	17.8	-43.13	-782.6	-298.0	391.7	368.5	23.20	16.884				
5,700.0	5,674.6	5,685.9	5,614.0	13.5	18.2	-43.05	-798.1	-304.1	399.8	376.2	23.61	16.935				
5,800.0	5,774.2	5,785.6	5,712.3	13.8	18.5	-42.97	-813.7	-310.3	407.9	383.9	24.02	16.984				
5,900.0	5,873.7	5,885.2	5,810.5	14.0	18.9	-42.90	-829.3	-316.5	416.0	391.6	24.43	17.031				
6,000.0	5,973.2	5,984.9	5,908.8	14.3	19.2	-42.82	-844.8	-322.6	424.1	399.3	24.83	17.077				
6,100.0	6,072.7	6,084.6	6,007.0	14.5	19.5	-42.76	-860.4	-328.8	432.2	407.0	25.24	17.121				
6,200.0	6,172.3	6,184.2	6,105.3	14.8	19.9	-42.69	-875.9	-335.0	440.3	414.7	25.65	17.164				
6,300.0	6,271.8	6,283.9	6,203.5	15.0	20.2	-42.63	-891.5	-341.2	448.4	422.3	26.06	17.206				
6,400.0	6,371.3	6,383.6	6,301.8	15.3	20.6	-42.57	-907.0	-347.3	456.5	430.0	26.47	17.246				
6,500.0	6,470.8	6,483.2	6,400.0	15.5	20.9	-42.51	-922.6	-353.5	464.6	437.7	26.88	17.285				
6,600.0	6,570.4	6,582.9	6,498.3	15.7	21.2	-42.45	-938.1	-359.7	472.7	445.4	27.29	17.323				
6,700.0	6,669.9	6,682.6	6,596.6	16.0	21.6	-42.40	-953.7	-365.8	480.8	453.1	27.70	17.360				
6,800.0	6,769.4	6,782.3	6,694.8	16.2	21.9	-42.34	-969.2	-372.0	488.9	460.8	28.11	17.395				
6,900.0	6,868.9	6,881.9	6,793.1	16.5	22.3	-42.29	-984.8	-378.2	497.0	468.5	28.52	17.430				
7,000.0	6,968.4	6,981.6	6,891.3	16.7	22.6	-42.24	-1,000.4	-384.3	505.1	476.2	28.93	17.464				
7,100.0	7,068.0	7,081.3	6,989.6	17.0	22.9	-42.19	-1,015.9	-390.5	513.2	483.9	29.33	17.496				
7,200.0	7,167.5	7,189.9	7,096.8	17.2	23.3	-42.17	-1,032.4	-397.1	521.0	491.2	29.76	17.504				
7,300.0	7,267.0	7,309.7	7,215.6	17.4	23.6	-42.33	-1,046.7	-402.7	525.4	495.2	30.24	17.376				
7,400.0	7,366.6	7,429.7	7,335.1	17.7	23.8	-42.68	-1,056.4	-406.6	526.5	495.8	30.73	17.133				
7,500.0	7,466.4	7,549.6	7,454.9	17.9	24.0	-42.97	-1,061.4	-408.6	526.0	494.9	31.14	16.891				
7,600.0	7,566.3	7,660.7	7,565.9	18.0	24.1	-43.14	-1,062.2	-408.9	524.7	493.2	31.47	16.672				
7,638.8	7,605.1	7,699.1	7,604.3	18.1	24.1	-46.64	-1,062.2	-409.0	524.5	492.9	31.59	16.605				
7,700.0	7,666.3	7,759.7	7,664.9	18.1	24.2	-63.65	-1,062.4	-409.2	524.7	493.0	31.76	16.522				
7,800.0	7,766.3	7,858.6	7,763.9	18.3	24.3	-63.62	-1,062.8	-410.0	524.8	492.8	32.06	16.369				
7,900.0	7,866.3	7,957.6	7,862.9	18.4	24.4	-63.59	-1,063.4	-411.0	525.0	492.6	32.38	16.215				
8,000.0	7,966.3	8,057.5	7,962.7	18.6	24.5	-63.57	-1,064.2	-412.4	525.0	492.3	32.70	16.057				
8,100.0	8,066.3	8,157.5	8,062.7	18.7	24.7	-63.57	-1,065.0	-413.7	525.0	492.0	33.02	15.899				
8,200.0	8,166.3	8,257.5	8,162.7	18.9	24.8	-63.57	-1,065.7	-415.1	525.0	491.7	33.35	15.744				
8,300.0	8,266.3	8,357.5	8,262.7	19.0	24.9	-63.57	-1,066.5	-416.4	525.0	491.4	33.67	15.592				
8,400.0	8,366.3	8,457.5	8,362.6	19.2	25.0	-63.57	-1,067.3	-417.8	525.0	491.0	34.00	15.443				
8,500.0	8,466.3	8,557.5	8,462.6	19.3	25.1	-63.57	-1,068.1	-419.1	525.0	490.7	34.33	15.296				
8,600.0	8,566.3	8,657.5	8,562.6	19.5	25.3	-63.57	-1,068.9	-420.5	525.0	490.4	34.65	15.152				
8,700.0	8,666.2	8,757.5	8,662.6	19.6	25.4	-63.57	-1,069.6	-421.8	525.0	490.1	34.98	15.010				
8,800.0	8,766.2	8,857.5	8,762.6	19.8	25.5	-63.57	-1,070.4	-423.1	525.0	489.7	35.31	14.870				
8,900.0	8,866.2	8,957.5	8,862.6	19.9	25.6	-63.57	-1,071.2	-424.5	525.0	489.4	35.64	14.733				
9,000.0	8,966.2	9,057.5	8,962.6	20.1	25.8	-63.57	-1,072.0	-425.8	525.0	489.1	35.96	14.598				
9,100.0	9,066.2	9,157.5	9,062.6	20.2	25.9	-63.57	-1,072.7	-427.2	525.0	488.7	36.29	14.466				
9,200.0	9,166.2	9,257.5	9,162.6	20.4	26.0	-63.58	-1,073.5	-428.5	525.0	488.4	36.62	14.336				
9,300.0	9,266.2	9,357.5	9,262.5	20.5	26.1	-63.58	-1,074.3	-429.9	525.0	488.1	36.95	14.208				
9,400.0	9,366.2	9,457.5	9,362.5	20.7	26.3	-63.58	-1,075.1	-431.2	525.0	487.7	37.28	14.082				
9,500.0	9,466.1	9,557.5	9,462.5	20.8	26.4	-63.58	-1,075.9	-432.6	525.0	487.4	37.61	13.958				
9,600.0	9,566.1	9,657.5	9,562.5	21.0	26.5	-63.58	-1,076.6	-433.9	525.0	487.1	37.95	13.836				
9,700.0	9,666.1	9,757.5	9,662.5	21.1	26.6	-63.58	-1,077.4	-435.3	525.0	486.7	38.28	13.716				
9,800.0	9,766.1	9,857.5	9,762.5	21.3	26.8	-63.58	-1,078.2	-436.6	525.0	486.4	38.61	13.598				
9,900.0	9,866.1	9,957.5	9,862.5	21.4	26.9	-63.58	-1,079.0	-438.0	525.0	486.1	38.94	13.482				
10,000.0	9,966.1	10,057.5	9,962.5	21.6	27.0	-63.58	-1,079.7	-439.3	525.0	485.7	39.28	13.368				
10,100.0	10,066.1	10,157.5	10,062.4	21.8	27.2	-63.58	-1,080.5	-440.6	525.0	485.4	39.61	13.255				

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 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 D05 696 Pad - Chevron 5-24D - 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		
10,200.0	10,166.1	10,257.5	10,162.4	21.9	27.3	-63.58	-1,081.3	-442.0	525.0	485.1	39.94	13.144		
10,300.0	10,266.0	10,357.5	10,262.4	22.1	27.4	-63.58	-1,082.1	-443.3	525.0	484.7	40.28	13.035		
10,305.0	10,271.1	10,362.5	10,267.4	22.1	27.4	-63.58	-1,082.1	-443.4	525.0	484.7	40.29	13.030		
10,378.0	10,344.0	10,369.0	10,274.0	22.2	27.4	-63.58	-1,082.2	-443.5	529.2	488.8	40.42	13.091		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 D05 696 Pad - Chevron 5-27D - DD - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-106.81	-13.1	-43.4	45.4					
100.0	100.0	100.0	100.0	0.1	0.1	-106.81	-13.1	-43.4	45.4	45.1	0.29	158.451		
200.0	200.0	200.0	200.0	0.3	0.3	-106.81	-13.1	-43.4	45.4	44.7	0.64	71.390		
300.0	300.0	300.0	300.0	0.5	0.5	35.05	-13.1	-43.4	43.9	42.9	0.99	44.568		
400.0	399.8	399.8	399.8	0.7	0.7	39.43	-13.1	-43.4	39.7	38.4	1.34	29.611		
500.0	499.5	499.5	499.5	0.9	0.8	48.92	-13.1	-43.4	33.5	31.8	1.72	19.471		
600.0	599.0	599.0	599.0	1.1	1.0	64.06	-13.1	-43.4	28.1	25.9	2.13	13.155		
700.0	698.5	698.5	698.5	1.4	1.2	84.22	-13.1	-43.4	25.3	22.8	2.56	9.882		
726.3	724.7	724.7	724.7	1.4	1.2	90.00	-13.1	-43.4	25.2	22.5	2.67	9.427 CC, ES		
800.0	798.0	798.0	798.0	1.6	1.4	105.85	-13.1	-43.4	26.2	23.3	2.96	8.857 SF		
900.0	897.6	897.6	897.6	1.9	1.5	123.79	-13.1	-43.4	30.4	27.1	3.30	9.212		
1,000.0	997.1	997.1	997.1	2.1	1.7	136.52	-13.1	-43.4	36.7	33.1	3.61	10.171		
1,100.0	1,096.6	1,096.3	1,096.2	2.3	1.9	143.15	-12.7	-45.0	44.7	40.7	3.94	11.340		
1,200.0	1,196.1	1,195.5	1,195.3	2.6	2.1	144.12	-11.2	-49.8	53.7	49.4	4.31	12.458		
1,300.0	1,295.6	1,294.7	1,294.2	2.8	2.3	142.06	-8.9	-57.6	63.5	58.8	4.72	13.449		
1,400.0	1,395.2	1,394.2	1,393.3	3.1	2.4	140.16	-6.5	-65.9	73.5	68.3	5.14	14.294		
1,500.0	1,494.7	1,493.7	1,492.4	3.3	2.7	138.71	-4.0	-74.3	83.5	77.9	5.56	15.015		
1,600.0	1,594.2	1,593.1	1,591.5	3.5	2.9	137.57	-1.5	-82.6	93.6	87.6	5.99	15.635		
1,700.0	1,693.7	1,692.6	1,690.6	3.8	3.1	136.66	0.9	-90.9	103.7	97.3	6.41	16.172		
1,800.0	1,793.3	1,792.1	1,789.7	4.0	3.3	135.90	3.4	-99.2	113.8	107.0	6.84	16.641		
1,900.0	1,892.8	1,891.6	1,888.8	4.3	3.5	135.27	5.9	-107.6	124.0	116.7	7.27	17.055		
2,000.0	1,992.3	1,991.0	1,987.9	4.5	3.7	134.74	8.3	-115.9	134.1	126.4	7.70	17.421		
2,100.0	2,091.8	2,090.5	2,087.0	4.8	3.9	134.28	10.8	-124.2	144.3	136.2	8.13	17.748		
2,200.0	2,191.3	2,190.0	2,186.1	5.0	4.2	133.88	13.2	-132.5	154.5	145.9	8.56	18.041		
2,300.0	2,290.9	2,289.5	2,285.2	5.3	4.4	133.53	15.7	-140.9	164.7	155.7	9.00	18.306		
2,400.0	2,390.4	2,388.9	2,384.3	5.5	4.6	133.22	18.2	-149.2	174.9	165.4	9.43	18.546		
2,500.0	2,489.9	2,488.4	2,483.4	5.7	4.8	132.95	20.6	-157.5	185.1	175.2	9.86	18.764		
2,600.0	2,589.4	2,587.9	2,582.5	6.0	5.0	132.70	23.1	-165.8	195.3	185.0	10.30	18.964		
2,700.0	2,689.0	2,687.4	2,681.6	6.2	5.3	132.48	25.5	-174.1	205.5	194.7	10.73	19.147		
2,800.0	2,788.5	2,786.8	2,780.7	6.5	5.5	132.28	28.0	-182.5	215.7	204.5	11.17	19.315		
2,900.0	2,888.0	2,886.3	2,879.8	6.7	5.7	132.10	30.5	-190.8	225.9	214.3	11.60	19.471		
3,000.0	2,987.5	2,985.8	2,978.9	7.0	5.9	131.93	32.9	-199.1	236.1	224.0	12.04	19.615		
3,100.0	3,087.1	3,085.3	3,077.9	7.2	6.2	131.78	35.4	-207.4	246.3	233.8	12.47	19.749		
3,200.0	3,186.6	3,184.7	3,177.0	7.4	6.4	131.63	37.9	-215.8	256.5	243.6	12.91	19.874		
3,300.0	3,286.1	3,284.2	3,276.1	7.7	6.6	131.50	40.3	-224.1	266.7	253.4	13.34	19.990		
3,400.0	3,385.6	3,383.7	3,375.2	7.9	6.8	131.38	42.8	-232.4	276.9	263.1	13.78	20.099		
3,500.0	3,485.1	3,483.2	3,474.3	8.2	7.1	131.27	45.2	-240.7	287.1	272.9	14.21	20.201		
3,600.0	3,584.7	3,582.6	3,573.4	8.4	7.3	131.17	47.7	-249.1	297.4	282.7	14.65	20.297		
3,700.0	3,684.2	3,682.1	3,672.5	8.7	7.5	131.07	50.2	-257.4	307.6	292.5	15.09	20.387		
3,800.0	3,783.7	3,781.6	3,771.6	8.9	7.8	130.98	52.6	-265.7	317.8	302.3	15.52	20.472		
3,900.0	3,883.2	3,881.1	3,870.7	9.2	8.0	130.89	55.1	-274.0	328.0	312.1	15.96	20.553		
4,000.0	3,982.8	3,980.5	3,969.8	9.4	8.2	130.81	57.5	-282.4	338.2	321.8	16.40	20.629		
4,100.0	4,082.3	4,080.0	4,068.9	9.6	8.4	130.74	60.0	-290.7	348.5	331.6	16.83	20.701		
4,200.0	4,181.8	4,179.5	4,168.0	9.9	8.7	130.67	62.5	-299.0	358.7	341.4	17.27	20.769		
4,300.0	4,281.3	4,279.0	4,267.1	10.1	8.9	130.60	64.9	-307.3	368.9	351.2	17.71	20.834		
4,400.0	4,380.9	4,378.4	4,366.2	10.4	9.1	130.54	67.4	-315.7	379.1	361.0	18.14	20.896		
4,500.0	4,480.4	4,477.9	4,465.3	10.6	9.4	130.48	69.9	-324.0	389.3	370.8	18.58	20.954		
4,600.0	4,579.9	4,577.4	4,564.4	10.9	9.6	130.42	72.3	-332.3	399.6	380.5	19.02	21.010		
4,700.0	4,679.4	4,676.9	4,663.5	11.1	9.8	130.37	74.8	-340.6	409.8	390.3	19.45	21.064		
4,800.0	4,778.9	4,776.3	4,762.6	11.3	10.0	130.31	77.2	-348.9	420.0	400.1	19.89	21.115		
4,900.0	4,878.5	4,875.8	4,861.7	11.6	10.3	130.26	79.7	-357.3	430.2	409.9	20.33	21.164		
5,000.0	4,978.0	4,975.3	4,960.8	11.8	10.5	130.22	82.2	-365.6	440.5	419.7	20.77	21.210		

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 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 D05 696 Pad - Chevron 5-27D - 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		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
5,100.0	5,077.5	5,074.8	5,059.9	12.1	10.7	130.17	84.6	-373.9	450.7	429.5	21.20	21.255			
5,200.0	5,177.0	5,174.2	5,159.0	12.3	11.0	130.13	87.1	-382.2	460.9	439.3	21.64	21.298			
5,300.0	5,276.6	5,273.7	5,258.1	12.6	11.2	130.09	89.5	-390.6	471.1	449.1	22.08	21.339			
5,400.0	5,376.1	5,373.2	5,357.2	12.8	11.4	130.05	92.0	-398.9	481.4	458.8	22.52	21.379			
5,500.0	5,475.6	5,472.7	5,456.3	13.1	11.6	130.01	94.5	-407.2	491.6	468.6	22.95	21.417			
5,600.0	5,575.1	5,572.1	5,555.3	13.3	11.9	129.98	96.9	-415.5	501.8	478.4	23.39	21.454			
5,700.0	5,674.6	5,671.6	5,654.4	13.5	12.1	129.94	99.4	-423.9	512.0	488.2	23.83	21.489			
5,800.0	5,774.2	5,771.1	5,753.5	13.8	12.3	129.91	101.9	-432.2	522.3	498.0	24.27	21.523			
5,900.0	5,873.7	5,870.6	5,852.6	14.0	12.6	129.88	104.3	-440.5	532.5	507.8	24.70	21.555			
6,000.0	5,973.2	5,970.1	5,951.7	14.3	12.8	129.85	106.8	-448.8	542.7	517.6	25.14	21.587			
6,100.0	6,072.7	6,069.5	6,050.8	14.5	13.0	129.82	109.2	-457.2	552.9	527.4	25.58	21.618			
6,200.0	6,172.3	6,169.0	6,149.9	14.8	13.3	129.79	111.7	-465.5	563.2	537.2	26.02	21.647			
6,300.0	6,271.8	6,268.5	6,249.0	15.0	13.5	129.76	114.2	-473.8	573.4	546.9	26.45	21.676			
6,400.0	6,371.3	6,378.0	6,358.2	15.3	13.7	129.91	116.3	-481.0	582.8	555.9	26.87	21.685			
6,500.0	6,470.8	6,487.7	6,467.9	15.5	13.9	130.42	117.2	-484.2	590.5	563.2	27.25	21.669			
6,600.0	6,570.4	6,590.8	6,571.0	15.7	14.0	131.13	117.2	-484.5	596.9	569.3	27.59	21.631			
6,700.0	6,669.9	6,691.3	6,671.5	16.0	14.2	131.79	117.0	-484.9	603.2	575.2	27.94	21.589			
6,800.0	6,769.4	6,791.5	6,771.8	16.2	14.3	132.39	116.5	-485.7	609.4	581.1	28.29	21.544			
6,900.0	6,868.9	6,891.2	6,871.4	16.5	14.5	132.97	116.0	-486.6	615.6	587.0	28.63	21.502			
7,000.0	6,968.4	6,990.8	6,971.0	16.7	14.6	133.54	115.5	-487.5	621.9	592.9	28.97	21.464			
7,100.0	7,068.0	7,090.4	7,070.6	17.0	14.8	134.10	114.9	-488.4	628.3	599.0	29.32	21.430			
7,200.0	7,167.5	7,190.0	7,170.2	17.2	14.9	134.65	114.4	-489.3	634.7	605.0	29.66	21.400			
7,300.0	7,267.0	7,289.6	7,269.8	17.4	15.1	135.18	113.9	-490.2	641.2	611.2	30.00	21.373			
7,400.0	7,366.6	7,389.3	7,369.4	17.7	15.2	135.72	113.4	-491.1	647.4	617.0	30.34	21.334			
7,500.0	7,466.4	7,489.1	7,469.3	17.9	15.4	136.07	112.9	-492.0	651.4	620.7	30.67	21.237			
7,600.0	7,566.3	7,589.1	7,569.3	18.0	15.5	136.18	112.4	-492.9	652.9	621.9	30.98	21.075			
7,700.0	7,666.3	7,689.1	7,669.3	18.1	15.7	115.59	111.9	-493.8	652.6	621.3	31.29	20.856			
7,800.0	7,766.3	7,789.1	7,769.2	18.3	15.9	115.55	111.3	-494.7	652.4	620.8	31.61	20.640			
7,864.3	7,830.6	7,853.4	7,833.5	18.4	16.0	115.54	111.0	-495.2	652.3	620.5	31.81	20.506			
7,900.0	7,866.3	7,889.1	7,869.2	18.4	16.0	115.55	110.8	-495.6	652.3	620.4	31.93	20.433			
8,000.0	7,966.3	7,989.1	7,969.2	18.6	16.2	115.57	110.3	-496.5	652.5	620.3	32.25	20.235			
8,100.0	8,066.3	8,089.1	8,069.2	18.7	16.3	115.62	109.8	-497.4	652.7	620.2	32.57	20.043			
8,200.0	8,166.3	8,189.1	8,169.2	18.9	16.5	115.66	109.3	-498.3	653.0	620.1	32.89	19.854			
8,300.0	8,266.3	8,289.1	8,269.2	19.0	16.6	115.70	108.8	-499.1	653.2	620.0	33.21	19.669			
8,400.0	8,366.3	8,389.1	8,369.2	19.2	16.8	115.74	108.2	-500.0	653.4	619.9	33.53	19.487			
8,500.0	8,466.3	8,489.1	8,469.2	19.3	17.0	115.78	107.7	-500.9	653.6	619.8	33.85	19.308			
8,600.0	8,566.3	8,589.1	8,569.2	19.5	17.1	115.82	107.2	-501.8	653.9	619.7	34.18	19.132			
8,700.0	8,666.2	8,689.1	8,669.2	19.6	17.3	115.86	106.7	-502.7	654.1	619.6	34.50	18.960			
8,800.0	8,766.2	8,789.1	8,769.2	19.8	17.4	115.90	106.2	-503.6	654.3	619.5	34.82	18.790			
8,900.0	8,866.2	8,889.1	8,869.2	19.9	17.6	115.95	105.6	-504.5	654.6	619.4	35.15	18.623			
9,000.0	8,966.2	8,989.1	8,969.2	20.1	17.7	115.99	105.1	-505.4	654.8	619.3	35.47	18.459			
9,100.0	9,066.2	9,089.1	9,069.2	20.2	17.9	116.03	104.6	-506.3	655.0	619.2	35.80	18.297			
9,200.0	9,166.2	9,189.1	9,169.2	20.4	18.1	116.07	104.1	-507.2	655.2	619.1	36.12	18.139			
9,300.0	9,266.2	9,289.1	9,269.1	20.5	18.2	116.11	103.6	-508.1	655.5	619.0	36.45	17.982			
9,400.0	9,366.2	9,389.1	9,369.1	20.7	18.4	116.15	103.1	-509.0	655.7	618.9	36.78	17.829			
9,500.0	9,466.1	9,489.1	9,469.1	20.8	18.6	116.19	102.5	-509.9	655.9	618.8	37.11	17.678			
9,600.0	9,566.1	9,589.1	9,569.1	21.0	18.7	116.23	102.0	-510.8	656.2	618.7	37.43	17.529			
9,700.0	9,666.1	9,689.1	9,669.1	21.1	18.9	116.27	101.5	-511.7	656.4	618.6	37.76	17.383			
9,800.0	9,766.1	9,789.1	9,769.1	21.3	19.0	116.31	101.0	-512.6	656.6	618.5	38.09	17.239			
9,900.0	9,866.1	9,889.1	9,869.1	21.4	19.2	116.36	100.5	-513.5	656.9	618.4	38.42	17.098			
10,000.0	9,966.1	9,989.1	9,969.1	21.6	19.4	116.40	100.0	-514.4	657.1	618.4	38.75	16.959			
10,100.0	10,066.1	10,089.1	10,069.1	21.8	19.5	116.44	99.4	-515.3	657.3	618.3	39.08	16.822			

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 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 D05 696 Pad - Chevron 5-27D - 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		
10,200.0	10,166.1	10,189.1	10,169.1	21.9	19.7	116.48	98.9	-516.2	657.6	618.2	39.41	16.687		
10,300.0	10,266.0	10,289.1	10,269.1	22.1	19.9	116.52	98.4	-517.1	657.8	618.1	39.74	16.554		
10,378.0	10,344.0	10,367.0	10,347.0	22.2	20.0	116.55	98.0	-517.8	658.0	618.0	39.99	16.452		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 D05 696 Pad - Chevron 5-28D - DD - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-106.75	-8.7	-29.0	30.3					
100.0	100.0	100.0	100.0	0.1	0.2	-106.75	-8.7	-29.0	30.3	30.0	0.29	103.426		
200.0	200.0	200.0	200.0	0.3	0.3	-106.75	-8.7	-29.0	30.3	29.7	0.64	47.216		
300.0	300.0	299.9	299.8	0.5	0.5	32.34	-10.5	-28.7	29.1	28.1	1.00	29.221		
400.0	399.8	399.6	399.4	0.7	0.7	27.05	-15.6	-27.8	25.5	24.2	1.37	18.682		
500.0	499.5	498.9	498.6	0.9	0.9	22.68	-21.7	-28.2	20.7	19.0	1.73	11.970		
600.0	599.0	598.4	597.9	1.1	1.1	26.51	-26.6	-31.8	17.1	15.0	2.10	8.175		
669.7	668.3	667.7	667.0	1.3	1.2	35.18	-29.1	-36.1	16.3	13.9	2.38	6.844 CC, ES		
700.0	698.5	698.0	697.2	1.4	1.3	40.15	-30.1	-38.4	16.4	13.9	2.52	6.536		
800.0	798.0	797.9	796.7	1.6	1.5	55.48	-33.1	-46.2	17.9	14.9	2.99	5.972		
900.0	897.6	897.8	896.2	1.9	1.7	67.83	-36.1	-54.1	20.3	16.9	3.48	5.841 SF		
1,000.0	997.1	997.6	995.8	2.1	1.9	77.17	-39.1	-61.9	23.5	19.6	3.97	5.932		
1,100.0	1,096.6	1,097.5	1,095.3	2.3	2.1	84.13	-42.2	-69.7	27.2	22.8	4.44	6.121		
1,200.0	1,196.1	1,197.4	1,194.8	2.6	2.4	89.39	-45.2	-77.5	31.2	26.3	4.91	6.344		
1,300.0	1,295.6	1,297.3	1,294.4	2.8	2.6	93.43	-48.2	-85.3	35.4	30.0	5.38	6.573		
1,400.0	1,395.2	1,397.2	1,393.9	3.1	2.8	96.61	-51.3	-93.1	39.7	33.8	5.84	6.792		
1,500.0	1,494.7	1,497.1	1,493.4	3.3	3.0	99.16	-54.3	-100.9	44.1	37.8	6.30	6.998		
1,600.0	1,594.2	1,597.0	1,593.0	3.5	3.2	101.24	-57.3	-108.7	48.6	41.8	6.76	7.187		
1,700.0	1,693.7	1,696.8	1,692.5	3.8	3.5	102.96	-60.3	-116.5	53.1	45.9	7.21	7.361		
1,800.0	1,793.3	1,796.7	1,792.0	4.0	3.7	104.42	-63.4	-124.4	57.7	50.0	7.67	7.520		
1,900.0	1,892.8	1,896.6	1,891.6	4.3	3.9	105.66	-66.4	-132.2	62.3	54.2	8.13	7.666		
2,000.0	1,992.3	1,996.5	1,991.1	4.5	4.1	106.72	-69.4	-140.0	66.9	58.3	8.58	7.799		
2,100.0	2,091.8	2,096.4	2,090.6	4.8	4.4	107.65	-72.5	-147.8	71.6	62.5	9.04	7.921		
2,200.0	2,191.3	2,196.3	2,190.2	5.0	4.6	108.47	-75.5	-155.6	76.3	66.8	9.49	8.033		
2,300.0	2,290.9	2,296.1	2,289.7	5.3	4.8	109.19	-78.5	-163.4	80.9	71.0	9.95	8.137		
2,400.0	2,390.4	2,396.0	2,389.2	5.5	5.0	109.83	-81.5	-171.2	85.6	75.2	10.40	8.232		
2,500.0	2,489.9	2,495.9	2,488.8	5.7	5.3	110.41	-84.6	-179.0	90.3	79.5	10.86	8.321		
2,600.0	2,589.4	2,595.8	2,588.3	6.0	5.5	110.93	-87.6	-186.8	95.1	83.7	11.31	8.403		
2,700.0	2,689.0	2,695.7	2,687.8	6.2	5.7	111.40	-90.6	-194.7	99.8	88.0	11.77	8.479		
2,800.0	2,788.5	2,795.6	2,787.4	6.5	6.0	111.82	-93.6	-202.5	104.5	92.3	12.22	8.550		
2,900.0	2,888.0	2,895.5	2,886.9	6.7	6.2	112.21	-96.7	-210.3	109.2	96.6	12.68	8.617		
3,000.0	2,987.5	2,995.3	2,986.4	7.0	6.4	112.57	-99.7	-218.1	114.0	100.8	13.13	8.679		
3,100.0	3,087.1	3,095.2	3,086.0	7.2	6.6	112.90	-102.7	-225.9	118.7	105.1	13.59	8.737		
3,200.0	3,186.6	3,195.1	3,185.5	7.4	6.9	113.20	-105.8	-233.7	123.5	109.4	14.04	8.792		
3,300.0	3,286.1	3,295.0	3,285.0	7.7	7.1	113.49	-108.8	-241.5	128.2	113.7	14.50	8.844		
3,400.0	3,385.6	3,394.9	3,384.6	7.9	7.3	113.75	-111.8	-249.3	133.0	118.0	14.95	8.892		
3,500.0	3,485.1	3,494.8	3,484.1	8.2	7.5	113.99	-114.8	-257.2	137.7	122.3	15.41	8.938		
3,600.0	3,584.7	3,594.7	3,583.6	8.4	7.8	114.22	-117.9	-265.0	142.5	126.6	15.86	8.982		
3,700.0	3,684.2	3,694.5	3,683.2	8.7	8.0	114.43	-120.9	-272.8	147.2	130.9	16.32	9.023		
3,800.0	3,783.7	3,794.4	3,782.7	8.9	8.2	114.63	-123.9	-280.6	152.0	135.2	16.77	9.062		
3,900.0	3,883.2	3,894.3	3,882.2	9.2	8.5	114.82	-127.0	-288.4	156.8	139.5	17.23	9.099		
4,000.0	3,982.8	3,994.2	3,981.8	9.4	8.7	114.99	-130.0	-296.2	161.5	143.8	17.68	9.134		
4,100.0	4,082.3	4,094.1	4,081.3	9.6	8.9	115.16	-133.0	-304.0	166.3	148.2	18.14	9.167		
4,200.0	4,181.8	4,194.0	4,180.8	9.9	9.1	115.31	-136.0	-311.8	171.1	152.5	18.59	9.199		
4,300.0	4,281.3	4,293.9	4,280.4	10.1	9.4	115.46	-139.1	-319.6	175.8	156.8	19.05	9.230		
4,400.0	4,380.9	4,393.7	4,379.9	10.4	9.6	115.60	-142.1	-327.5	180.6	161.1	19.51	9.259		
4,500.0	4,480.4	4,493.6	4,479.4	10.6	9.8	115.74	-145.1	-335.3	185.4	165.4	19.96	9.287		
4,600.0	4,579.9	4,593.5	4,579.0	10.9	10.0	115.86	-148.2	-343.1	190.1	169.7	20.42	9.313		
4,700.0	4,679.4	4,693.4	4,678.5	11.1	10.3	115.98	-151.2	-350.9	194.9	174.0	20.87	9.339		
4,800.0	4,778.9	4,793.3	4,778.0	11.3	10.5	116.10	-154.2	-358.7	199.7	178.4	21.33	9.363		
4,900.0	4,878.5	4,893.2	4,877.6	11.6	10.7	116.21	-157.2	-366.5	204.4	182.7	21.78	9.386		
5,000.0	4,978.0	4,993.1	4,977.1	11.8	11.0	116.31	-160.3	-374.3	209.2	187.0	22.24	9.409		

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 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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
Chevron D05 696 Pad - Chevron 5-28D - DD - Plan #4													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,077.5	5,092.9	5,076.6	12.1	11.2	116.41	-163.3	-382.1	214.0	191.3	22.69	9.431	
5,200.0	5,177.0	5,192.8	5,176.2	12.3	11.4	116.50	-166.3	-389.9	218.8	195.6	23.15	9.451	
5,300.0	5,276.6	5,292.7	5,275.7	12.6	11.6	116.60	-169.4	-397.8	223.5	199.9	23.60	9.471	
5,400.0	5,376.1	5,392.6	5,375.2	12.8	11.9	116.68	-172.4	-405.6	228.3	204.3	24.06	9.491	
5,500.0	5,475.6	5,492.5	5,474.8	13.1	12.1	116.77	-175.4	-413.4	233.1	208.6	24.51	9.509	
5,600.0	5,575.1	5,592.4	5,574.3	13.3	12.3	116.85	-178.4	-421.2	237.9	212.9	24.97	9.527	
5,700.0	5,674.6	5,692.2	5,673.8	13.5	12.5	116.92	-181.5	-429.0	242.7	217.2	25.42	9.544	
5,800.0	5,774.2	5,792.1	5,773.4	13.8	12.8	117.00	-184.5	-436.8	247.4	221.6	25.88	9.561	
5,900.0	5,873.7	5,892.0	5,872.9	14.0	13.0	117.07	-187.5	-444.6	252.2	225.9	26.33	9.577	
6,000.0	5,973.2	5,991.9	5,972.4	14.3	13.2	117.14	-190.6	-452.4	257.0	230.2	26.79	9.593	
6,100.0	6,072.7	6,091.8	6,072.0	14.5	13.5	117.20	-193.6	-460.2	261.8	234.5	27.25	9.608	
6,200.0	6,172.3	6,191.7	6,171.5	14.8	13.7	117.27	-196.6	-468.1	266.6	238.8	27.70	9.622	
6,300.0	6,271.8	6,291.6	6,271.1	15.0	13.9	117.33	-199.6	-475.8	271.3	243.2	28.16	9.637	
6,400.0	6,371.3	6,391.7	6,371.0	15.3	14.1	117.84	-201.9	-481.7	276.0	247.5	28.55	9.671	
6,500.0	6,470.8	6,491.6	6,470.8	15.5	14.2	119.04	-202.9	-484.3	280.8	251.9	28.86	9.730	
6,600.0	6,570.4	6,591.3	6,570.5	15.7	14.4	120.70	-203.0	-484.5	285.6	256.5	29.12	9.807	
6,700.0	6,669.9	6,691.1	6,670.3	16.0	14.5	122.25	-203.3	-484.9	290.6	261.2	29.39	9.888	
6,800.0	6,769.4	6,790.9	6,770.1	16.2	14.7	123.67	-203.7	-485.7	295.7	266.1	29.66	9.970	
6,900.0	6,868.9	6,890.5	6,869.7	16.5	14.8	125.02	-204.2	-486.6	301.0	271.1	29.93	10.057	
7,000.0	6,968.4	6,990.1	6,969.3	16.7	15.0	126.33	-204.7	-487.5	306.5	276.3	30.20	10.148	
7,100.0	7,068.0	7,089.7	7,068.9	17.0	15.1	127.59	-205.3	-488.4	312.1	281.6	30.46	10.244	
7,200.0	7,167.5	7,189.3	7,168.5	17.2	15.3	128.80	-205.8	-489.3	317.8	287.1	30.72	10.344	
7,300.0	7,267.0	7,288.9	7,268.1	17.4	15.4	129.97	-206.3	-490.2	323.7	292.7	30.98	10.446	
7,400.0	7,366.6	7,388.6	7,367.8	17.7	15.6	131.08	-206.8	-491.1	329.4	298.1	31.24	10.542	
7,500.0	7,466.4	7,488.4	7,467.6	17.9	15.8	131.78	-207.3	-492.0	333.1	301.6	31.51	10.572	
7,600.0	7,566.3	7,588.4	7,567.6	18.0	15.9	131.98	-207.8	-492.8	334.5	302.8	31.79	10.524	
7,700.0	7,666.3	7,688.4	7,667.6	18.1	16.1	111.33	-208.3	-493.7	334.3	302.2	32.10	10.414	
7,800.0	7,766.3	7,788.4	7,767.6	18.3	16.2	111.25	-208.8	-494.6	334.1	301.7	32.42	10.307	
7,862.1	7,828.4	7,850.5	7,829.7	18.4	16.3	111.23	-209.2	-495.2	334.1	301.5	32.61	10.244	
7,900.0	7,866.3	7,888.4	7,867.6	18.4	16.4	111.24	-209.4	-495.5	334.1	301.4	32.73	10.208	
8,000.0	7,966.3	7,988.4	7,967.6	18.6	16.5	111.30	-209.9	-496.4	334.2	301.2	33.04	10.115	
8,100.0	8,066.3	8,088.4	8,067.6	18.7	16.7	111.38	-210.4	-497.3	334.4	301.1	33.35	10.028	
8,200.0	8,166.3	8,188.4	8,167.6	18.9	16.8	111.47	-210.9	-498.2	334.6	301.0	33.66	9.941	
8,300.0	8,266.3	8,288.4	8,267.5	19.0	17.0	111.55	-211.4	-499.1	334.8	300.9	33.97	9.856	
8,400.0	8,366.3	8,388.4	8,367.5	19.2	17.2	111.64	-211.9	-500.0	335.0	300.7	34.28	9.772	
8,500.0	8,466.3	8,488.4	8,467.5	19.3	17.3	111.72	-212.4	-500.9	335.2	300.6	34.59	9.690	
8,600.0	8,566.3	8,588.4	8,567.5	19.5	17.5	111.80	-212.9	-501.7	335.4	300.5	34.91	9.609	
8,700.0	8,666.2	8,688.4	8,667.5	19.6	17.6	111.89	-213.5	-502.6	335.6	300.4	35.22	9.529	
8,800.0	8,766.2	8,788.4	8,767.5	19.8	17.8	111.97	-214.0	-503.5	335.8	300.3	35.53	9.450	
8,900.0	8,866.2	8,888.4	8,867.5	19.9	18.0	112.05	-214.5	-504.4	336.0	300.2	35.85	9.373	
9,000.0	8,966.2	8,988.4	8,967.5	20.1	18.1	112.14	-215.0	-505.3	336.2	300.0	36.16	9.297	
9,100.0	9,066.2	9,088.4	9,067.5	20.2	18.3	112.22	-215.5	-506.2	336.4	299.9	36.48	9.222	
9,200.0	9,166.2	9,188.4	9,167.5	20.4	18.4	112.30	-216.0	-507.1	336.6	299.8	36.80	9.148	
9,300.0	9,266.2	9,288.4	9,267.5	20.5	18.6	112.39	-216.5	-508.0	336.8	299.7	37.11	9.075	
9,400.0	9,366.2	9,388.4	9,367.5	20.7	18.8	112.47	-217.0	-508.9	337.0	299.6	37.43	9.004	
9,500.0	9,466.1	9,488.4	9,467.5	20.8	18.9	112.55	-217.6	-509.8	337.2	299.5	37.75	8.933	
9,600.0	9,566.1	9,588.4	9,567.5	21.0	19.1	112.64	-218.1	-510.6	337.4	299.4	38.07	8.864	
9,700.0	9,666.1	9,688.4	9,667.5	21.1	19.2	112.72	-218.6	-511.5	337.6	299.2	38.39	8.796	
9,800.0	9,766.1	9,788.4	9,767.4	21.3	19.4	112.80	-219.1	-512.4	337.8	299.1	38.71	8.728	
9,900.0	9,866.1	9,888.4	9,867.4	21.4	19.6	112.88	-219.6	-513.3	338.0	299.0	39.03	8.662	
10,000.0	9,966.1	9,988.4	9,967.4	21.6	19.7	112.97	-220.1	-514.2	338.3	298.9	39.35	8.597	
10,100.0	10,066.1	10,088.4	10,067.4	21.8	19.9	113.05	-220.6	-515.1	338.5	298.8	39.67	8.533	

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 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 D05 696 Pad - Chevron 5-28D - DD - Plan #4													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		
10,200.0	10,166.1	10,188.4	10,167.4	21.9	20.1	113.13	-221.1	-516.0	338.7	298.7	39.99	8.469		
10,300.0	10,266.0	10,288.4	10,267.4	22.1	20.2	113.21	-221.7	-516.9	338.9	298.6	40.31	8.407		
10,378.0	10,344.0	10,366.4	10,345.4	22.2	20.3	113.28	-222.1	-517.6	339.0	298.5	40.56	8.359		

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	Local Co-ordinate Reference:	Well Chevron 5-26D
Project:	Garfield County	TVD Reference:	KBE @ 8160.0ft (Original Well Elev)
Reference Site:	Chevron D05 696 Pad	MD Reference:	KBE @ 8160.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Chevron 5-26D	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 @ 8160.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: Chevron 5-26D
 Coordinate System is US State Plane 1983, Colorado Central Zone
 Grid Convergence at Surface is: -1.66°

