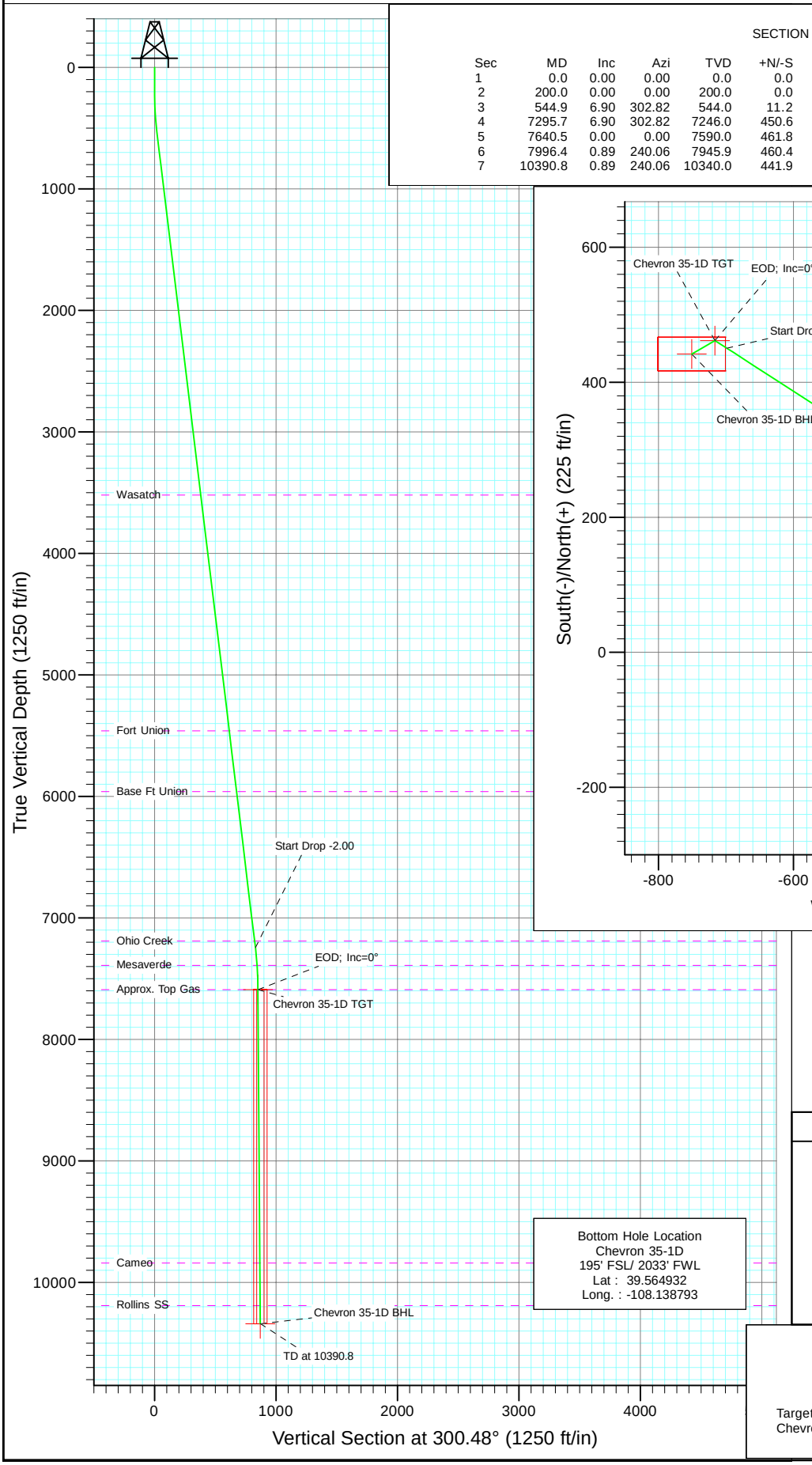
Berry Petroleum Company

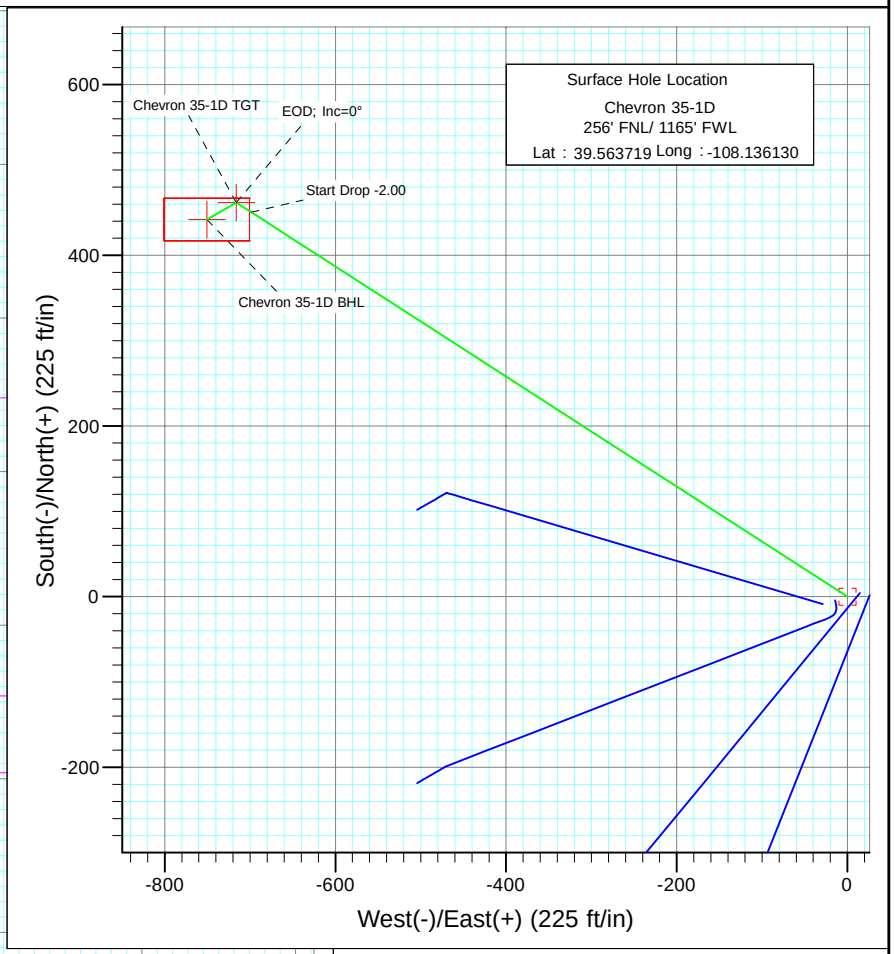
Project: Garfield County
Site: Chevron D05 696 Pad
Well: Chevron 35-1D
Wellbore: DD
Design: Plan #4

CATHEDRAL

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	544.9	6.90	302.82	544.0	11.2	-17.4	2.00	302.82	20.7	
4	7295.7	6.90	302.82	7246.0	450.6	-698.7	0.00	0.00	830.7	
5	7640.5	0.00	0.00	7590.0	461.8	-716.1	2.00	180.00	851.4	Chevron 35-1D TGT
6	7996.4	0.89	240.06	7945.9	460.4	-718.5	0.25	240.06	852.8	
7	10390.8	0.89	240.06	10340.0	441.9	-750.8	0.00	0.00	871.1	Chevron 35-1D BHL





Azimuths to True North
Magnetic North: 10.73°

Magnetic Field
Strength: 52533.2snT
Dip Angle: 65.85°
Date: 11/24/2008
Model: IGRF200510

Bottom Hole Location
Chevron 35-1D
195' FSL/ 2033' FWL
Lat : 39.564932
Long. : -108.138793

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3520.0	3542.5	Wasatch
5460.0	5496.7	Fort Union
5960.0	6000.3	Base Ft Union
7190.0	7239.3	Ohio Creek
7390.0	7440.4	Mesaverde
7590.0	7640.5	Approx. Top Gas
9840.0	9890.8	Cameo
10190.0	10240.8	Rollins SS

DESIGN DETAILS: Plan #4

95XXX; BH
KBE @ 8160.0ft (Original Well Elev)

Target	Azimuth	Origin	N/S	E/W	From TVD
Chevron 35-1D BHL	300.48	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 35-1D
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 35-1D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

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 35-1D

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,640,998.46 ft	**Latitude:**	39.563719
	+E/-W	0.0 ft	**Easting:**	2,256,907.43 ft	**Longitude:**	-108.136130
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 #4

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	300.48

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
544.9	6.90	302.82	544.0	11.2	-17.4	2.00	2.00	0.00	302.82	
7,295.7	6.90	302.82	7,246.0	450.6	-698.7	0.00	0.00	0.00	0.00	
7,640.5	0.00	0.00	7,590.0	461.8	-716.1	2.00	-2.00	0.00	180.00	Chevron 35-1D TGT
7,996.4	0.89	240.06	7,945.9	460.4	-718.5	0.25	0.25	-33.70	240.06	
10,390.8	0.89	240.06	10,340.0	441.9	-750.8	0.00	0.00	0.00	0.00	Chevron 35-1D BHL

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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Project:	Garfield County	**MD Reference:**	KBE @ 8160.0ft (Original Well Elev)
Site:	Chevron D05 696 Pad	**North Reference:**	True
Well:	Chevron 35-1D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
30.0	0.00	0.00	30.0	0.0	0.0	0.0	0.00	0.00	
60.0	0.00	0.00	60.0	0.0	0.0	0.0	0.00	0.00	
90.0	0.00	0.00	90.0	0.0	0.0	0.0	0.00	0.00	
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	
180.0	0.00	0.00	180.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200' MD
210.0	0.20	302.82	210.0	0.0	0.0	0.0	2.00	2.00	
240.0	0.80	302.82	240.0	0.2	-0.2	0.3	2.00	2.00	
270.0	1.40	302.82	270.0	0.5	-0.7	0.9	2.00	2.00	
300.0	2.00	302.82	300.0	0.9	-1.5	1.7	2.00	2.00	
330.0	2.60	302.82	330.0	1.6	-2.5	2.9	2.00	2.00	
360.0	3.20	302.82	359.9	2.4	-3.8	4.5	2.00	2.00	
390.0	3.80	302.82	389.9	3.4	-5.3	6.3	2.00	2.00	
420.0	4.40	302.82	419.8	4.6	-7.1	8.4	2.00	2.00	
450.0	5.00	302.82	449.7	5.9	-9.2	10.9	2.00	2.00	
480.0	5.60	302.82	479.6	7.4	-11.5	13.7	2.00	2.00	
510.0	6.20	302.82	509.4	9.1	-14.1	16.7	2.00	2.00	
540.0	6.80	302.82	539.2	10.9	-16.9	20.1	2.00	2.00	
544.9	6.90	302.82	544.0	11.2	-17.4	20.7	2.00	2.00	EOB; Inc=6.9°
570.0	6.90	302.82	569.0	12.9	-20.0	23.7	0.00	0.00	
600.0	6.90	302.82	598.8	14.8	-23.0	27.3	0.00	0.00	
630.0	6.90	302.82	628.6	16.8	-26.0	30.9	0.00	0.00	
660.0	6.90	302.82	658.3	18.7	-29.0	34.5	0.00	0.00	
690.0	6.90	302.82	688.1	20.7	-32.1	38.1	0.00	0.00	
720.0	6.90	302.82	717.9	22.6	-35.1	41.7	0.00	0.00	
750.0	6.90	302.82	747.7	24.6	-38.1	45.3	0.00	0.00	
780.0	6.90	302.82	777.5	26.5	-41.2	48.9	0.00	0.00	
810.0	6.90	302.82	807.2	28.5	-44.2	52.5	0.00	0.00	
840.0	6.90	302.82	837.0	30.4	-47.2	56.1	0.00	0.00	
870.0	6.90	302.82	866.8	32.4	-50.2	59.7	0.00	0.00	
900.0	6.90	302.82	896.6	34.3	-53.3	63.3	0.00	0.00	
930.0	6.90	302.82	926.4	36.3	-56.3	66.9	0.00	0.00	
960.0	6.90	302.82	956.2	38.3	-59.3	70.5	0.00	0.00	
990.0	6.90	302.82	985.9	40.2	-62.3	74.1	0.00	0.00	
1,020.0	6.90	302.82	1,015.7	42.2	-65.4	77.7	0.00	0.00	
1,050.0	6.90	302.82	1,045.5	44.1	-68.4	81.3	0.00	0.00	
1,080.0	6.90	302.82	1,075.3	46.1	-71.4	84.9	0.00	0.00	
1,110.0	6.90	302.82	1,105.1	48.0	-74.5	88.5	0.00	0.00	
1,140.0	6.90	302.82	1,134.9	50.0	-77.5	92.1	0.00	0.00	
1,170.0	6.90	302.82	1,164.6	51.9	-80.5	95.7	0.00	0.00	
1,200.0	6.90	302.82	1,194.4	53.9	-83.5	99.3	0.00	0.00	
1,230.0	6.90	302.82	1,224.2	55.8	-86.6	102.9	0.00	0.00	
1,260.0	6.90	302.82	1,254.0	57.8	-89.6	106.5	0.00	0.00	
1,290.0	6.90	302.82	1,283.8	59.7	-92.6	110.1	0.00	0.00	
1,320.0	6.90	302.82	1,313.6	61.7	-95.7	113.7	0.00	0.00	
1,350.0	6.90	302.82	1,343.3	63.6	-98.7	117.3	0.00	0.00	
1,380.0	6.90	302.82	1,373.1	65.6	-101.7	120.9	0.00	0.00	
1,410.0	6.90	302.82	1,402.9	67.5	-104.7	124.5	0.00	0.00	
1,440.0	6.90	302.82	1,432.7	69.5	-107.8	128.1	0.00	0.00	
1,470.0	6.90	302.82	1,462.5	71.4	-110.8	131.7	0.00	0.00	

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Well:	Chevron 35-1D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

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	6.90	302.82	1,492.3	73.4	-113.8	135.3	0.00	0.00	
1,530.0	6.90	302.82	1,522.0	75.3	-116.8	138.9	0.00	0.00	
1,560.0	6.90	302.82	1,551.8	77.3	-119.9	142.5	0.00	0.00	
1,590.0	6.90	302.82	1,581.6	79.3	-122.9	146.1	0.00	0.00	
1,620.0	6.90	302.82	1,611.4	81.2	-125.9	149.7	0.00	0.00	
1,650.0	6.90	302.82	1,641.2	83.2	-129.0	153.3	0.00	0.00	
1,680.0	6.90	302.82	1,671.0	85.1	-132.0	156.9	0.00	0.00	
1,710.0	6.90	302.82	1,700.7	87.1	-135.0	160.5	0.00	0.00	
1,740.0	6.90	302.82	1,730.5	89.0	-138.0	164.1	0.00	0.00	
1,770.0	6.90	302.82	1,760.3	91.0	-141.1	167.7	0.00	0.00	
1,800.0	6.90	302.82	1,790.1	92.9	-144.1	171.3	0.00	0.00	
1,830.0	6.90	302.82	1,819.9	94.9	-147.1	174.9	0.00	0.00	
1,860.0	6.90	302.82	1,849.7	96.8	-150.1	178.5	0.00	0.00	
1,890.0	6.90	302.82	1,879.4	98.8	-153.2	182.1	0.00	0.00	
1,920.0	6.90	302.82	1,909.2	100.7	-156.2	185.7	0.00	0.00	
1,950.0	6.90	302.82	1,939.0	102.7	-159.2	189.3	0.00	0.00	
1,980.0	6.90	302.82	1,968.8	104.6	-162.3	192.9	0.00	0.00	
2,010.0	6.90	302.82	1,998.6	106.6	-165.3	196.5	0.00	0.00	
2,040.0	6.90	302.82	2,028.3	108.5	-168.3	200.1	0.00	0.00	
2,070.0	6.90	302.82	2,058.1	110.5	-171.3	203.7	0.00	0.00	
2,100.0	6.90	302.82	2,087.9	112.4	-174.4	207.3	0.00	0.00	
2,130.0	6.90	302.82	2,117.7	114.4	-177.4	210.9	0.00	0.00	
2,160.0	6.90	302.82	2,147.5	116.3	-180.4	214.5	0.00	0.00	
2,190.0	6.90	302.82	2,177.3	118.3	-183.5	218.1	0.00	0.00	
2,220.0	6.90	302.82	2,207.0	120.3	-186.5	221.7	0.00	0.00	
2,250.0	6.90	302.82	2,236.8	122.2	-189.5	225.3	0.00	0.00	
2,280.0	6.90	302.82	2,266.6	124.2	-192.5	228.9	0.00	0.00	
2,310.0	6.90	302.82	2,296.4	126.1	-195.6	232.5	0.00	0.00	
2,340.0	6.90	302.82	2,326.2	128.1	-198.6	236.1	0.00	0.00	
2,370.0	6.90	302.82	2,356.0	130.0	-201.6	239.7	0.00	0.00	
2,400.0	6.90	302.82	2,385.7	132.0	-204.6	243.3	0.00	0.00	
2,430.0	6.90	302.82	2,415.5	133.9	-207.7	246.9	0.00	0.00	
2,460.0	6.90	302.82	2,445.3	135.9	-210.7	250.5	0.00	0.00	
2,490.0	6.90	302.82	2,475.1	137.8	-213.7	254.1	0.00	0.00	

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Chevron 35-1D BHL	0.00	0.00	10,340.0	441.9	-750.8	1,641,461.92	2,256,169.80	39.564932	-108.138793
- plan misses target center by 7889.1ft at 2490.0ft MD (2475.1 TVD, 137.8 N, -213.7 E)									
- Rectangle (sides W50.0 H100.0 D0.0)									
Chevron 35-1D TGT	0.00	0.00	7,590.0	461.8	-716.1	1,641,480.84	2,256,204.98	39.564987	-108.138670
- plan misses target center by 5149.7ft at 2490.0ft MD (2475.1 TVD, 137.8 N, -213.7 E)									
- Point									

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Well:	Chevron 35-1D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

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	6.90	302.82	2,485.0	138.5	-214.7	255.3	0.00	0.00	
2,600.0	6.90	302.82	2,584.3	145.0	-224.8	267.3	0.00	0.00	
2,700.0	6.90	302.82	2,683.6	151.5	-234.9	279.3	0.00	0.00	
2,800.0	6.90	302.82	2,782.8	158.0	-245.0	291.3	0.00	0.00	
2,900.0	6.90	302.82	2,882.1	164.5	-255.1	303.3	0.00	0.00	
3,000.0	6.90	302.82	2,981.4	171.0	-265.2	315.3	0.00	0.00	
3,100.0	6.90	302.82	3,080.7	177.5	-275.3	327.3	0.00	0.00	
3,200.0	6.90	302.82	3,180.0	184.0	-285.4	339.3	0.00	0.00	
3,300.0	6.90	302.82	3,279.2	190.5	-295.5	351.3	0.00	0.00	
3,400.0	6.90	302.82	3,378.5	197.0	-305.6	363.3	0.00	0.00	
3,500.0	6.90	302.82	3,477.8	203.6	-315.7	375.3	0.00	0.00	
3,542.5	6.90	302.82	3,520.0	206.3	-320.0	380.4	0.00	0.00	Wasatch
3,600.0	6.90	302.82	3,577.1	210.1	-325.8	387.3	0.00	0.00	
3,700.0	6.90	302.82	3,676.3	216.6	-335.8	399.3	0.00	0.00	
3,800.0	6.90	302.82	3,775.6	223.1	-345.9	411.3	0.00	0.00	
3,900.0	6.90	302.82	3,874.9	229.6	-356.0	423.3	0.00	0.00	
4,000.0	6.90	302.82	3,974.2	236.1	-366.1	435.3	0.00	0.00	
4,100.0	6.90	302.82	4,073.4	242.6	-376.2	447.3	0.00	0.00	
4,200.0	6.90	302.82	4,172.7	249.1	-386.3	459.3	0.00	0.00	
4,300.0	6.90	302.82	4,272.0	255.6	-396.4	471.3	0.00	0.00	
4,400.0	6.90	302.82	4,371.3	262.1	-406.5	483.3	0.00	0.00	
4,500.0	6.90	302.82	4,470.5	268.6	-416.6	495.3	0.00	0.00	
4,600.0	6.90	302.82	4,569.8	275.1	-426.7	507.3	0.00	0.00	
4,700.0	6.90	302.82	4,669.1	281.6	-436.8	519.3	0.00	0.00	
4,800.0	6.90	302.82	4,768.4	288.2	-446.9	531.3	0.00	0.00	
4,900.0	6.90	302.82	4,867.7	294.7	-457.0	543.3	0.00	0.00	
5,000.0	6.90	302.82	4,966.9	301.2	-467.0	555.3	0.00	0.00	
5,100.0	6.90	302.82	5,066.2	307.7	-477.1	567.3	0.00	0.00	
5,200.0	6.90	302.82	5,165.5	314.2	-487.2	579.3	0.00	0.00	
5,300.0	6.90	302.82	5,264.8	320.7	-497.3	591.3	0.00	0.00	
5,400.0	6.90	302.82	5,364.0	327.2	-507.4	603.3	0.00	0.00	
5,496.7	6.90	302.82	5,460.0	333.5	-517.2	614.9	0.00	0.00	Fort Union
5,500.0	6.90	302.82	5,463.3	333.7	-517.5	615.3	0.00	0.00	
5,600.0	6.90	302.82	5,562.6	340.2	-527.6	627.3	0.00	0.00	
5,700.0	6.90	302.82	5,661.9	346.7	-537.7	639.3	0.00	0.00	
5,800.0	6.90	302.82	5,761.1	353.2	-547.8	651.3	0.00	0.00	
5,900.0	6.90	302.82	5,860.4	359.7	-557.9	663.3	0.00	0.00	
6,000.0	6.90	302.82	5,959.7	366.2	-568.0	675.3	0.00	0.00	
6,000.3	6.90	302.82	5,960.0	366.3	-568.0	675.3	0.00	0.00	Base Ft Union
6,100.0	6.90	302.82	6,059.0	372.8	-578.1	687.2	0.00	0.00	
6,200.0	6.90	302.82	6,158.2	379.3	-588.2	699.2	0.00	0.00	
6,300.0	6.90	302.82	6,257.5	385.8	-598.2	711.2	0.00	0.00	
6,400.0	6.90	302.82	6,356.8	392.3	-608.3	723.2	0.00	0.00	
6,500.0	6.90	302.82	6,456.1	398.8	-618.4	735.2	0.00	0.00	
6,600.0	6.90	302.82	6,555.4	405.3	-628.5	747.2	0.00	0.00	
6,700.0	6.90	302.82	6,654.6	411.8	-638.6	759.2	0.00	0.00	
6,800.0	6.90	302.82	6,753.9	418.3	-648.7	771.2	0.00	0.00	
6,900.0	6.90	302.82	6,853.2	424.8	-658.8	783.2	0.00	0.00	
7,000.0	6.90	302.82	6,952.5	431.3	-668.9	795.2	0.00	0.00	
7,100.0	6.90	302.82	7,051.7	437.8	-679.0	807.2	0.00	0.00	
7,200.0	6.90	302.82	7,151.0	444.3	-689.1	819.2	0.00	0.00	
7,239.3	6.90	302.82	7,190.0	446.9	-693.0	823.9	0.00	0.00	Ohio Creek

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

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
7,295.7	6.90	302.82	7,246.0	450.6	-698.7	830.7	0.00	0.00	Start Drop -2.00
7,300.0	6.81	302.82	7,250.3	450.8	-699.2	831.2	2.00	-2.00	
7,400.0	4.81	302.82	7,349.8	456.3	-707.7	841.3	2.00	-2.00	
7,440.4	4.00	302.82	7,390.0	458.0	-710.3	844.4	2.00	-2.00	Mesaverde
7,500.0	2.81	302.82	7,449.5	459.9	-713.3	848.0	2.00	-2.00	
7,600.0	0.81	302.82	7,549.5	461.6	-715.9	851.1	2.00	-2.00	
7,640.5	0.00	0.00	7,590.0	461.8	-716.1	851.4	2.00	-2.00	EOD; Inc=0° - Approx. Top Gas - Chevron 35-1
7,700.0	0.15	240.06	7,649.5	461.8	-716.2	851.5	0.25	0.25	
7,800.0	0.40	240.06	7,749.5	461.5	-716.6	851.7	0.25	0.25	
7,900.0	0.65	240.06	7,849.5	461.1	-717.4	852.1	0.25	0.25	
7,996.4	0.89	240.06	7,945.9	460.4	-718.5	852.8	0.25	0.25	
8,000.0	0.89	240.06	7,949.5	460.4	-718.6	852.8	0.00	0.00	
8,100.0	0.89	240.06	8,049.5	459.6	-719.9	853.6	0.00	0.00	
8,200.0	0.89	240.06	8,149.4	458.8	-721.3	854.3	0.00	0.00	
8,300.0	0.89	240.06	8,249.4	458.1	-722.6	855.1	0.00	0.00	
8,400.0	0.89	240.06	8,349.4	457.3	-724.0	855.9	0.00	0.00	
8,500.0	0.89	240.06	8,449.4	456.5	-725.3	856.6	0.00	0.00	
8,600.0	0.89	240.06	8,549.4	455.7	-726.7	857.4	0.00	0.00	
8,700.0	0.89	240.06	8,649.4	455.0	-728.0	858.2	0.00	0.00	
8,800.0	0.89	240.06	8,749.4	454.2	-729.4	858.9	0.00	0.00	
8,900.0	0.89	240.06	8,849.4	453.4	-730.7	859.7	0.00	0.00	
9,000.0	0.89	240.06	8,949.3	452.6	-732.0	860.5	0.00	0.00	
9,100.0	0.89	240.06	9,049.3	451.9	-733.4	861.2	0.00	0.00	
9,200.0	0.89	240.06	9,149.3	451.1	-734.7	862.0	0.00	0.00	
9,300.0	0.89	240.06	9,249.3	450.3	-736.1	862.8	0.00	0.00	
9,400.0	0.89	240.06	9,349.3	449.5	-737.4	863.5	0.00	0.00	
9,500.0	0.89	240.06	9,449.3	448.8	-738.8	864.3	0.00	0.00	
9,600.0	0.89	240.06	9,549.3	448.0	-740.1	865.1	0.00	0.00	
9,700.0	0.89	240.06	9,649.3	447.2	-741.5	865.8	0.00	0.00	
9,800.0	0.89	240.06	9,749.3	446.4	-742.8	866.6	0.00	0.00	
9,890.8	0.89	240.06	9,840.0	445.7	-744.0	867.3	0.00	0.00	Cameo
9,900.0	0.89	240.06	9,849.2	445.7	-744.2	867.4	0.00	0.00	
10,000.0	0.89	240.06	9,949.2	444.9	-745.5	868.1	0.00	0.00	
10,100.0	0.89	240.06	10,049.2	444.1	-746.9	868.9	0.00	0.00	
10,200.0	0.89	240.06	10,149.2	443.3	-748.2	869.7	0.00	0.00	
10,240.8	0.89	240.06	10,190.0	443.0	-748.7	870.0	0.00	0.00	Rollins SS
10,300.0	0.89	240.06	10,249.2	442.6	-749.5	870.4	0.00	0.00	
10,390.8	0.89	240.06	10,340.0	441.9	-750.8	871.1	0.00	0.00	TD at 10390.8 - Chevron 35-1D BHL

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Chevron 35-1D BHL - plan hits target center - Rectangle (sides W50.0 H100.0 D0.0)	0.00	0.00	10,340.0	441.9	-750.8	1,641,461.92	2,256,169.80	39.564932	-108.138793
Chevron 35-1D TGT - plan hits target center - Point	0.00	0.00	7,590.0	461.8	-716.1	1,641,480.84	2,256,204.98	39.564987	-108.138670

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,542.5	3,520.0	Wasatch			
5,496.7	5,460.0	Fort Union			
6,000.3	5,960.0	Base Ft Union			
7,239.3	7,190.0	Ohio Creek			
7,440.4	7,390.0	Mesaverde			
7,640.5	7,590.0	Approx. Top Gas			
9,890.8	9,840.0	Cameo			
10,240.8	10,190.0	Rollins SS			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
200.0	200.0	0.0	0.0	KOP @ 200' MD
544.9	544.0	11.2	-17.4	EOB; Inc=6.9°
7,295.7	7,246.0	450.6	-698.7	Start Drop -2.00
7,640.5	7,590.0	461.8	-716.1	EOD; Inc=0°
10,390.8	10,340.0	460.4	-718.5	TD at 10390.8

Berry Petroleum Company (NAD 83)

Garfield County
Chevron D05 696 Pad
Chevron 35-1D
DD
Plan #4

Anticollision Report

22 November, 2010

Cathedral Energy Services

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**Offset TVD Reference:**	Offset Datum

Reference Plan #4

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	10,390.8	Plan #4 (DD)	MWD	Geolink MWD

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Chevron D05 696 Pad						
Chevron 5-14D(do not use) - DD - Plan #1	507.2	507.1	8.9	7.1	4.766	CC, ES, SF
Chevron 5-15D(do not use) - DD - Plan #1	442.8	442.5	23.9	22.3	15.120	CC, ES
Chevron 5-15D(do not use) - DD - Plan #1	500.0	498.5	26.1	24.3	14.413	SF
Chevron 5-16D - DD - Plan #3	200.0	200.0	44.3	43.6	69.699	CC, ES
Chevron 5-16D - DD - Plan #3	400.0	396.2	55.9	54.5	41.783	SF
Chevron 5-24D - DD - Plan #2	200.0	200.0	30.4	29.8	47.910	CC, ES
Chevron 5-24D - DD - Plan #2	500.0	500.3	40.1	38.4	23.424	SF
Chevron 5-26D - DD - Plan #2	295.0	295.4	15.2	14.2	15.617	CC
Chevron 5-26D - DD - Plan #2	300.0	300.4	15.2	14.2	15.339	ES
Chevron 5-26D - DD - Plan #2	400.0	400.5	16.8	15.4	12.379	SF
Chevron 5-27D - DD - Plan #3	534.9	534.2	22.9	21.0	12.030	CC, ES
Chevron 5-27D - DD - Plan #3	10,390.8	10,360.4	420.2	382.3	11.070	SF
Chevron 5-28D - DD - Plan #4	316.5	316.3	14.4	13.3	13.573	CC, ES
Chevron 5-28D - DD - Plan #4	400.0	399.1	16.7	15.3	12.152	SF

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron D05 696 Pad - Chevron 5-14D(do not use) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-43.36	24.8	-23.4	34.1				
100.0	100.0	100.0	100.0	0.1	0.2	-43.36	24.8	-23.4	34.1	33.8	0.29	116.231	
200.0	200.0	200.0	200.0	0.3	0.3	-43.36	24.8	-23.4	34.1	33.4	0.64	53.062	
300.0	300.0	301.0	301.0	0.5	0.5	15.58	23.9	-21.9	30.7	29.7	0.99	30.912	
400.0	399.8	401.3	401.1	0.7	0.7	24.17	21.2	-17.3	20.9	19.5	1.35	15.476	
500.0	499.5	500.1	499.6	0.9	0.9	79.27	16.9	-9.8	9.1	7.2	1.84	4.938	
507.2	506.6	507.1	506.5	0.9	0.9	88.58	16.6	-9.2	8.9	7.1	1.88	4.766	CC, ES, SF
600.0	598.8	597.0	595.7	1.2	1.2	155.85	11.0	0.4	23.9	21.8	2.08	11.500	
700.0	698.0	693.1	690.8	1.4	1.5	167.67	4.0	12.6	49.4	47.0	2.38	20.707	
800.0	797.3	789.6	786.2	1.7	1.7	171.43	-3.1	24.9	75.6	72.9	2.72	27.845	
900.0	896.6	886.0	881.5	2.0	2.0	173.25	-10.3	37.3	102.0	99.0	3.05	33.427	
1,000.0	995.9	982.4	976.9	2.2	2.3	174.32	-17.4	49.6	128.5	125.1	3.39	37.902	
1,100.0	1,095.2	1,078.8	1,072.2	2.5	2.6	175.02	-24.5	62.0	155.0	151.3	3.73	41.565	
1,200.0	1,194.4	1,175.2	1,167.6	2.8	2.9	175.52	-31.7	74.3	181.5	177.5	4.07	44.618	
1,300.0	1,293.7	1,271.6	1,262.9	3.0	3.2	175.90	-38.8	86.6	208.0	203.6	4.41	47.202	
1,400.0	1,393.0	1,368.0	1,358.3	3.3	3.5	176.18	-45.9	99.0	234.6	229.8	4.75	49.416	
1,500.0	1,492.3	1,464.4	1,453.6	3.6	3.8	176.41	-53.1	111.3	261.1	256.0	5.09	51.335	
1,600.0	1,591.5	1,560.8	1,549.0	3.8	4.1	176.60	-60.2	123.7	287.6	282.2	5.43	53.014	
1,700.0	1,690.8	1,657.3	1,644.3	4.1	4.4	176.75	-67.3	136.0	314.2	308.4	5.77	54.495	
1,800.0	1,790.1	1,753.7	1,739.7	4.4	4.7	176.89	-74.4	148.4	340.7	334.6	6.10	55.812	
1,900.0	1,889.4	1,850.1	1,835.1	4.7	5.0	177.00	-81.6	160.7	367.3	360.8	6.44	56.989	
2,000.0	1,988.6	1,946.5	1,930.4	4.9	5.3	177.10	-88.7	173.1	393.8	387.0	6.78	58.049	
2,100.0	2,087.9	2,042.9	2,025.8	5.2	5.6	177.18	-95.8	185.4	420.3	413.2	7.12	59.008	
2,200.0	2,187.2	2,139.3	2,121.1	5.5	5.9	177.26	-103.0	197.8	446.9	439.4	7.46	59.879	
2,300.0	2,286.5	2,235.7	2,216.5	5.8	6.2	177.32	-110.1	210.1	473.4	465.6	7.80	60.675	
2,400.0	2,385.7	2,332.1	2,311.8	6.0	6.5	177.38	-117.2	222.5	500.0	491.8	8.14	61.404	
2,500.0	2,485.0	2,428.5	2,407.2	6.3	6.8	177.43	-124.4	234.8	526.5	518.0	8.48	62.075	
2,600.0	2,584.3	2,525.0	2,502.5	6.6	7.1	177.48	-131.5	247.1	553.1	544.2	8.82	62.694	
2,700.0	2,683.6	2,621.4	2,597.9	6.8	7.4	177.53	-138.6	259.5	579.6	570.5	9.16	63.267	
2,800.0	2,782.8	2,717.8	2,693.2	7.1	7.7	177.57	-145.8	271.8	606.2	596.7	9.50	63.800	
2,900.0	2,882.1	2,814.2	2,788.6	7.4	8.0	177.60	-152.9	284.2	632.7	622.9	9.84	64.295	
3,000.0	2,981.4	2,910.6	2,883.9	7.7	8.3	177.64	-160.0	296.5	659.3	649.1	10.18	64.758	
3,100.0	3,080.7	3,007.0	2,979.3	7.9	8.6	177.67	-167.2	308.9	685.8	675.3	10.52	65.190	
3,200.0	3,180.0	3,103.4	3,074.6	8.2	8.9	177.70	-174.3	321.2	712.4	701.5	10.86	65.596	
3,300.0	3,279.2	3,199.8	3,170.0	8.5	9.2	177.72	-181.4	333.6	738.9	727.7	11.20	65.977	
3,400.0	3,378.5	3,296.2	3,265.3	8.8	9.5	177.75	-188.5	345.9	765.4	753.9	11.54	66.335	
3,500.0	3,477.8	3,392.7	3,360.7	9.0	9.8	177.77	-195.7	358.3	792.0	780.1	11.88	66.673	
3,600.0	3,577.1	3,489.1	3,456.0	9.3	10.1	177.79	-202.8	370.6	818.5	806.3	12.22	66.993	
3,700.0	3,676.3	3,585.5	3,551.4	9.6	10.4	177.81	-209.9	382.9	845.1	832.5	12.56	67.295	
3,800.0	3,775.6	3,681.9	3,646.7	9.9	10.7	177.83	-217.1	395.3	871.6	858.7	12.90	67.581	
3,900.0	3,874.9	3,778.3	3,742.1	10.1	11.0	177.85	-224.2	407.6	898.2	885.0	13.24	67.852	
4,000.0	3,974.2	3,874.7	3,837.4	10.4	11.3	177.87	-231.3	420.0	924.7	911.2	13.58	68.110	
4,100.0	4,073.4	3,971.1	3,932.8	10.7	11.6	177.88	-238.5	432.3	951.3	937.4	13.92	68.355	
4,200.0	4,172.7	4,067.5	4,028.1	10.9	12.0	177.90	-245.6	444.7	977.8	963.6	14.26	68.589	
4,300.0	4,272.0	4,163.9	4,123.5	11.2	12.3	177.91	-252.7	457.0	1,004.4	989.8	14.60	68.811	
4,400.0	4,371.3	4,260.4	4,218.8	11.5	12.6	177.93	-259.9	469.4	1,030.9	1,016.0	14.94	69.024	
4,500.0	4,470.5	4,356.8	4,314.2	11.8	12.9	177.94	-267.0	481.7	1,057.5	1,042.2	15.28	69.227	
4,600.0	4,569.8	4,453.2	4,409.5	12.0	13.2	177.95	-274.1	494.1	1,084.0	1,068.4	15.62	69.421	
4,700.0	4,669.1	4,549.6	4,504.9	12.3	13.5	177.96	-281.3	506.4	1,110.6	1,094.6	15.95	69.607	
4,800.0	4,768.4	4,646.0	4,600.2	12.6	13.8	177.97	-288.4	518.7	1,137.1	1,120.8	16.29	69.785	
4,900.0	4,867.7	4,742.4	4,695.6	12.9	14.1	177.98	-295.5	531.1	1,163.7	1,147.0	16.63	69.956	
5,000.0	4,966.9	4,838.8	4,790.9	13.1	14.4	177.99	-302.6	543.4	1,190.2	1,173.3	16.97	70.120	

CC - Min centre to center distance or covergent 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 35-1D
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 35-1D	**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 #4	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron D05 696 Pad - Chevron 5-14D(do not use) - DD - Plan #1

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,066.2	4,935.2	4,886.3	13.4	14.7	178.00	-309.8	555.8	1,216.8	1,199.5	17.31	70.278	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron D05 696 Pad - Chevron 5-15D(do not use) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-17.30	29.9	-9.3	31.3				
100.0	100.0	100.0	100.0	0.1	0.2	-17.30	29.9	-9.3	31.3	31.0	0.29	106.721	
200.0	200.0	200.0	200.0	0.3	0.3	-17.30	29.9	-9.3	31.3	30.6	0.64	48.720	
300.0	300.0	300.4	300.4	0.5	0.5	45.11	29.5	-7.6	29.2	28.2	1.00	29.273	
400.0	399.8	400.2	400.0	0.7	0.7	65.09	28.3	-2.5	24.7	23.3	1.38	17.859	
442.8	442.5	442.5	442.2	0.8	0.8	80.15	27.5	0.7	23.9	22.3	1.58	15.120	CC, ES
500.0	499.5	498.5	497.9	0.9	0.9	103.61	26.3	5.8	26.1	24.3	1.81	14.413	SF
600.0	598.8	595.2	593.9	1.2	1.2	133.91	23.7	17.1	41.3	39.2	2.14	19.325	
700.0	698.0	692.1	690.1	1.4	1.4	146.97	20.8	29.3	62.9	60.5	2.45	25.637	
800.0	797.3	789.1	786.2	1.7	1.7	153.26	18.0	41.6	86.0	83.2	2.78	30.910	
900.0	896.6	886.1	882.4	2.0	2.0	156.87	15.1	53.8	109.7	106.6	3.12	35.167	
1,000.0	995.9	983.1	978.6	2.2	2.2	159.19	12.3	66.0	133.6	130.2	3.46	38.627	
1,100.0	1,095.2	1,080.0	1,074.7	2.5	2.5	160.81	9.4	78.3	157.7	153.9	3.80	41.481	
1,200.0	1,194.4	1,177.0	1,170.9	2.8	2.8	162.00	6.5	90.5	181.9	177.7	4.15	43.868	
1,300.0	1,293.7	1,274.0	1,267.0	3.0	3.1	162.91	3.7	102.7	206.1	201.6	4.49	45.892	
1,400.0	1,393.0	1,371.0	1,363.2	3.3	3.3	163.63	0.8	115.0	230.4	225.6	4.84	47.629	
1,500.0	1,492.3	1,467.9	1,459.4	3.6	3.6	164.22	-2.1	127.2	254.7	249.5	5.18	49.134	
1,600.0	1,591.5	1,564.9	1,555.5	3.8	3.9	164.70	-4.9	139.4	279.0	273.5	5.53	50.450	
1,700.0	1,690.8	1,661.9	1,651.7	4.1	4.2	165.10	-7.8	151.7	303.3	297.4	5.88	51.612	
1,800.0	1,790.1	1,758.9	1,747.8	4.4	4.4	165.44	-10.6	163.9	327.7	321.4	6.22	52.644	
1,900.0	1,889.4	1,855.8	1,844.0	4.7	4.7	165.74	-13.5	176.1	352.0	345.4	6.57	53.566	
2,000.0	1,988.6	1,952.8	1,940.1	4.9	5.0	166.00	-16.4	188.4	376.4	369.5	6.92	54.396	
2,100.0	2,087.9	2,049.8	2,036.3	5.2	5.3	166.23	-19.2	200.6	400.7	393.5	7.27	55.146	
2,200.0	2,187.2	2,146.8	2,132.5	5.5	5.6	166.43	-22.1	212.8	425.1	417.5	7.61	55.828	
2,300.0	2,286.5	2,243.7	2,228.6	5.8	5.8	166.60	-25.0	225.1	449.5	441.5	7.96	56.450	
2,400.0	2,385.7	2,340.7	2,324.8	6.0	6.1	166.77	-27.8	237.3	473.9	465.6	8.31	57.020	
2,500.0	2,485.0	2,437.7	2,420.9	6.3	6.4	166.91	-30.7	249.5	498.3	489.6	8.66	57.544	
2,600.0	2,584.3	2,534.7	2,517.1	6.6	6.7	167.04	-33.5	261.8	522.6	513.6	9.01	58.027	
2,700.0	2,683.6	2,631.6	2,613.2	6.8	6.9	167.16	-36.4	274.0	547.0	537.7	9.35	58.475	
2,800.0	2,782.8	2,728.6	2,709.4	7.1	7.2	167.27	-39.3	286.2	571.4	561.7	9.70	58.890	
2,900.0	2,882.1	2,825.6	2,805.6	7.4	7.5	167.37	-42.1	298.4	595.8	585.8	10.05	59.276	
3,000.0	2,981.4	2,922.6	2,901.7	7.7	7.8	167.46	-45.0	310.7	620.2	609.8	10.40	59.637	
3,100.0	3,080.7	3,019.5	2,997.9	7.9	8.1	167.55	-47.9	322.9	644.6	633.8	10.75	59.974	
3,200.0	3,180.0	3,116.5	3,094.0	8.2	8.3	167.63	-50.7	335.1	669.0	657.9	11.10	60.289	
3,300.0	3,279.2	3,213.5	3,190.2	8.5	8.6	167.70	-53.6	347.4	693.4	681.9	11.44	60.586	
3,400.0	3,378.5	3,310.5	3,286.3	8.8	8.9	167.77	-56.4	359.6	717.8	706.0	11.79	60.865	
3,500.0	3,477.8	3,407.4	3,382.5	9.0	9.2	167.83	-59.3	371.8	742.2	730.0	12.14	61.128	
3,600.0	3,577.1	3,504.4	3,478.7	9.3	9.4	167.89	-62.2	384.1	766.6	754.1	12.49	61.376	
3,700.0	3,676.3	3,601.4	3,574.8	9.6	9.7	167.95	-65.0	396.3	791.0	778.1	12.84	61.611	
3,800.0	3,775.6	3,698.4	3,671.0	9.9	10.0	168.00	-67.9	408.5	815.4	802.2	13.19	61.833	
3,900.0	3,874.9	3,795.3	3,767.1	10.1	10.3	168.05	-70.7	420.8	839.8	826.2	13.54	62.044	
4,000.0	3,974.2	3,892.3	3,863.3	10.4	10.6	168.10	-73.6	433.0	864.2	850.3	13.88	62.244	
4,100.0	4,073.4	3,989.3	3,959.4	10.7	10.8	168.15	-76.5	445.2	888.6	874.4	14.23	62.435	
4,200.0	4,172.7	4,086.3	4,055.6	10.9	11.1	168.19	-79.3	457.5	913.0	898.4	14.58	62.616	
4,300.0	4,272.0	4,183.2	4,151.8	11.2	11.4	168.23	-82.2	469.7	937.4	922.5	14.93	62.789	
4,400.0	4,371.3	4,280.2	4,247.9	11.5	11.7	168.27	-85.1	481.9	961.8	946.5	15.28	62.954	
4,500.0	4,470.5	4,377.2	4,344.1	11.8	11.9	168.30	-87.9	494.2	986.2	970.6	15.63	63.111	
4,600.0	4,569.8	4,474.2	4,440.2	12.0	12.2	168.34	-90.8	506.4	1,010.6	994.6	15.97	63.262	
4,700.0	4,669.1	4,571.1	4,536.4	12.3	12.5	168.37	-93.6	518.6	1,035.0	1,018.7	16.32	63.406	
4,800.0	4,768.4	4,668.1	4,632.5	12.6	12.8	168.40	-96.5	530.9	1,059.4	1,042.7	16.67	63.544	
4,900.0	4,867.7	4,765.1	4,728.7	12.9	13.1	168.43	-99.4	543.1	1,083.8	1,066.8	17.02	63.677	
5,000.0	4,966.9	4,862.1	4,824.9	13.1	13.3	168.46	-102.2	555.3	1,108.2	1,090.9	17.37	63.804	

CC - Min centre to center distance or covergent 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 35-1D
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 35-1D	**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 #4	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron D05 696 Pad - Chevron 5-15D(do not use) - DD - Plan #1

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,066.2	4,959.0	4,921.0	13.4	13.6	168.49	-105.1	567.6	1,132.6	1,114.9	17.72	63.926	
5,200.0	5,165.5	5,056.0	5,017.2	13.7	13.9	168.51	-108.0	579.8	1,157.0	1,139.0	18.07	64.043	
5,300.0	5,264.8	5,153.0	5,113.3	14.0	14.2	168.54	-110.8	592.0	1,181.4	1,163.0	18.42	64.156	
5,400.0	5,364.0	5,250.0	5,209.5	14.2	14.4	168.56	-113.7	604.3	1,205.8	1,187.1	18.76	64.265	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	72.76	13.1	42.3	44.3				
100.0	100.0	100.0	100.0	0.1	0.1	72.76	13.1	42.3	44.3	44.0	0.29	154.697	
200.0	200.0	200.0	200.0	0.3	0.3	72.76	13.1	42.3	44.3	43.6	0.64	69.699	CC, ES
300.0	300.0	298.4	298.4	0.5	0.5	131.85	13.3	44.0	47.1	46.1	0.98	47.909	
400.0	399.8	396.2	396.0	0.7	0.7	136.35	14.0	48.9	55.9	54.5	1.34	41.783	SF
500.0	499.5	492.7	492.2	0.9	0.9	141.29	15.1	57.1	71.0	69.3	1.70	41.831	
600.0	598.8	589.8	588.7	1.2	1.1	145.50	16.5	67.6	91.2	89.1	2.06	44.286	
700.0	698.0	687.5	685.8	1.4	1.4	148.35	17.9	78.3	112.2	109.7	2.42	46.263	
800.0	797.3	785.2	782.9	1.7	1.6	150.31	19.3	89.1	133.3	130.5	2.79	47.779	
900.0	896.6	882.8	879.9	2.0	1.9	151.73	20.8	99.8	154.5	151.4	3.16	48.970	
1,000.0	995.9	980.5	977.0	2.2	2.1	152.80	22.2	110.5	175.8	172.3	3.52	49.926	
1,100.0	1,095.2	1,078.1	1,074.0	2.5	2.4	153.65	23.6	121.2	197.2	193.3	3.89	50.709	
1,200.0	1,194.4	1,175.8	1,171.1	2.8	2.6	154.33	25.0	131.9	218.6	214.3	4.26	51.361	
1,300.0	1,293.7	1,273.4	1,268.1	3.0	2.9	154.88	26.5	142.6	240.0	235.4	4.62	51.911	
1,400.0	1,393.0	1,371.1	1,365.2	3.3	3.1	155.35	27.9	153.3	261.4	256.4	4.99	52.381	
1,500.0	1,492.3	1,468.7	1,462.3	3.6	3.4	155.74	29.3	164.0	282.9	277.5	5.36	52.788	
1,600.0	1,591.5	1,566.4	1,559.3	3.8	3.6	156.08	30.7	174.7	304.3	298.6	5.73	53.143	
1,700.0	1,690.8	1,664.1	1,656.4	4.1	3.9	156.38	32.2	185.4	325.8	319.7	6.09	53.455	
1,800.0	1,790.1	1,761.7	1,753.4	4.4	4.1	156.64	33.6	196.1	347.3	340.8	6.46	53.732	
1,900.0	1,889.4	1,859.4	1,850.5	4.7	4.4	156.87	35.0	206.8	368.8	361.9	6.83	53.980	
2,000.0	1,988.6	1,957.0	1,947.5	4.9	4.7	157.07	36.4	217.5	390.2	383.0	7.20	54.202	
2,100.0	2,087.9	2,054.7	2,044.6	5.2	4.9	157.25	37.9	228.2	411.7	404.2	7.57	54.402	
2,200.0	2,187.2	2,152.3	2,141.7	5.5	5.2	157.42	39.3	238.9	433.2	425.3	7.94	54.584	
2,300.0	2,286.5	2,250.0	2,238.7	5.8	5.4	157.56	40.7	249.6	454.7	446.4	8.31	54.750	
2,400.0	2,385.7	2,347.6	2,335.8	6.0	5.7	157.70	42.1	260.3	476.2	467.5	8.67	54.901	
2,500.0	2,485.0	2,445.3	2,432.8	6.3	5.9	157.82	43.5	271.0	497.7	488.7	9.04	55.041	
2,600.0	2,584.3	2,543.0	2,529.9	6.6	6.2	157.94	45.0	281.8	519.2	509.8	9.41	55.169	
2,700.0	2,683.6	2,640.6	2,626.9	6.8	6.4	158.04	46.4	292.5	540.7	530.9	9.78	55.288	
2,800.0	2,782.8	2,738.3	2,724.0	7.1	6.7	158.14	47.8	303.2	562.2	552.1	10.15	55.398	
2,900.0	2,882.1	2,835.9	2,821.1	7.4	6.9	158.22	49.2	313.9	583.7	573.2	10.52	55.500	
3,000.0	2,981.4	2,933.6	2,918.1	7.7	7.2	158.31	50.7	324.6	605.2	594.4	10.89	55.595	
3,100.0	3,080.7	3,031.2	3,015.2	7.9	7.5	158.38	52.1	335.3	626.8	615.5	11.26	55.685	
3,200.0	3,180.0	3,128.9	3,112.2	8.2	7.7	158.46	53.5	346.0	648.3	636.6	11.62	55.768	
3,300.0	3,279.2	3,226.6	3,209.3	8.5	8.0	158.52	54.9	356.7	669.8	657.8	11.99	55.846	
3,400.0	3,378.5	3,324.2	3,306.3	8.8	8.2	158.59	56.4	367.4	691.3	678.9	12.36	55.920	
3,500.0	3,477.8	3,421.9	3,403.4	9.0	8.5	158.65	57.8	378.1	712.8	700.1	12.73	55.989	
3,600.0	3,577.1	3,519.5	3,500.5	9.3	8.7	158.70	59.2	388.8	734.3	721.2	13.10	56.055	
3,700.0	3,676.3	3,617.2	3,597.5	9.6	9.0	158.76	60.6	399.5	755.8	742.4	13.47	56.116	
3,800.0	3,775.6	3,714.8	3,694.6	9.9	9.2	158.81	62.1	410.2	777.3	763.5	13.84	56.175	
3,900.0	3,874.9	3,812.5	3,791.6	10.1	9.5	158.85	63.5	420.9	798.9	784.7	14.21	56.230	
4,000.0	3,974.2	3,910.1	3,888.7	10.4	9.7	158.90	64.9	431.6	820.4	805.8	14.58	56.283	
4,100.0	4,073.4	4,007.8	3,985.7	10.7	10.0	158.94	66.3	442.3	841.9	827.0	14.94	56.333	
4,200.0	4,172.7	4,105.5	4,082.8	10.9	10.3	158.98	67.7	453.0	863.4	848.1	15.31	56.381	
4,300.0	4,272.0	4,203.1	4,179.9	11.2	10.5	159.02	69.2	463.7	884.9	869.2	15.68	56.426	
4,400.0	4,371.3	4,300.8	4,276.9	11.5	10.8	159.05	70.6	474.5	906.4	890.4	16.05	56.470	
4,500.0	4,470.5	4,398.4	4,374.0	11.8	11.0	159.09	72.0	485.2	928.0	911.5	16.42	56.511	
4,600.0	4,569.8	4,496.1	4,471.0	12.0	11.3	159.12	73.4	495.9	949.5	932.7	16.79	56.550	
4,700.0	4,669.1	4,593.7	4,568.1	12.3	11.5	159.15	74.9	506.6	971.0	953.8	17.16	56.588	
4,800.0	4,768.4	4,691.4	4,665.1	12.6	11.8	159.18	76.3	517.3	992.5	975.0	17.53	56.624	
4,900.0	4,867.7	4,789.0	4,762.2	12.9	12.0	159.21	77.7	528.0	1,014.0	996.1	17.90	56.659	
5,000.0	4,966.9	4,886.7	4,859.3	13.1	12.3	159.24	79.1	538.7	1,035.6	1,017.3	18.27	56.693	
5,100.0	5,066.2	4,984.4	4,956.3	13.4	12.5	159.27	80.6	549.4	1,057.1	1,038.4	18.64	56.725	

CC - Min centre to center distance or covergent 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 35-1D
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 35-1D	**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 #4	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron D05 696 Pad - Chevron 5-16D - DD - Plan #3

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,165.5	5,082.0	5,053.4	13.7	12.8	159.29	82.0	560.1	1,078.6	1,059.6	19.00	56.755	
5,300.0	5,264.8	5,179.7	5,150.4	14.0	13.1	159.32	83.4	570.8	1,100.1	1,080.7	19.37	56.785	
5,400.0	5,364.0	5,277.3	5,247.5	14.2	13.3	159.34	84.8	581.5	1,121.6	1,101.9	19.74	56.813	
5,500.0	5,463.3	5,375.0	5,344.5	14.5	13.6	159.36	86.3	592.2	1,143.2	1,123.0	20.11	56.841	
5,600.0	5,562.6	5,472.6	5,441.6	14.8	13.8	159.39	87.7	602.9	1,164.7	1,144.2	20.48	56.867	
5,700.0	5,661.9	5,570.3	5,538.7	15.0	14.1	159.41	89.1	613.6	1,186.2	1,165.4	20.85	56.893	
5,800.0	5,761.1	5,667.9	5,635.7	15.3	14.3	159.43	90.5	624.3	1,207.7	1,186.5	21.22	56.917	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	72.57	9.1	29.0	30.4				
100.0	100.0	100.0	100.0	0.1	0.1	72.57	9.1	29.0	30.4	30.2	0.29	106.336	
200.0	200.0	200.0	200.0	0.3	0.3	72.57	9.1	29.0	30.4	29.8	0.64	47.910	CC, ES
300.0	300.0	300.0	300.0	0.5	0.5	132.17	9.1	29.0	31.6	30.6	0.99	32.022	
400.0	399.8	400.4	400.4	0.7	0.7	140.99	7.5	28.4	34.5	33.1	1.35	25.615	
500.0	499.5	500.3	500.1	0.9	0.9	155.55	2.6	26.5	40.1	38.4	1.71	23.424	SF
600.0	598.8	599.1	598.6	1.2	1.1	170.71	-5.4	23.3	50.5	48.4	2.09	24.154	
700.0	698.0	697.1	695.8	1.4	1.3	-176.79	-16.4	18.9	64.3	61.8	2.50	25.683	
800.0	797.3	794.1	791.7	1.7	1.6	-166.78	-30.4	13.4	81.4	78.4	2.95	27.587	
900.0	896.6	891.6	887.8	2.0	1.9	-159.64	-45.6	7.3	100.7	97.3	3.40	29.574	
1,000.0	995.9	989.1	983.8	2.2	2.2	-154.82	-60.8	1.3	121.1	117.2	3.86	31.340	
1,100.0	1,095.2	1,086.5	1,079.9	2.5	2.6	-151.40	-76.0	-4.7	142.0	137.7	4.32	32.865	
1,200.0	1,194.4	1,184.0	1,176.0	2.8	2.9	-148.87	-91.2	-10.8	163.4	158.6	4.78	34.174	
1,300.0	1,293.7	1,281.5	1,272.1	3.0	3.2	-146.91	-106.4	-16.8	184.9	179.7	5.24	35.300	
1,400.0	1,393.0	1,379.0	1,368.2	3.3	3.5	-145.37	-121.6	-22.8	206.6	200.9	5.70	36.275	
1,500.0	1,492.3	1,476.4	1,464.3	3.6	3.8	-144.12	-136.9	-28.9	228.5	222.3	6.15	37.125	
1,600.0	1,591.5	1,573.9	1,560.4	3.8	4.2	-143.09	-152.1	-34.9	250.4	243.8	6.61	37.871	
1,700.0	1,690.8	1,671.4	1,656.5	4.1	4.5	-142.22	-167.3	-40.9	272.4	265.3	7.07	38.530	
1,800.0	1,790.1	1,768.9	1,752.6	4.4	4.8	-141.49	-182.5	-47.0	294.4	286.9	7.53	39.117	
1,900.0	1,889.4	1,866.3	1,848.7	4.7	5.2	-140.85	-197.7	-53.0	316.5	308.5	7.98	39.641	
2,000.0	1,988.6	1,963.8	1,944.8	4.9	5.5	-140.30	-212.9	-59.0	338.6	330.2	8.44	40.113	
2,100.0	2,087.9	2,061.3	2,040.9	5.2	5.8	-139.82	-228.1	-65.1	360.8	351.9	8.90	40.540	
2,200.0	2,187.2	2,158.8	2,137.0	5.5	6.2	-139.39	-243.3	-71.1	382.9	373.6	9.36	40.927	
2,300.0	2,286.5	2,256.2	2,233.1	5.8	6.5	-139.01	-258.5	-77.1	405.1	395.3	9.81	41.281	
2,400.0	2,385.7	2,353.7	2,329.1	6.0	6.8	-138.67	-273.8	-83.2	427.3	417.0	10.27	41.604	
2,500.0	2,485.0	2,451.2	2,425.2	6.3	7.1	-138.36	-289.0	-89.2	449.5	438.8	10.73	41.901	
2,600.0	2,584.3	2,548.7	2,521.3	6.6	7.5	-138.08	-304.2	-95.3	471.7	460.5	11.18	42.175	
2,700.0	2,683.6	2,646.2	2,617.4	6.8	7.8	-137.83	-319.4	-101.3	493.9	482.3	11.64	42.428	
2,800.0	2,782.8	2,743.6	2,713.5	7.1	8.1	-137.59	-334.6	-107.3	516.2	504.1	12.10	42.663	
2,900.0	2,882.1	2,841.1	2,809.6	7.4	8.5	-137.38	-349.8	-113.4	538.4	525.8	12.56	42.882	
3,000.0	2,981.4	2,938.6	2,905.7	7.7	8.8	-137.19	-365.0	-119.4	560.7	547.6	13.01	43.085	
3,100.0	3,080.7	3,036.1	3,001.8	7.9	9.1	-137.00	-380.2	-125.4	582.9	569.4	13.47	43.276	
3,200.0	3,180.0	3,133.5	3,097.9	8.2	9.5	-136.84	-395.5	-131.5	605.2	591.2	13.93	43.454	
3,300.0	3,279.2	3,231.0	3,194.0	8.5	9.8	-136.68	-410.7	-137.5	627.4	613.0	14.38	43.621	
3,400.0	3,378.5	3,328.5	3,290.1	8.8	10.1	-136.54	-425.9	-143.5	649.7	634.9	14.84	43.778	
3,500.0	3,477.8	3,426.0	3,386.2	9.0	10.5	-136.40	-441.1	-149.6	672.0	656.7	15.30	43.926	
3,600.0	3,577.1	3,523.4	3,482.3	9.3	10.8	-136.27	-456.3	-155.6	694.2	678.5	15.75	44.066	
3,700.0	3,676.3	3,620.9	3,578.4	9.6	11.1	-136.16	-471.5	-161.6	716.5	700.3	16.21	44.198	
3,800.0	3,775.6	3,718.4	3,674.4	9.9	11.5	-136.04	-486.7	-167.7	738.8	722.1	16.67	44.323	
3,900.0	3,874.9	3,815.9	3,770.5	10.1	11.8	-135.94	-501.9	-173.7	761.1	744.0	17.13	44.442	
4,000.0	3,974.2	3,913.3	3,866.6	10.4	12.1	-135.84	-517.1	-179.7	783.4	765.8	17.58	44.554	
4,100.0	4,073.4	4,010.8	3,962.7	10.7	12.5	-135.75	-532.4	-185.8	805.7	787.6	18.04	44.661	
4,200.0	4,172.7	4,108.3	4,058.8	10.9	12.8	-135.66	-547.6	-191.8	827.9	809.5	18.50	44.763	
4,300.0	4,272.0	4,205.8	4,154.9	11.2	13.1	-135.57	-562.8	-197.8	850.2	831.3	18.95	44.860	
4,400.0	4,371.3	4,303.3	4,251.0	11.5	13.5	-135.49	-578.0	-203.9	872.5	853.1	19.41	44.952	
4,500.0	4,470.5	4,400.7	4,347.1	11.8	13.8	-135.42	-593.2	-209.9	894.8	875.0	19.87	45.040	
4,600.0	4,569.8	4,498.2	4,443.2	12.0	14.1	-135.35	-608.4	-215.9	917.1	896.8	20.32	45.125	
4,700.0	4,669.1	4,595.7	4,539.3	12.3	14.5	-135.28	-623.6	-222.0	939.4	918.6	20.78	45.205	
4,800.0	4,768.4	4,693.2	4,635.4	12.6	14.8	-135.21	-638.8	-228.0	961.7	940.5	21.24	45.283	
4,900.0	4,867.7	4,790.6	4,731.5	12.9	15.1	-135.15	-654.1	-234.0	984.0	962.3	21.70	45.357	
5,000.0	4,966.9	4,888.1	4,827.6	13.1	15.5	-135.09	-669.3	-240.1	1,006.3	984.2	22.15	45.428	
5,100.0	5,066.2	4,985.6	4,923.7	13.4	15.8	-135.03	-684.5	-246.1	1,028.6	1,006.0	22.61	45.496	

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

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,165.5	5,083.1	5,019.7	13.7	16.1	-134.98	-699.7	-252.2	1,050.9	1,027.9	23.07	45.562	
5,300.0	5,264.8	5,180.5	5,115.8	14.0	16.4	-134.92	-714.9	-258.2	1,073.2	1,049.7	23.52	45.625	
5,400.0	5,364.0	5,278.0	5,211.9	14.2	16.8	-134.87	-730.1	-264.2	1,095.5	1,071.6	23.98	45.685	
5,500.0	5,463.3	5,375.5	5,308.0	14.5	17.1	-134.83	-745.3	-270.3	1,117.8	1,093.4	24.44	45.744	
5,600.0	5,562.6	5,473.0	5,404.1	14.8	17.4	-134.78	-760.5	-276.3	1,140.1	1,115.2	24.89	45.800	
5,700.0	5,661.9	5,570.4	5,500.2	15.0	17.8	-134.74	-775.7	-282.3	1,162.4	1,137.1	25.35	45.855	
5,800.0	5,761.1	5,667.9	5,596.3	15.3	18.1	-134.69	-791.0	-288.4	1,184.8	1,158.9	25.81	45.907	
5,900.0	5,860.4	5,765.4	5,692.4	15.6	18.4	-134.65	-806.2	-294.4	1,207.1	1,180.8	26.26	45.958	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron D05 696 Pad - Chevron 5-26D - DD - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	73.35	4.4	14.7	15.3				
100.0	100.0	100.0	100.0	0.1	0.1	73.35	4.4	14.7	15.3	15.0	0.29	53.459	
200.0	200.0	200.0	200.0	0.3	0.3	73.35	4.4	14.7	15.3	14.7	0.64	24.086	
295.0	295.0	295.4	295.3	0.5	0.5	138.45	3.2	13.7	15.2	14.2	0.97	15.617 CC	
300.0	300.0	300.4	300.4	0.5	0.5	139.31	3.0	13.5	15.2	14.2	0.99	15.339 ES	
400.0	399.8	400.5	400.3	0.7	0.7	163.85	-1.0	10.2	16.8	15.4	1.36	12.379 SF	
500.0	499.5	499.9	499.3	0.9	0.9	-170.70	-7.7	4.7	24.2	22.4	1.75	13.800	
600.0	598.8	598.9	597.8	1.2	1.1	-158.40	-15.1	-1.4	36.9	34.8	2.16	17.084	
700.0	698.0	697.8	696.3	1.4	1.4	-152.74	-22.6	-7.5	50.8	48.3	2.59	19.658	
800.0	797.3	796.7	794.8	1.7	1.6	-149.52	-30.0	-13.7	65.0	62.0	3.02	21.557	
900.0	896.6	895.7	893.2	2.0	1.8	-147.46	-37.5	-19.8	79.3	75.9	3.45	22.996	
1,000.0	995.9	994.6	991.7	2.2	2.1	-146.02	-45.0	-25.9	93.7	89.8	3.89	24.118	
1,100.0	1,095.2	1,093.5	1,090.2	2.5	2.3	-144.97	-52.4	-32.0	108.1	103.8	4.32	25.013	
1,200.0	1,194.4	1,192.5	1,188.6	2.8	2.6	-144.17	-59.9	-38.2	122.6	117.8	4.76	25.743	
1,300.0	1,293.7	1,291.4	1,287.1	3.0	2.8	-143.54	-67.3	-44.3	137.1	131.9	5.20	26.349	
1,400.0	1,393.0	1,390.4	1,385.6	3.3	3.0	-143.03	-74.8	-50.4	151.5	145.9	5.64	26.860	
1,500.0	1,492.3	1,489.3	1,484.0	3.6	3.3	-142.60	-82.2	-56.6	166.0	160.0	6.08	27.296	
1,600.0	1,591.5	1,588.2	1,582.5	3.8	3.5	-142.25	-89.7	-62.7	180.5	174.0	6.52	27.673	
1,700.0	1,690.8	1,687.2	1,681.0	4.1	3.8	-141.95	-97.2	-68.8	195.0	188.1	6.97	28.001	
1,800.0	1,790.1	1,786.1	1,779.4	4.4	4.0	-141.68	-104.6	-75.0	209.5	202.1	7.41	28.290	
1,900.0	1,889.4	1,885.0	1,877.9	4.7	4.2	-141.46	-112.1	-81.1	224.1	216.2	7.85	28.546	
2,000.0	1,988.6	1,984.0	1,976.4	4.9	4.5	-141.26	-119.5	-87.2	238.6	230.3	8.29	28.775	
2,100.0	2,087.9	2,082.9	2,074.8	5.2	4.7	-141.08	-127.0	-93.4	253.1	244.4	8.73	28.980	
2,200.0	2,187.2	2,181.9	2,173.3	5.5	5.0	-140.93	-134.4	-99.5	267.6	258.4	9.18	29.165	
2,300.0	2,286.5	2,280.8	2,271.8	5.8	5.2	-140.78	-141.9	-105.6	282.1	272.5	9.62	29.333	
2,400.0	2,385.7	2,379.7	2,370.2	6.0	5.4	-140.66	-149.3	-111.7	296.7	286.6	10.06	29.486	
2,500.0	2,485.0	2,478.7	2,468.7	6.3	5.7	-140.54	-156.8	-117.9	311.2	300.7	10.50	29.626	
2,600.0	2,584.3	2,577.6	2,567.2	6.6	5.9	-140.44	-164.3	-124.0	325.7	314.8	10.95	29.755	
2,700.0	2,683.6	2,676.5	2,665.6	6.8	6.2	-140.34	-171.7	-130.1	340.2	328.9	11.39	29.873	
2,800.0	2,782.8	2,775.5	2,764.1	7.1	6.4	-140.25	-179.2	-136.3	354.8	342.9	11.83	29.983	
2,900.0	2,882.1	2,874.4	2,862.6	7.4	6.7	-140.17	-186.6	-142.4	369.3	357.0	12.28	30.084	
3,000.0	2,981.4	2,973.4	2,961.0	7.7	6.9	-140.10	-194.1	-148.5	383.8	371.1	12.72	30.178	
3,100.0	3,080.7	3,072.3	3,059.5	7.9	7.1	-140.03	-201.5	-154.7	398.4	385.2	13.16	30.266	
3,200.0	3,180.0	3,171.2	3,157.9	8.2	7.4	-139.96	-209.0	-160.8	412.9	399.3	13.60	30.349	
3,300.0	3,279.2	3,270.2	3,256.4	8.5	7.6	-139.90	-216.5	-166.9	427.4	413.4	14.05	30.426	
3,400.0	3,378.5	3,369.1	3,354.9	8.8	7.9	-139.85	-223.9	-173.1	442.0	427.5	14.49	30.498	
3,500.0	3,477.8	3,468.0	3,453.3	9.0	8.1	-139.79	-231.4	-179.2	456.5	441.5	14.93	30.566	
3,600.0	3,577.1	3,567.0	3,551.8	9.3	8.3	-139.74	-238.8	-185.3	471.0	455.6	15.38	30.630	
3,700.0	3,676.3	3,665.9	3,650.3	9.6	8.6	-139.70	-246.3	-191.5	485.5	469.7	15.82	30.690	
3,800.0	3,775.6	3,764.9	3,748.7	9.9	8.8	-139.65	-253.7	-197.6	500.1	483.8	16.26	30.747	
3,900.0	3,874.9	3,863.8	3,847.2	10.1	9.1	-139.61	-261.2	-203.7	514.6	497.9	16.71	30.801	
4,000.0	3,974.2	3,962.7	3,945.7	10.4	9.3	-139.57	-268.7	-209.8	529.1	512.0	17.15	30.852	
4,100.0	4,073.4	4,061.7	4,044.1	10.7	9.5	-139.54	-276.1	-216.0	543.7	526.1	17.59	30.901	
4,200.0	4,172.7	4,160.6	4,142.6	10.9	9.8	-139.50	-283.6	-222.1	558.2	540.2	18.04	30.947	
4,300.0	4,272.0	4,259.5	4,241.1	11.2	10.0	-139.47	-291.0	-228.2	572.8	554.3	18.48	30.991	
4,400.0	4,371.3	4,358.5	4,339.5	11.5	10.3	-139.44	-298.5	-234.4	587.3	568.4	18.92	31.033	
4,500.0	4,470.5	4,457.4	4,438.0	11.8	10.5	-139.41	-305.9	-240.5	601.8	582.5	19.37	31.073	
4,600.0	4,569.8	4,556.4	4,536.5	12.0	10.8	-139.38	-313.4	-246.6	616.4	596.5	19.81	31.111	
4,700.0	4,669.1	4,655.3	4,634.9	12.3	11.0	-139.35	-320.8	-252.8	630.9	610.6	20.25	31.148	
4,800.0	4,768.4	4,754.2	4,733.4	12.6	11.2	-139.32	-328.3	-258.9	645.4	624.7	20.70	31.182	
4,900.0	4,867.7	4,853.2	4,831.9	12.9	11.5	-139.30	-335.8	-265.0	660.0	638.8	21.14	31.216	
5,000.0	4,966.9	4,952.1	4,930.3	13.1	11.7	-139.27	-343.2	-271.2	674.5	652.9	21.59	31.248	

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

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron D05 696 Pad - Chevron 5-26D - DD - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,066.2	5,051.1	5,028.8	13.4	12.0	-139.25	-350.7	-277.3	689.0	667.0	22.03	31.279	
5,200.0	5,165.5	5,150.0	5,127.3	13.7	12.2	-139.23	-358.1	-283.4	703.6	681.1	22.47	31.308	
5,300.0	5,264.8	5,248.9	5,225.7	14.0	12.4	-139.21	-365.6	-289.5	718.1	695.2	22.92	31.337	
5,400.0	5,364.0	5,347.9	5,324.2	14.2	12.7	-139.19	-373.0	-295.7	732.6	709.3	23.36	31.364	
5,500.0	5,463.3	5,446.8	5,422.7	14.5	12.9	-139.17	-380.5	-301.8	747.2	723.4	23.80	31.390	
5,600.0	5,562.6	5,545.7	5,521.1	14.8	13.2	-139.15	-388.0	-307.9	761.7	737.5	24.25	31.415	
5,700.0	5,661.9	5,644.7	5,619.6	15.0	13.4	-139.13	-395.4	-314.1	776.2	751.6	24.69	31.440	
5,800.0	5,761.1	5,743.6	5,718.1	15.3	13.7	-139.11	-402.9	-320.2	790.8	765.6	25.13	31.463	
5,900.0	5,860.4	5,842.6	5,816.5	15.6	13.9	-139.10	-410.3	-326.3	805.3	779.7	25.58	31.486	
6,000.0	5,959.7	5,941.5	5,915.0	15.9	14.1	-139.08	-417.8	-332.5	819.9	793.8	26.02	31.508	
6,100.0	6,059.0	6,040.4	6,013.5	16.1	14.4	-139.07	-425.2	-338.6	834.4	807.9	26.46	31.529	
6,200.0	6,158.2	6,139.4	6,111.9	16.4	14.6	-139.05	-432.7	-344.7	848.9	822.0	26.91	31.550	
6,300.0	6,257.5	6,238.3	6,210.4	16.7	14.9	-139.04	-440.1	-350.9	863.5	836.1	27.35	31.569	
6,400.0	6,356.8	6,337.2	6,308.8	17.0	15.1	-139.02	-447.6	-357.0	878.0	850.2	27.79	31.589	
6,500.0	6,456.1	6,436.2	6,407.3	17.2	15.3	-139.01	-455.1	-363.1	892.5	864.3	28.24	31.607	
6,600.0	6,555.4	6,535.1	6,505.8	17.5	15.6	-139.00	-462.5	-369.3	907.1	878.4	28.68	31.625	
6,700.0	6,654.6	6,634.1	6,604.2	17.8	15.8	-138.98	-470.0	-375.4	921.6	892.5	29.13	31.643	
6,800.0	6,753.9	6,733.0	6,702.7	18.1	16.1	-138.97	-477.4	-381.5	936.1	906.6	29.57	31.660	
6,900.0	6,853.2	6,831.9	6,801.2	18.3	16.3	-138.96	-484.9	-387.6	950.7	920.7	30.01	31.676	
7,000.0	6,952.5	6,930.9	6,899.6	18.6	16.5	-138.95	-492.3	-393.8	965.2	934.8	30.46	31.692	
7,100.0	7,051.7	7,029.8	6,998.1	18.9	16.8	-138.94	-499.8	-399.9	979.8	948.9	30.90	31.707	
7,200.0	7,151.0	7,128.7	7,096.6	19.2	17.0	-138.92	-507.3	-406.0	994.3	962.9	31.34	31.722	
7,300.0	7,250.3	7,227.7	7,195.0	19.4	17.3	-138.92	-514.7	-412.2	1,008.8	977.0	31.79	31.735	
7,400.0	7,349.8	7,326.8	7,293.7	19.7	17.5	-139.02	-522.2	-418.3	1,021.9	989.7	32.24	31.695	
7,500.0	7,449.5	7,446.2	7,412.7	19.8	17.8	-138.97	-529.9	-424.6	1,031.7	999.0	32.68	31.570	
7,600.0	7,549.5	7,571.7	7,538.0	20.0	18.0	-138.94	-533.9	-427.9	1,036.4	1,003.4	33.04	31.368	
7,700.0	7,649.5	7,682.5	7,648.9	20.1	18.1	-76.18	-534.3	-428.3	1,036.9	1,003.5	33.34	31.101	
7,800.0	7,749.5	7,781.5	7,747.8	20.2	18.2	-76.18	-534.6	-428.7	1,036.9	1,003.2	33.63	30.830	
7,900.0	7,849.5	7,880.4	7,846.7	20.3	18.4	-76.18	-535.0	-429.5	1,036.9	1,002.9	33.93	30.555	
8,000.0	7,949.5	7,979.3	7,945.6	20.5	18.5	-76.19	-535.7	-430.6	1,036.9	1,002.6	34.25	30.277	
8,002.5	7,952.0	7,981.8	7,948.1	20.5	18.5	-76.19	-535.7	-430.7	1,036.9	1,002.6	34.25	30.270	
8,100.0	8,049.5	8,079.3	8,045.6	20.6	18.7	-76.19	-536.4	-432.0	1,036.9	1,002.3	34.56	30.001	
8,200.0	8,149.4	8,179.3	8,145.6	20.7	18.8	-76.19	-537.2	-433.3	1,036.9	1,002.0	34.88	29.730	
8,300.0	8,249.4	8,279.3	8,245.5	20.8	19.0	-76.19	-538.0	-434.7	1,036.9	1,001.7	35.19	29.463	
8,400.0	8,349.4	8,379.3	8,345.5	21.0	19.1	-76.19	-538.8	-436.0	1,036.9	1,001.4	35.51	29.200	
8,500.0	8,449.4	8,479.3	8,445.5	21.1	19.3	-76.19	-539.6	-437.4	1,036.9	1,001.1	35.83	28.942	
8,600.0	8,549.4	8,579.3	8,545.5	21.2	19.4	-76.19	-540.3	-438.7	1,036.9	1,000.7	36.14	28.687	
8,700.0	8,649.4	8,679.3	8,645.5	21.4	19.6	-76.19	-541.1	-440.1	1,036.9	1,000.4	36.46	28.436	
8,800.0	8,749.4	8,779.3	8,745.5	21.5	19.7	-76.19	-541.9	-441.4	1,036.9	1,000.1	36.78	28.189	
8,900.0	8,849.4	8,879.3	8,845.5	21.6	19.9	-76.19	-542.7	-442.7	1,036.9	999.8	37.10	27.946	
9,000.0	8,949.3	8,979.3	8,945.5	21.8	20.0	-76.19	-543.5	-444.1	1,036.9	999.5	37.42	27.707	
9,100.0	9,049.3	9,079.3	9,045.5	21.9	20.2	-76.18	-544.2	-445.4	1,036.9	999.2	37.74	27.471	
9,200.0	9,149.3	9,179.3	9,145.4	22.0	20.3	-76.18	-545.0	-446.8	1,036.9	998.8	38.07	27.239	
9,300.0	9,249.3	9,279.3	9,245.4	22.2	20.5	-76.18	-545.8	-448.1	1,036.9	998.5	38.39	27.011	
9,400.0	9,349.3	9,379.3	9,345.4	22.3	20.6	-76.18	-546.6	-449.5	1,036.9	998.2	38.71	26.785	
9,500.0	9,449.3	9,479.3	9,445.4	22.4	20.8	-76.18	-547.4	-450.8	1,036.9	997.9	39.04	26.564	
9,600.0	9,549.3	9,579.3	9,545.4	22.6	21.0	-76.18	-548.1	-452.2	1,036.9	997.6	39.36	26.345	
9,700.0	9,649.3	9,679.3	9,645.4	22.7	21.1	-76.18	-548.9	-453.5	1,036.9	997.2	39.68	26.130	
9,800.0	9,749.3	9,779.3	9,745.4	22.9	21.3	-76.18	-549.7	-454.9	1,036.9	996.9	40.01	25.918	
9,900.0	9,849.2	9,879.3	9,845.4	23.0	21.4	-76.18	-550.5	-456.2	1,036.9	996.6	40.33	25.709	
10,000.0	9,949.2	9,979.3	9,945.3	23.1	21.6	-76.18	-551.3	-457.6	1,036.9	996.3	40.66	25.503	
10,100.0	10,049.2	10,079.3	10,045.3	23.3	21.7	-76.18	-552.0	-458.9	1,036.9	996.0	40.99	25.300	

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

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron D05 696 Pad - Chevron 5-26D - DD - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,200.0	10,149.2	10,179.3	10,145.3	23.4	21.9	-76.18	-552.8	-460.3	1,036.9	995.6	41.31	25.100	
10,300.0	10,249.2	10,279.3	10,245.3	23.6	22.0	-76.18	-553.6	-461.6	1,036.9	995.3	41.64	24.903	
10,390.8	10,340.0	10,370.1	10,336.1	23.7	22.2	-76.18	-554.3	-462.8	1,036.9	995.0	41.94	24.726	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-106.89	-8.7	-28.8	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	-106.89	-8.7	-28.8	30.1	29.8	0.29	104.992	
200.0	200.0	200.0	200.0	0.3	0.3	-106.89	-8.7	-28.8	30.1	29.4	0.64	47.304	
300.0	300.0	300.0	300.0	0.5	0.5	-52.35	-8.7	-28.8	29.0	28.0	0.99	29.349	
400.0	399.8	399.8	399.8	0.7	0.7	-61.53	-8.7	-28.8	26.1	24.7	1.35	19.297	
500.0	499.5	499.5	499.5	0.9	0.8	-80.77	-8.7	-28.8	23.2	21.5	1.76	13.228	
534.9	534.2	534.2	534.2	1.0	0.9	-90.00	-8.7	-28.8	22.9	21.0	1.91	12.030	CC, ES
600.0	598.8	598.8	598.8	1.2	1.0	-108.93	-8.7	-28.8	24.2	22.1	2.17	11.196	
700.0	698.0	698.0	698.0	1.4	1.2	-130.79	-8.7	-28.8	30.4	27.9	2.52	12.075	
800.0	797.3	797.3	797.3	1.7	1.4	-144.13	-8.7	-28.8	39.3	36.5	2.84	13.839	
900.0	896.6	896.6	896.6	2.0	1.5	-152.28	-8.7	-28.8	49.6	46.4	3.17	15.652	
1,000.0	995.9	995.9	995.9	2.2	1.7	-157.58	-8.7	-28.8	60.5	57.0	3.50	17.289	
1,100.0	1,095.2	1,097.1	1,097.1	2.5	1.9	-160.53	-8.3	-30.3	70.4	66.6	3.84	18.328	
1,200.0	1,194.4	1,199.0	1,198.8	2.8	2.1	-161.27	-6.8	-35.4	77.6	73.4	4.20	18.457	
1,300.0	1,293.7	1,300.0	1,299.5	3.0	2.3	-160.64	-4.4	-43.4	82.2	77.6	4.58	17.953	
1,400.0	1,393.0	1,399.9	1,399.1	3.3	2.5	-159.91	-1.9	-51.8	86.4	81.5	4.96	17.440	
1,500.0	1,492.3	1,499.8	1,498.6	3.6	2.7	-159.24	0.5	-60.1	90.7	85.4	5.34	16.990	
1,600.0	1,591.5	1,599.7	1,598.1	3.8	2.9	-158.64	3.0	-68.5	95.0	89.3	5.73	16.593	
1,700.0	1,690.8	1,699.7	1,697.6	4.1	3.1	-158.09	5.5	-76.8	99.3	93.2	6.12	16.239	
1,800.0	1,790.1	1,799.6	1,797.1	4.4	3.3	-157.58	8.0	-85.2	103.6	97.1	6.51	15.923	
1,900.0	1,889.4	1,899.5	1,896.7	4.7	3.5	-157.12	10.4	-93.6	107.9	101.0	6.90	15.639	
2,000.0	1,988.6	1,999.4	1,996.2	4.9	3.7	-156.69	12.9	-101.9	112.3	105.0	7.30	15.382	
2,100.0	2,087.9	2,099.3	2,095.7	5.2	4.0	-156.29	15.4	-110.3	116.6	108.9	7.70	15.148	
2,200.0	2,187.2	2,199.2	2,195.2	5.5	4.2	-155.92	17.9	-118.6	120.9	112.8	8.10	14.935	
2,300.0	2,286.5	2,299.1	2,294.8	5.8	4.4	-155.57	20.3	-127.0	125.2	116.7	8.50	14.740	
2,400.0	2,385.7	2,399.0	2,394.3	6.0	4.6	-155.25	22.8	-135.4	129.6	120.7	8.90	14.561	
2,500.0	2,485.0	2,498.9	2,493.8	6.3	4.8	-154.95	25.3	-143.7	133.9	124.6	9.30	14.396	
2,600.0	2,584.3	2,598.8	2,593.3	6.6	5.1	-154.67	27.7	-152.1	138.3	128.6	9.71	14.244	
2,700.0	2,683.6	2,698.7	2,692.8	6.8	5.3	-154.41	30.2	-160.4	142.6	132.5	10.11	14.102	
2,800.0	2,782.8	2,798.6	2,792.4	7.1	5.5	-154.16	32.7	-168.8	147.0	136.5	10.52	13.971	
2,900.0	2,882.1	2,898.5	2,891.9	7.4	5.7	-153.92	35.2	-177.2	151.3	140.4	10.93	13.849	
3,000.0	2,981.4	2,998.4	2,991.4	7.7	6.0	-153.70	37.6	-185.5	155.7	144.4	11.34	13.734	
3,100.0	3,080.7	3,098.3	3,090.9	7.9	6.2	-153.49	40.1	-193.9	160.1	148.3	11.75	13.627	
3,200.0	3,180.0	3,198.2	3,190.5	8.2	6.4	-153.30	42.6	-202.2	164.4	152.3	12.16	13.527	
3,300.0	3,279.2	3,298.1	3,290.0	8.5	6.7	-153.11	45.0	-210.6	168.8	156.2	12.57	13.433	
3,400.0	3,378.5	3,398.0	3,389.5	8.8	6.9	-152.93	47.5	-219.0	173.2	160.2	12.98	13.344	
3,500.0	3,477.8	3,497.9	3,489.0	9.0	7.1	-152.76	50.0	-227.3	177.5	164.1	13.39	13.260	
3,600.0	3,577.1	3,597.8	3,588.5	9.3	7.3	-152.60	52.5	-235.7	181.9	168.1	13.80	13.181	
3,700.0	3,676.3	3,697.7	3,688.1	9.6	7.6	-152.45	54.9	-244.0	186.3	172.0	14.21	13.107	
3,800.0	3,775.6	3,797.6	3,787.6	9.9	7.8	-152.30	57.4	-252.4	190.6	176.0	14.62	13.036	
3,900.0	3,874.9	3,897.5	3,887.1	10.1	8.0	-152.16	59.9	-260.7	195.0	180.0	15.04	12.969	
4,000.0	3,974.2	3,997.4	3,986.6	10.4	8.3	-152.02	62.3	-269.1	199.4	183.9	15.45	12.905	
4,100.0	4,073.4	4,097.3	4,086.2	10.7	8.5	-151.90	64.8	-277.5	203.8	187.9	15.86	12.844	
4,200.0	4,172.7	4,197.2	4,185.7	10.9	8.7	-151.77	67.3	-285.8	208.1	191.9	16.28	12.786	
4,300.0	4,272.0	4,297.1	4,285.2	11.2	8.9	-151.66	69.8	-294.2	212.5	195.8	16.69	12.731	
4,400.0	4,371.3	4,397.0	4,384.7	11.5	9.2	-151.54	72.2	-302.5	216.9	199.8	17.11	12.679	
4,500.0	4,470.5	4,496.9	4,484.2	11.8	9.4	-151.43	74.7	-310.9	221.3	203.7	17.52	12.629	
4,600.0	4,569.8	4,596.8	4,583.8	12.0	9.6	-151.33	77.2	-319.3	225.6	207.7	17.94	12.581	
4,700.0	4,669.1	4,696.7	4,683.3	12.3	9.9	-151.23	79.7	-327.6	230.0	211.7	18.35	12.535	
4,800.0	4,768.4	4,796.7	4,782.8	12.6	10.1	-151.13	82.1	-336.0	234.4	215.6	18.77	12.491	
4,900.0	4,867.7	4,896.6	4,882.3	12.9	10.3	-151.04	84.6	-344.3	238.8	219.6	19.18	12.448	
5,000.0	4,966.9	4,996.5	4,981.9	13.1	10.6	-150.95	87.1	-352.7	243.2	223.6	19.60	12.408	

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

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,066.2	5,096.4	5,081.4	13.4	10.8	-150.86	89.5	-361.1	247.6	227.5	20.01	12.369	
5,200.0	5,165.5	5,196.3	5,180.9	13.7	11.0	-150.78	92.0	-369.4	251.9	231.5	20.43	12.332	
5,300.0	5,264.8	5,296.2	5,280.4	14.0	11.2	-150.70	94.5	-377.8	256.3	235.5	20.85	12.296	
5,400.0	5,364.0	5,396.1	5,379.9	14.2	11.5	-150.62	97.0	-386.1	260.7	239.4	21.26	12.261	
5,500.0	5,463.3	5,496.0	5,479.5	14.5	11.7	-150.55	99.4	-394.5	265.1	243.4	21.68	12.228	
5,600.0	5,562.6	5,595.9	5,579.0	14.8	11.9	-150.47	101.9	-402.9	269.5	247.4	22.10	12.196	
5,700.0	5,661.9	5,695.8	5,678.5	15.0	12.2	-150.40	104.4	-411.2	273.9	251.4	22.51	12.165	
5,800.0	5,761.1	5,795.7	5,778.0	15.3	12.4	-150.33	106.8	-419.6	278.3	255.3	22.93	12.135	
5,900.0	5,860.4	5,895.6	5,877.6	15.6	12.6	-150.27	109.3	-427.9	282.6	259.3	23.35	12.106	
6,000.0	5,959.7	5,995.5	5,977.1	15.9	12.9	-150.20	111.8	-436.3	287.0	263.3	23.76	12.078	
6,100.0	6,059.0	6,095.4	6,076.6	16.1	13.1	-150.14	114.3	-444.7	291.4	267.2	24.18	12.051	
6,200.0	6,158.2	6,195.3	6,176.1	16.4	13.3	-150.08	116.7	-453.0	295.8	271.2	24.60	12.025	
6,300.0	6,257.5	6,293.5	6,273.9	16.7	13.5	-150.04	119.1	-461.1	300.3	275.3	25.01	12.006	
6,400.0	6,356.8	6,386.4	6,366.7	17.0	13.7	-150.29	120.8	-466.7	306.4	281.0	25.35	12.087	
6,500.0	6,456.1	6,479.0	6,459.2	17.2	13.9	-150.93	121.6	-469.4	314.7	289.1	25.61	12.290	
6,600.0	6,555.4	6,575.1	6,555.3	17.5	14.0	-151.88	121.6	-469.8	325.1	299.2	25.83	12.585	
6,700.0	6,654.6	6,674.4	6,654.6	17.8	14.1	-152.76	121.4	-470.2	335.7	309.6	26.06	12.880	
6,800.0	6,753.9	6,773.7	6,754.0	18.1	14.3	-153.53	121.0	-470.9	346.4	320.1	26.32	13.163	
6,900.0	6,853.2	6,873.1	6,853.3	18.3	14.4	-154.22	120.5	-471.8	357.2	330.6	26.58	13.437	
7,000.0	6,952.5	6,972.4	6,952.6	18.6	14.6	-154.87	119.9	-472.7	368.0	341.2	26.85	13.705	
7,100.0	7,051.7	7,071.7	7,051.9	18.9	14.7	-155.49	119.4	-473.6	378.9	351.8	27.13	13.966	
7,200.0	7,151.0	7,171.1	7,151.2	19.2	14.9	-156.07	118.9	-474.5	389.8	362.4	27.41	14.222	
7,300.0	7,250.3	7,270.4	7,250.6	19.4	15.0	-156.62	118.4	-475.4	400.8	373.1	27.69	14.471	
7,400.0	7,349.8	7,369.9	7,350.1	19.7	15.2	-157.11	117.9	-476.3	410.0	382.0	27.99	14.650	
7,500.0	7,449.5	7,469.7	7,449.9	19.8	15.4	-157.37	117.4	-477.2	416.0	387.8	28.29	14.709	
7,600.0	7,549.5	7,569.7	7,549.8	20.0	15.5	-157.41	116.9	-478.0	418.9	390.3	28.59	14.652	
7,700.0	7,649.5	7,669.7	7,649.8	20.1	15.7	-94.55	116.3	-478.9	419.1	390.1	28.92	14.491	
7,800.0	7,749.5	7,769.7	7,749.8	20.2	15.8	-94.47	115.8	-479.8	419.0	389.8	29.26	14.318	
7,873.7	7,823.1	7,843.3	7,823.5	20.3	15.9	-94.46	115.4	-480.5	419.0	389.5	29.52	14.196	
7,900.0	7,849.5	7,869.7	7,849.8	20.3	16.0	-94.46	115.3	-480.7	419.0	389.4	29.61	14.154	
8,000.0	7,949.5	7,969.7	7,949.8	20.5	16.1	-94.50	114.8	-481.6	419.0	389.1	29.94	13.996	
8,100.0	8,049.5	8,069.7	8,049.8	20.6	16.3	-94.57	114.3	-482.5	419.1	388.8	30.27	13.844	
8,200.0	8,149.4	8,169.7	8,149.8	20.7	16.4	-94.64	113.8	-483.4	419.1	388.5	30.61	13.695	
8,300.0	8,249.4	8,269.7	8,249.8	20.8	16.6	-94.71	113.2	-484.3	419.2	388.2	30.94	13.549	
8,400.0	8,349.4	8,369.6	8,349.8	21.0	16.8	-94.78	112.7	-485.2	419.2	387.9	31.27	13.406	
8,500.0	8,449.4	8,469.6	8,449.8	21.1	16.9	-94.85	112.2	-486.1	419.3	387.7	31.60	13.266	
8,600.0	8,549.4	8,569.6	8,549.8	21.2	17.1	-94.92	111.7	-487.0	419.3	387.4	31.94	13.129	
8,700.0	8,649.4	8,669.6	8,649.8	21.4	17.2	-94.99	111.2	-487.9	419.4	387.1	32.27	12.994	
8,800.0	8,749.4	8,769.6	8,749.8	21.5	17.4	-95.07	110.7	-488.8	419.4	386.8	32.61	12.863	
8,900.0	8,849.4	8,869.6	8,849.7	21.6	17.6	-95.14	110.1	-489.7	419.4	386.5	32.94	12.733	
9,000.0	8,949.3	8,969.6	8,949.7	21.8	17.7	-95.21	109.6	-490.6	419.5	386.2	33.28	12.607	
9,100.0	9,049.3	9,069.6	9,049.7	21.9	17.9	-95.28	109.1	-491.5	419.5	385.9	33.61	12.482	
9,200.0	9,149.3	9,169.6	9,149.7	22.0	18.0	-95.35	108.6	-492.4	419.6	385.6	33.95	12.360	
9,300.0	9,249.3	9,269.6	9,249.7	22.2	18.2	-95.42	108.1	-493.3	419.6	385.4	34.28	12.241	
9,400.0	9,349.3	9,369.6	9,349.7	22.3	18.4	-95.49	107.5	-494.2	419.7	385.1	34.62	12.123	
9,500.0	9,449.3	9,469.6	9,449.7	22.4	18.5	-95.56	107.0	-495.1	419.7	384.8	34.96	12.008	
9,600.0	9,549.3	9,569.6	9,549.7	22.6	18.7	-95.63	106.5	-496.0	419.8	384.5	35.29	11.895	
9,700.0	9,649.3	9,669.6	9,649.7	22.7	18.8	-95.70	106.0	-496.8	419.8	384.2	35.63	11.784	
9,800.0	9,749.3	9,769.6	9,749.7	22.9	19.0	-95.77	105.5	-497.7	419.9	383.9	35.97	11.675	
9,900.0	9,849.2	9,869.6	9,849.7	23.0	19.2	-95.84	105.0	-498.6	420.0	383.7	36.30	11.568	
10,000.0	9,949.2	9,969.6	9,949.7	23.1	19.3	-95.91	104.4	-499.5	420.0	383.4	36.64	11.463	
10,100.0	10,049.2	10,069.6	10,049.7	23.3	19.5	-95.98	103.9	-500.4	420.1	383.1	36.98	11.360	

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

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,200.0	10,149.2	10,169.6	10,149.7	23.4	19.7	-96.05	103.4	-501.3	420.1	382.8	37.32	11.258	
10,300.0	10,249.2	10,269.6	10,249.6	23.6	19.8	-96.12	102.9	-502.2	420.2	382.5	37.65	11.159	
10,390.8	10,340.0	10,360.4	10,340.5	23.7	20.0	-96.19	102.4	-503.0	420.2	382.3	37.96	11.070	SF

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-106.86	-4.4	-14.4	15.0				
100.0	100.0	100.0	100.0	0.1	0.2	-106.86	-4.4	-14.4	15.0	14.7	0.29	51.240	
200.0	200.0	200.0	200.0	0.3	0.3	-106.86	-4.4	-14.4	15.0	14.4	0.64	23.392	
300.0	300.0	299.8	299.8	0.5	0.5	-61.90	-6.1	-14.1	14.4	13.4	1.00	14.472	
316.5	316.5	316.3	316.2	0.5	0.5	-66.42	-6.7	-14.0	14.4	13.3	1.06	13.573	CC, ES
400.0	399.8	399.1	398.9	0.7	0.7	-96.51	-11.2	-13.2	16.7	15.3	1.37	12.152	SF
500.0	499.5	498.4	498.0	0.9	0.9	-121.63	-17.3	-13.5	25.9	24.1	1.74	14.869	
600.0	598.8	598.1	597.5	1.2	1.1	-131.52	-22.2	-17.1	37.5	35.4	2.13	17.610	
700.0	698.0	698.2	697.3	1.4	1.3	-133.71	-25.7	-23.8	47.9	45.4	2.54	18.831	
800.0	797.3	797.7	796.5	1.7	1.5	-134.13	-28.7	-31.6	57.7	54.7	2.97	19.407	
900.0	896.6	897.2	895.7	2.0	1.7	-134.43	-31.7	-39.4	67.5	64.1	3.41	19.802	
1,000.0	995.9	996.7	994.8	2.2	1.9	-134.65	-34.7	-47.1	77.3	73.5	3.85	20.086	
1,100.0	1,095.2	1,096.3	1,094.0	2.5	2.1	-134.82	-37.7	-54.9	87.1	82.8	4.29	20.298	
1,200.0	1,194.4	1,195.8	1,193.2	2.8	2.4	-134.96	-40.8	-62.7	96.9	92.2	4.74	20.462	
1,300.0	1,293.7	1,295.3	1,292.4	3.0	2.6	-135.07	-43.8	-70.5	106.7	101.5	5.18	20.593	
1,400.0	1,393.0	1,394.8	1,391.5	3.3	2.8	-135.17	-46.8	-78.3	116.5	110.9	5.63	20.698	
1,500.0	1,492.3	1,494.3	1,490.7	3.6	3.0	-135.25	-49.8	-86.1	126.3	120.2	6.08	20.785	
1,600.0	1,591.5	1,593.8	1,589.9	3.8	3.2	-135.31	-52.8	-93.8	136.1	129.6	6.53	20.858	
1,700.0	1,690.8	1,693.4	1,689.0	4.1	3.5	-135.37	-55.8	-101.6	145.9	138.9	6.97	20.919	
1,800.0	1,790.1	1,792.9	1,788.2	4.4	3.7	-135.42	-58.9	-109.4	155.7	148.3	7.42	20.973	
1,900.0	1,889.4	1,892.4	1,887.4	4.7	3.9	-135.47	-61.9	-117.2	165.5	157.6	7.87	21.019	
2,000.0	1,988.6	1,991.9	1,986.5	4.9	4.1	-135.51	-64.9	-125.0	175.3	167.0	8.32	21.059	
2,100.0	2,087.9	2,091.4	2,085.7	5.2	4.4	-135.55	-67.9	-132.7	185.1	176.3	8.78	21.094	
2,200.0	2,187.2	2,191.0	2,184.9	5.5	4.6	-135.58	-70.9	-140.5	194.9	185.7	9.23	21.126	
2,300.0	2,286.5	2,290.5	2,284.0	5.8	4.8	-135.61	-74.0	-148.3	204.7	195.0	9.68	21.154	
2,400.0	2,385.7	2,390.0	2,383.2	6.0	5.0	-135.63	-77.0	-156.1	214.5	204.4	10.13	21.179	
2,500.0	2,485.0	2,489.5	2,482.4	6.3	5.3	-135.66	-80.0	-163.9	224.3	213.7	10.58	21.202	
2,600.0	2,584.3	2,589.0	2,581.5	6.6	5.5	-135.68	-83.0	-171.7	234.1	223.1	11.03	21.223	
2,700.0	2,683.6	2,688.5	2,680.7	6.8	5.7	-135.70	-86.0	-179.4	243.9	232.4	11.48	21.242	
2,800.0	2,782.8	2,788.1	2,779.9	7.1	5.9	-135.72	-89.0	-187.2	253.7	241.8	11.93	21.259	
2,900.0	2,882.1	2,887.6	2,879.0	7.4	6.2	-135.74	-92.1	-195.0	263.5	251.1	12.39	21.275	
3,000.0	2,981.4	2,987.1	2,978.2	7.7	6.4	-135.75	-95.1	-202.8	273.3	260.5	12.84	21.290	
3,100.0	3,080.7	3,086.6	3,077.4	7.9	6.6	-135.77	-98.1	-210.6	283.1	269.8	13.29	21.303	
3,200.0	3,180.0	3,186.1	3,176.5	8.2	6.8	-135.78	-101.1	-218.4	292.9	279.2	13.74	21.316	
3,300.0	3,279.2	3,285.7	3,275.7	8.5	7.1	-135.79	-104.1	-226.1	302.7	288.5	14.19	21.328	
3,400.0	3,378.5	3,385.2	3,374.9	8.8	7.3	-135.81	-107.1	-233.9	312.5	297.9	14.65	21.339	
3,500.0	3,477.8	3,484.7	3,474.0	9.0	7.5	-135.82	-110.2	-241.7	322.3	307.2	15.10	21.349	
3,600.0	3,577.1	3,584.2	3,573.2	9.3	7.7	-135.83	-113.2	-249.5	332.1	316.6	15.55	21.358	
3,700.0	3,676.3	3,683.7	3,672.4	9.6	8.0	-135.84	-116.2	-257.3	341.9	325.9	16.00	21.367	
3,800.0	3,775.6	3,783.3	3,771.5	9.9	8.2	-135.85	-119.2	-265.0	351.7	335.3	16.45	21.376	
3,900.0	3,874.9	3,882.8	3,870.7	10.1	8.4	-135.86	-122.2	-272.8	361.5	344.6	16.91	21.384	
4,000.0	3,974.2	3,982.3	3,969.9	10.4	8.7	-135.87	-125.2	-280.6	371.3	354.0	17.36	21.391	
4,100.0	4,073.4	4,081.8	4,069.1	10.7	8.9	-135.87	-128.3	-288.4	381.1	363.3	17.81	21.398	
4,200.0	4,172.7	4,181.3	4,168.2	10.9	9.1	-135.88	-131.3	-296.2	390.9	372.7	18.26	21.405	
4,300.0	4,272.0	4,280.8	4,267.4	11.2	9.3	-135.89	-134.3	-304.0	400.7	382.0	18.72	21.411	
4,400.0	4,371.3	4,380.4	4,366.6	11.5	9.6	-135.90	-137.3	-311.7	410.5	391.4	19.17	21.417	
4,500.0	4,470.5	4,479.9	4,465.7	11.8	9.8	-135.90	-140.3	-319.5	420.3	400.7	19.62	21.423	
4,600.0	4,569.8	4,579.4	4,564.9	12.0	10.0	-135.91	-143.3	-327.3	430.1	410.1	20.07	21.428	
4,700.0	4,669.1	4,678.9	4,664.1	12.3	10.2	-135.92	-146.4	-335.1	439.9	419.4	20.53	21.433	
4,800.0	4,768.4	4,778.4	4,763.2	12.6	10.5	-135.92	-149.4	-342.9	449.7	428.8	20.98	21.438	
4,900.0	4,867.7	4,878.0	4,862.4	12.9	10.7	-135.93	-152.4	-350.7	459.5	438.1	21.43	21.443	
5,000.0	4,966.9	4,977.5	4,961.6	13.1	10.9	-135.93	-155.4	-358.4	469.4	447.5	21.88	21.447	

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

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,066.2	5,077.0	5,060.7	13.4	11.1	-135.94	-158.4	-366.2	479.2	456.8	22.34	21.452	
5,200.0	5,165.5	5,176.5	5,159.9	13.7	11.4	-135.94	-161.4	-374.0	489.0	466.2	22.79	21.456	
5,300.0	5,264.8	5,276.0	5,259.1	14.0	11.6	-135.95	-164.5	-381.8	498.8	475.5	23.24	21.460	
5,400.0	5,364.0	5,375.5	5,358.2	14.2	11.8	-135.95	-167.5	-389.6	508.6	484.9	23.69	21.463	
5,500.0	5,463.3	5,475.1	5,457.4	14.5	12.1	-135.96	-170.5	-397.4	518.4	494.2	24.15	21.467	
5,600.0	5,562.6	5,574.6	5,556.6	14.8	12.3	-135.96	-173.5	-405.1	528.2	503.6	24.60	21.471	
5,700.0	5,661.9	5,674.1	5,655.7	15.0	12.5	-135.96	-176.5	-412.9	538.0	512.9	25.05	21.474	
5,800.0	5,761.1	5,773.6	5,754.9	15.3	12.7	-135.97	-179.6	-420.7	547.8	522.3	25.50	21.477	
5,900.0	5,860.4	5,873.1	5,854.1	15.6	13.0	-135.97	-182.6	-428.5	557.6	531.6	25.96	21.480	
6,000.0	5,959.7	5,972.7	5,953.2	15.9	13.2	-135.98	-185.6	-436.3	567.4	541.0	26.41	21.483	
6,100.0	6,059.0	6,072.2	6,052.4	16.1	13.4	-135.98	-188.6	-444.0	577.2	550.3	26.86	21.486	
6,200.0	6,158.2	6,171.7	6,151.6	16.4	13.6	-135.98	-191.6	-451.8	587.0	559.7	27.31	21.489	
6,300.0	6,257.5	6,271.2	6,250.7	16.7	13.9	-135.99	-194.6	-459.6	596.8	569.0	27.77	21.492	
6,400.0	6,356.8	6,373.4	6,352.6	17.0	14.1	-136.13	-197.2	-466.2	606.4	578.2	28.18	21.518	
6,500.0	6,456.1	6,475.6	6,454.9	17.2	14.2	-136.61	-198.4	-469.4	615.5	587.0	28.53	21.578	
6,600.0	6,555.4	6,575.7	6,555.0	17.5	14.4	-137.33	-198.6	-469.8	624.4	595.6	28.83	21.658	
6,700.0	6,654.6	6,674.3	6,653.6	17.8	14.5	-138.02	-198.8	-470.2	633.4	604.3	29.14	21.740	
6,800.0	6,753.9	6,773.1	6,752.3	18.1	14.7	-138.66	-199.2	-470.9	642.6	613.2	29.45	21.824	
6,900.0	6,853.2	6,872.4	6,851.6	18.3	14.8	-139.27	-199.8	-471.8	652.0	622.2	29.76	21.908	
7,000.0	6,952.5	6,971.8	6,951.0	18.6	15.0	-139.86	-200.3	-472.7	661.4	631.3	30.07	21.993	
7,100.0	7,051.7	7,071.1	7,050.3	18.9	15.1	-140.43	-200.8	-473.6	670.8	640.4	30.38	22.078	
7,200.0	7,151.0	7,170.4	7,149.6	19.2	15.3	-140.99	-201.3	-474.5	680.4	649.7	30.70	22.165	
7,300.0	7,250.3	7,269.7	7,248.9	19.4	15.4	-141.54	-201.8	-475.3	690.0	658.9	31.01	22.251	
7,400.0	7,349.8	7,369.3	7,348.4	19.7	15.6	-142.07	-202.3	-476.2	698.1	666.8	31.32	22.289	
7,500.0	7,449.5	7,469.1	7,448.2	19.8	15.7	-142.39	-202.8	-477.1	703.6	671.9	31.62	22.248	
7,600.0	7,549.5	7,569.0	7,548.2	20.0	15.9	-142.50	-203.3	-478.0	706.3	674.3	31.92	22.129	
7,700.0	7,649.5	7,669.0	7,648.2	20.1	16.0	-79.69	-203.8	-478.9	706.6	674.4	32.22	21.934	
7,800.0	7,749.5	7,769.0	7,748.2	20.2	16.2	-79.64	-204.4	-479.8	706.7	674.2	32.53	21.728	
7,900.0	7,849.5	7,869.0	7,848.2	20.3	16.3	-79.63	-204.9	-480.7	706.8	673.9	32.84	21.522	
8,000.0	7,949.5	7,969.0	7,948.2	20.5	16.5	-79.66	-205.4	-481.6	706.7	673.6	33.15	21.316	
8,100.0	8,049.5	8,069.0	8,048.2	20.6	16.7	-79.70	-205.9	-482.5	706.6	673.1	33.47	21.114	
8,200.0	8,149.4	8,169.0	8,148.2	20.7	16.8	-79.74	-206.4	-483.4	706.5	672.7	33.78	20.916	
8,300.0	8,249.4	8,269.0	8,248.1	20.8	17.0	-79.78	-206.9	-484.2	706.4	672.3	34.09	20.720	
8,400.0	8,349.4	8,369.0	8,348.1	21.0	17.1	-79.83	-207.4	-485.1	706.3	671.9	34.41	20.528	
8,500.0	8,449.4	8,469.0	8,448.1	21.1	17.3	-79.87	-207.9	-486.0	706.2	671.5	34.72	20.338	
8,600.0	8,549.4	8,569.0	8,548.1	21.2	17.4	-79.91	-208.5	-486.9	706.2	671.1	35.04	20.152	
8,700.0	8,649.4	8,669.0	8,648.1	21.4	17.6	-79.95	-209.0	-487.8	706.1	670.7	35.36	19.969	
8,800.0	8,749.4	8,769.0	8,748.1	21.5	17.8	-79.99	-209.5	-488.7	706.0	670.3	35.68	19.789	
8,900.0	8,849.4	8,869.0	8,848.1	21.6	17.9	-80.04	-210.0	-489.6	705.9	669.9	35.99	19.611	
9,000.0	8,949.3	8,969.0	8,948.1	21.8	18.1	-80.08	-210.5	-490.5	705.8	669.5	36.31	19.436	
9,100.0	9,049.3	9,069.0	9,048.1	21.9	18.2	-80.12	-211.0	-491.4	705.7	669.1	36.63	19.264	
9,200.0	9,149.3	9,169.0	9,148.1	22.0	18.4	-80.16	-211.5	-492.3	705.6	668.7	36.95	19.095	
9,300.0	9,249.3	9,269.0	9,248.1	22.2	18.6	-80.20	-212.0	-493.1	705.5	668.2	37.27	18.929	
9,400.0	9,349.3	9,369.0	9,348.1	22.3	18.7	-80.25	-212.6	-494.0	705.4	667.8	37.59	18.764	
9,500.0	9,449.3	9,469.0	9,448.1	22.4	18.9	-80.29	-213.1	-494.9	705.3	667.4	37.92	18.603	
9,600.0	9,549.3	9,569.0	9,548.1	22.6	19.0	-80.33	-213.6	-495.8	705.3	667.0	38.24	18.444	
9,700.0	9,649.3	9,669.0	9,648.1	22.7	19.2	-80.37	-214.1	-496.7	705.2	666.6	38.56	18.287	
9,800.0	9,749.3	9,769.0	9,748.0	22.9	19.4	-80.42	-214.6	-497.6	705.1	666.2	38.88	18.133	
9,900.0	9,849.2	9,869.0	9,848.0	23.0	19.5	-80.46	-215.1	-498.5	705.0	665.8	39.21	17.981	
10,000.0	9,949.2	9,969.0	9,948.0	23.1	19.7	-80.50	-215.6	-499.4	704.9	665.4	39.53	17.832	
10,100.0	10,049.2	10,069.0	10,048.0	23.3	19.9	-80.54	-216.2	-500.3	704.8	665.0	39.86	17.684	
10,200.0	10,149.2	10,169.0	10,148.0	23.4	20.0	-80.58	-216.7	-501.2	704.7	664.5	40.18	17.539	

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

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,300.0	10,249.2	10,269.0	10,248.0	23.6	20.2	-80.63	-217.2	-502.0	704.6	664.1	40.51	17.396	
10,390.8	10,340.0	10,359.8	10,338.8	23.7	20.3	-80.66	-217.6	-502.9	704.6	663.8	40.80	17.268	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 35-1D
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 35-1D	**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 #4	**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 35-1D
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.66°