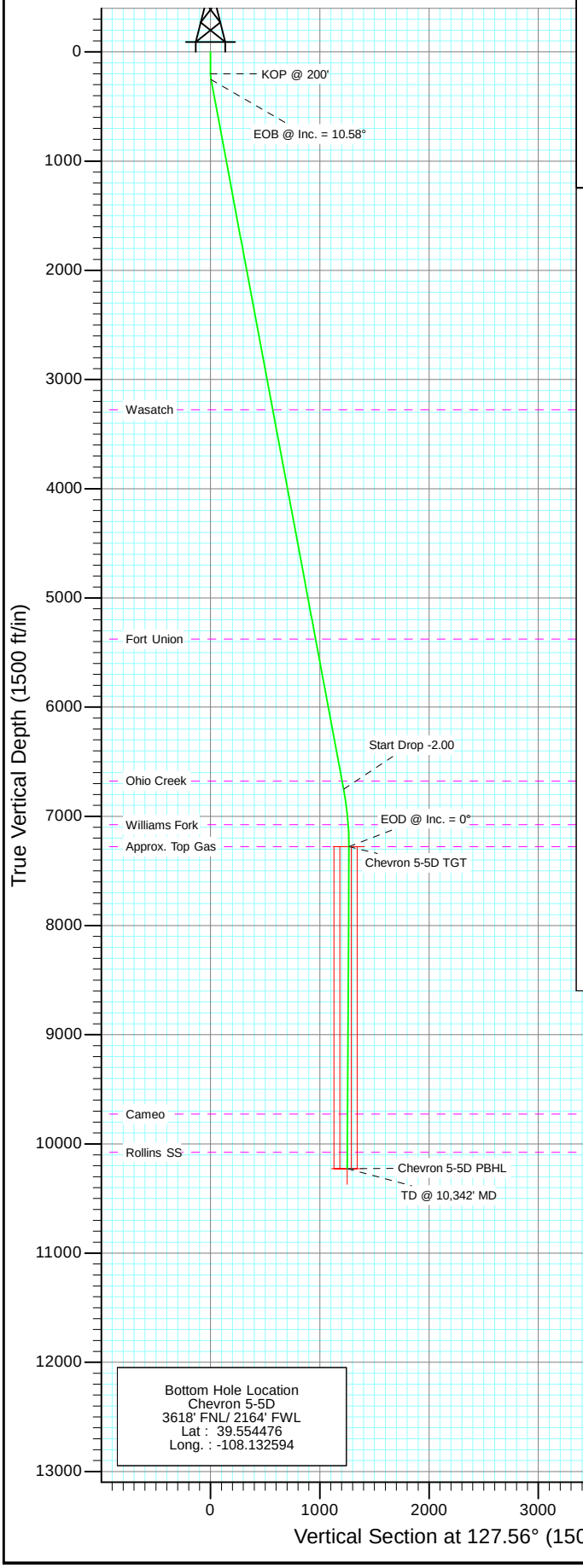
Berry Petroleum Company

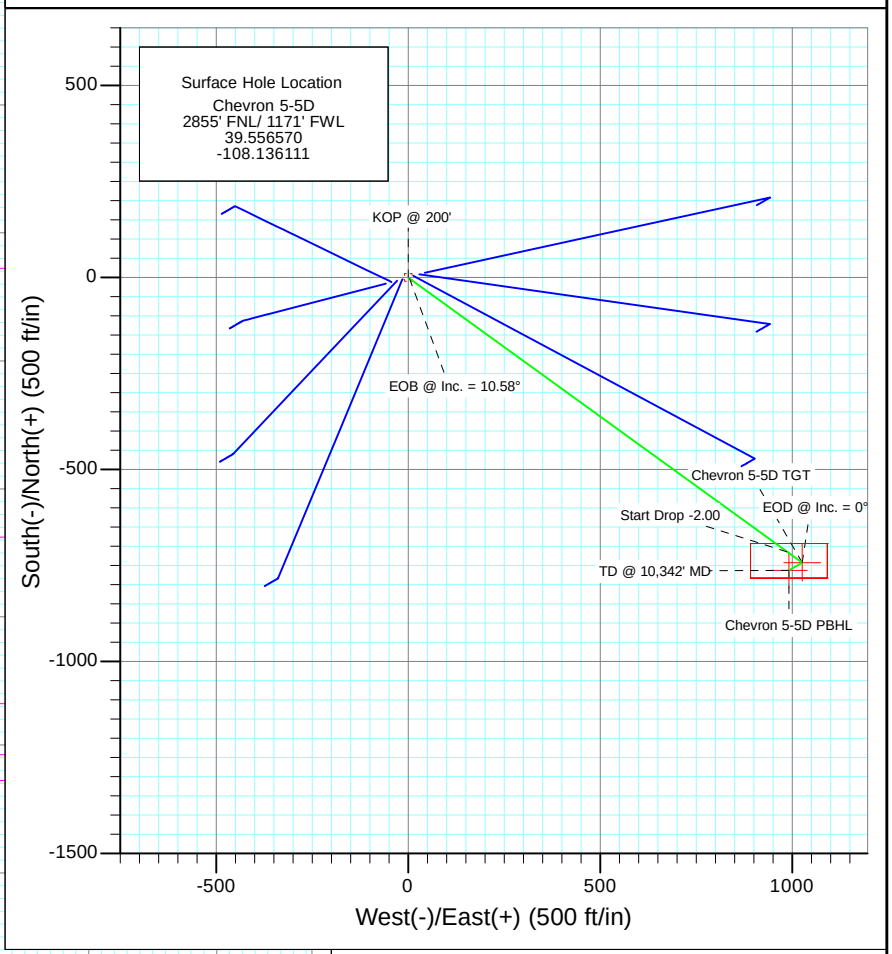
Project: Garfield County
Site: Chevron E05 696
Well: Chevron 5-5D
Wellbore: DD
Design: Plan #1

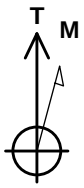
CATHEDRAL

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	252.9	10.58	125.89	252.6	-2.9	3.9	20.00	125.89	4.9	
4	6863.8	10.58	125.89	6751.2	-714.2	986.9	0.00	0.00	1217.7	
5	7392.6	0.00	0.00	7277.0	-742.7	1026.3	2.00	180.00	1266.3	Chevron 5-5D TGT
6	7722.0	0.82	240.02	7606.3	-743.9	1024.3	0.25	240.02	1265.4	
7	10342.9	0.82	240.02	10227.0	-762.7	991.7	0.00	0.00	1251.1	Chevron 5-5D PBHL







Azimuths to True North
Magnetic North: 10.48°

Magnetic Field
Strength: 52289.6snT
Dip Angle: 65.77°
Date: 1/13/2011
Model: IGRF2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3277.0	3329.6	Wasatch
5377.0	5465.9	Fort Union
6677.0	6788.3	Ohio Creek
7077.0	7192.4	Williams Fork
7277.0	7392.6	Approx. Top Gas
9727.0	9842.8	Cameo
10077.0	10192.9	Rollins SS

DESIGN DETAILS: Plan #1

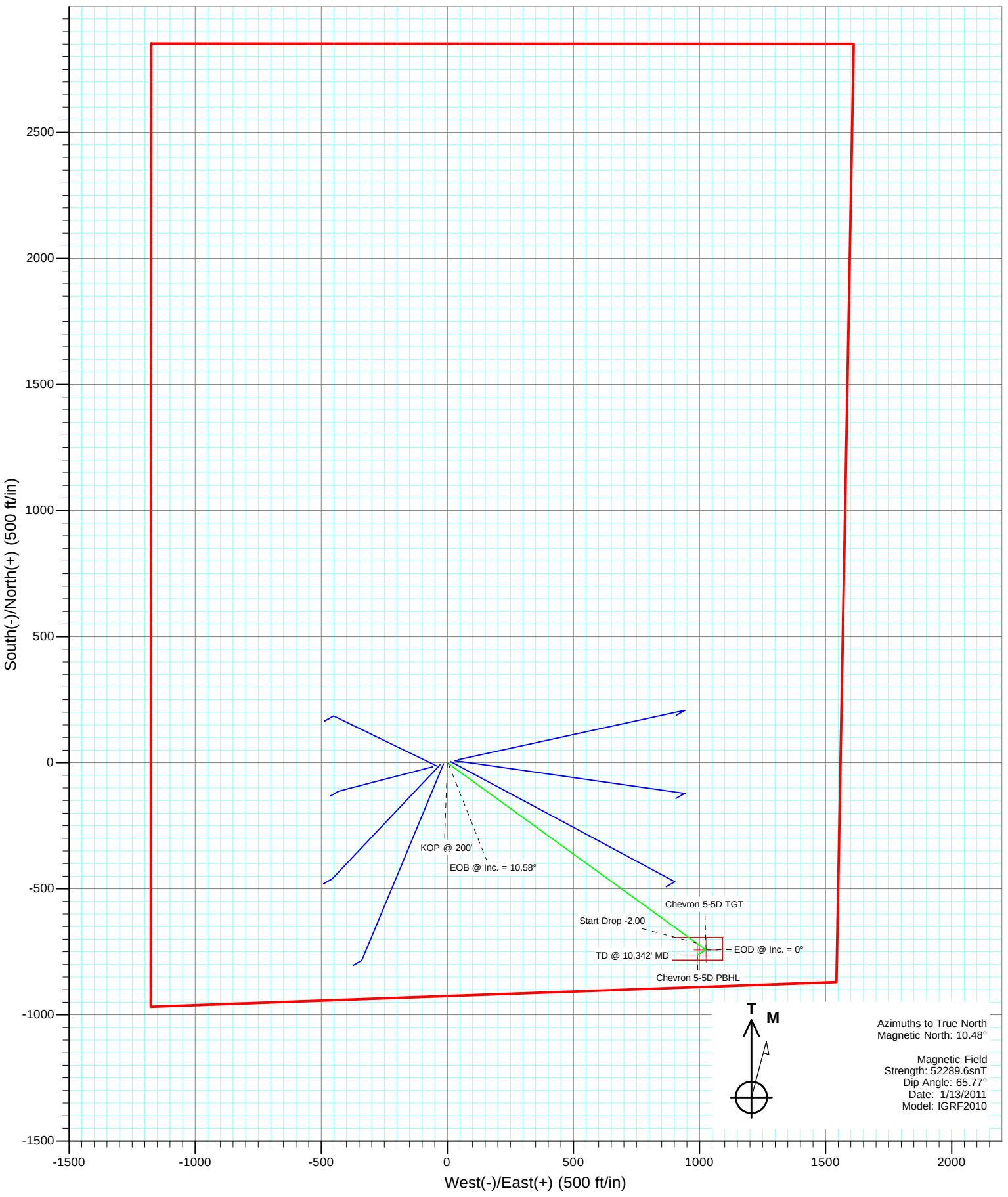
WELL @ 8144.0ft (Original Well Elev)

Target	Azimuth	Origin	N/S	E/W	From TVD
No Target (Freehand)	127.56	Slot	0.0	0.0	0.0

Berry Petroleum Company

Project: Garfield County
Site: Chevron E05 696
Well: Chevron 5-5D
Wellbore: DD
Design: Pad Layout

CATHEDRAL



Planning Report

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Company:	Berry Petroleum Company (NAD 83)	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Project:	Garfield County	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site:	Chevron E05 696	**North Reference:**	True
Well:	Chevron 5-5D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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 E05 696

Site Position:		**Northing:**	1,638,406.53 ft	**Latitude:**	39.556604
From:	Lat/Long	**Easting:**	2,256,881.00 ft	**Longitude:**	-108.135957
Position Uncertainty:	0.0 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	-1.66 °

Well Chevron 5-5D

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,638,395.41 ft	**Latitude:**	39.556570
	+E/-W	0.0 ft	**Easting:**	2,256,837.23 ft	**Longitude:**	-108.136111
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	8,124.0 ft

Wellbore DD

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/13/2011	10.48	65.77	52,290

Design Plan #1

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	127.56

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	
252.9	10.58	125.89	252.6	-2.9	3.9	20.00	20.00	0.00	125.89	
6,863.8	10.58	125.89	6,751.2	-714.2	986.9	0.00	0.00	0.00	0.00	
7,392.6	0.00	0.00	7,277.0	-742.7	1,026.3	2.00	-2.00	0.00	180.00	Chevron 5-5D TGT
7,722.0	0.82	240.02	7,606.3	-743.9	1,024.3	0.25	0.25	-36.43	240.02	
10,342.9	0.82	240.02	10,227.0	-762.7	991.7	0.00	0.00	0.00	0.00	Chevron 5-5D PBHL

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron 5-5D
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Project:	Garfield County	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site:	Chevron E05 696	**North Reference:**	True
Well:	Chevron 5-5D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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'
210.0	2.00	125.89	210.0	-0.1	0.1	0.2	20.00	20.00	
240.0	8.00	125.89	239.9	-1.6	2.3	2.8	20.00	20.00	
252.9	10.58	125.89	252.6	-2.9	3.9	4.9	20.00	20.00	EOB @ Inc. = 10.58°
270.0	10.58	125.89	269.4	-4.7	6.5	8.0	0.00	0.00	
300.0	10.58	125.89	298.9	-7.9	10.9	13.5	0.00	0.00	
330.0	10.58	125.89	328.4	-11.2	15.4	19.0	0.00	0.00	
360.0	10.58	125.89	357.9	-14.4	19.9	24.5	0.00	0.00	
390.0	10.58	125.89	387.4	-17.6	24.3	30.0	0.00	0.00	
420.0	10.58	125.89	416.9	-20.8	28.8	35.5	0.00	0.00	
450.0	10.58	125.89	446.4	-24.1	33.3	41.0	0.00	0.00	
480.0	10.58	125.89	475.8	-27.3	37.7	46.5	0.00	0.00	
510.0	10.58	125.89	505.3	-30.5	42.2	52.0	0.00	0.00	
540.0	10.58	125.89	534.8	-33.7	46.6	57.5	0.00	0.00	
570.0	10.58	125.89	564.3	-37.0	51.1	63.0	0.00	0.00	
600.0	10.58	125.89	593.8	-40.2	55.6	68.5	0.00	0.00	
630.0	10.58	125.89	623.3	-43.4	60.0	74.1	0.00	0.00	
660.0	10.58	125.89	652.8	-46.7	64.5	79.6	0.00	0.00	
690.0	10.58	125.89	682.3	-49.9	68.9	85.1	0.00	0.00	
720.0	10.58	125.89	711.8	-53.1	73.4	90.6	0.00	0.00	
750.0	10.58	125.89	741.3	-56.3	77.9	96.1	0.00	0.00	
780.0	10.58	125.89	770.7	-59.6	82.3	101.6	0.00	0.00	
810.0	10.58	125.89	800.2	-62.8	86.8	107.1	0.00	0.00	
840.0	10.58	125.89	829.7	-66.0	91.2	112.6	0.00	0.00	
870.0	10.58	125.89	859.2	-69.3	95.7	118.1	0.00	0.00	
900.0	10.58	125.89	888.7	-72.5	100.2	123.6	0.00	0.00	
930.0	10.58	125.89	918.2	-75.7	104.6	129.1	0.00	0.00	
960.0	10.58	125.89	947.7	-78.9	109.1	134.6	0.00	0.00	
990.0	10.58	125.89	977.2	-82.2	113.5	140.1	0.00	0.00	
1,020.0	10.58	125.89	1,006.7	-85.4	118.0	145.6	0.00	0.00	
1,050.0	10.58	125.89	1,036.2	-88.6	122.5	151.1	0.00	0.00	
1,080.0	10.58	125.89	1,065.6	-91.8	126.9	156.6	0.00	0.00	
1,110.0	10.58	125.89	1,095.1	-95.1	131.4	162.1	0.00	0.00	
1,140.0	10.58	125.89	1,124.6	-98.3	135.8	167.6	0.00	0.00	
1,170.0	10.58	125.89	1,154.1	-101.5	140.3	173.1	0.00	0.00	
1,200.0	10.58	125.89	1,183.6	-104.8	144.8	178.6	0.00	0.00	
1,230.0	10.58	125.89	1,213.1	-108.0	149.2	184.1	0.00	0.00	
1,260.0	10.58	125.89	1,242.6	-111.2	153.7	189.6	0.00	0.00	
1,290.0	10.58	125.89	1,272.1	-114.4	158.2	195.1	0.00	0.00	
1,320.0	10.58	125.89	1,301.6	-117.7	162.6	200.6	0.00	0.00	
1,350.0	10.58	125.89	1,331.1	-120.9	167.1	206.1	0.00	0.00	
1,380.0	10.58	125.89	1,360.6	-124.1	171.5	211.6	0.00	0.00	
1,410.0	10.58	125.89	1,390.0	-127.4	176.0	217.1	0.00	0.00	
1,440.0	10.58	125.89	1,419.5	-130.6	180.5	222.7	0.00	0.00	
1,470.0	10.58	125.89	1,449.0	-133.8	184.9	228.2	0.00	0.00	

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Well:	Chevron 5-5D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
1,500.0	10.58	125.89	1,478.5	-137.0	189.4	233.7	0.00	0.00	
1,530.0	10.58	125.89	1,508.0	-140.3	193.8	239.2	0.00	0.00	
1,560.0	10.58	125.89	1,537.5	-143.5	198.3	244.7	0.00	0.00	
1,590.0	10.58	125.89	1,567.0	-146.7	202.8	250.2	0.00	0.00	
1,620.0	10.58	125.89	1,596.5	-150.0	207.2	255.7	0.00	0.00	
1,650.0	10.58	125.89	1,626.0	-153.2	211.7	261.2	0.00	0.00	
1,680.0	10.58	125.89	1,655.5	-156.4	216.1	266.7	0.00	0.00	
1,710.0	10.58	125.89	1,684.9	-159.6	220.6	272.2	0.00	0.00	
1,740.0	10.58	125.89	1,714.4	-162.9	225.1	277.7	0.00	0.00	
1,770.0	10.58	125.89	1,743.9	-166.1	229.5	283.2	0.00	0.00	
1,800.0	10.58	125.89	1,773.4	-169.3	234.0	288.7	0.00	0.00	
1,830.0	10.58	125.89	1,802.9	-172.5	238.4	294.2	0.00	0.00	
1,860.0	10.58	125.89	1,832.4	-175.8	242.9	299.7	0.00	0.00	
1,890.0	10.58	125.89	1,861.9	-179.0	247.4	305.2	0.00	0.00	
1,920.0	10.58	125.89	1,891.4	-182.2	251.8	310.7	0.00	0.00	
1,950.0	10.58	125.89	1,920.9	-185.5	256.3	316.2	0.00	0.00	
1,980.0	10.58	125.89	1,950.4	-188.7	260.7	321.7	0.00	0.00	
2,010.0	10.58	125.89	1,979.9	-191.9	265.2	327.2	0.00	0.00	
2,040.0	10.58	125.89	2,009.3	-195.1	269.7	332.7	0.00	0.00	
2,070.0	10.58	125.89	2,038.8	-198.4	274.1	338.2	0.00	0.00	
2,100.0	10.58	125.89	2,068.3	-201.6	278.6	343.7	0.00	0.00	
2,130.0	10.58	125.89	2,097.8	-204.8	283.1	349.2	0.00	0.00	
2,160.0	10.58	125.89	2,127.3	-208.1	287.5	354.7	0.00	0.00	
2,190.0	10.58	125.89	2,156.8	-211.3	292.0	360.2	0.00	0.00	
2,220.0	10.58	125.89	2,186.3	-214.5	296.4	365.8	0.00	0.00	
2,250.0	10.58	125.89	2,215.8	-217.7	300.9	371.3	0.00	0.00	
2,280.0	10.58	125.89	2,245.3	-221.0	305.4	376.8	0.00	0.00	
2,310.0	10.58	125.89	2,274.8	-224.2	309.8	382.3	0.00	0.00	
2,340.0	10.58	125.89	2,304.2	-227.4	314.3	387.8	0.00	0.00	
2,370.0	10.58	125.89	2,333.7	-230.6	318.7	393.3	0.00	0.00	
2,400.0	10.58	125.89	2,363.2	-233.9	323.2	398.8	0.00	0.00	
2,430.0	10.58	125.89	2,392.7	-237.1	327.7	404.3	0.00	0.00	
2,460.0	10.58	125.89	2,422.2	-240.3	332.1	409.8	0.00	0.00	
2,490.0	10.58	125.89	2,451.7	-243.6	336.6	415.3	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 5-5D TGT	0.00	0.00	7,277.0	-742.7	1,026.3	1,637,623.24	2,257,841.60	39.554531	-108.132471
- plan misses target center by 4899.8ft at 2490.0ft MD (2451.7 TVD, -243.6 N, 336.6 E)									
- Point									
Chevron 5-5D PBHL	0.00	0.00	10,227.0	-762.7	991.7	1,637,604.25	2,257,806.36	39.554476	-108.132594
- plan misses target center by 7820.1ft at 2490.0ft MD (2451.7 TVD, -243.6 N, 336.6 E)									
- Polygon									
Point 1			10,227.0	70.0	-100.0	1,637,677.12	2,257,708.44		
Point 2			10,227.0	70.0	100.0	1,637,671.32	2,257,908.35		
Point 3			10,227.0	-20.0	100.0	1,637,581.36	2,257,905.74		
Point 4			10,227.0	-20.0	-100.0	1,637,587.16	2,257,705.83		

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Wellbore:	DD		
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Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
2,500.0	10.58	125.89	2,461.5	-244.6	338.1	417.1	0.00	0.00	
2,600.0	10.58	125.89	2,559.8	-255.4	352.9	435.5	0.00	0.00	
2,700.0	10.58	125.89	2,658.1	-266.2	367.8	453.8	0.00	0.00	
2,800.0	10.58	125.89	2,756.4	-276.9	382.7	472.2	0.00	0.00	
2,900.0	10.58	125.89	2,854.7	-287.7	397.5	490.5	0.00	0.00	
3,000.0	10.58	125.89	2,953.0	-298.4	412.4	508.8	0.00	0.00	
3,100.0	10.58	125.89	3,051.3	-309.2	427.3	527.2	0.00	0.00	
3,200.0	10.58	125.89	3,149.6	-320.0	442.2	545.5	0.00	0.00	
3,300.0	10.58	125.89	3,247.9	-330.7	457.0	563.9	0.00	0.00	
3,329.6	10.58	125.89	3,277.0	-333.9	461.4	569.3	0.00	0.00	Wasatch
3,400.0	10.58	125.89	3,346.2	-341.5	471.9	582.2	0.00	0.00	
3,500.0	10.58	125.89	3,444.5	-352.2	486.8	600.6	0.00	0.00	
3,600.0	10.58	125.89	3,542.8	-363.0	501.6	618.9	0.00	0.00	
3,700.0	10.58	125.89	3,641.1	-373.8	516.5	637.3	0.00	0.00	
3,800.0	10.58	125.89	3,739.4	-384.5	531.4	655.6	0.00	0.00	
3,900.0	10.58	125.89	3,837.7	-395.3	546.2	674.0	0.00	0.00	
4,000.0	10.58	125.89	3,936.0	-406.0	561.1	692.3	0.00	0.00	
4,100.0	10.58	125.89	4,034.3	-416.8	576.0	710.7	0.00	0.00	
4,200.0	10.58	125.89	4,132.6	-427.6	590.8	729.0	0.00	0.00	
4,300.0	10.58	125.89	4,231.0	-438.3	605.7	747.3	0.00	0.00	
4,400.0	10.58	125.89	4,329.3	-449.1	620.6	765.7	0.00	0.00	
4,500.0	10.58	125.89	4,427.6	-459.8	635.4	784.0	0.00	0.00	
4,600.0	10.58	125.89	4,525.9	-470.6	650.3	802.4	0.00	0.00	
4,700.0	10.58	125.89	4,624.2	-481.4	665.2	820.7	0.00	0.00	
4,800.0	10.58	125.89	4,722.5	-492.1	680.1	839.1	0.00	0.00	
4,900.0	10.58	125.89	4,820.8	-502.9	694.9	857.4	0.00	0.00	
5,000.0	10.58	125.89	4,919.1	-513.6	709.8	875.8	0.00	0.00	
5,100.0	10.58	125.89	5,017.4	-524.4	724.7	894.1	0.00	0.00	
5,200.0	10.58	125.89	5,115.7	-535.1	739.5	912.5	0.00	0.00	
5,300.0	10.58	125.89	5,214.0	-545.9	754.4	930.8	0.00	0.00	
5,400.0	10.58	125.89	5,312.3	-556.7	769.3	949.2	0.00	0.00	
5,465.9	10.58	125.89	5,377.0	-563.8	779.1	961.2	0.00	0.00	Fort Union
5,500.0	10.58	125.89	5,410.6	-567.4	784.1	967.5	0.00	0.00	
5,600.0	10.58	125.89	5,508.9	-578.2	799.0	985.8	0.00	0.00	
5,700.0	10.58	125.89	5,607.2	-588.9	813.9	1,004.2	0.00	0.00	
5,800.0	10.58	125.89	5,705.5	-599.7	828.7	1,022.5	0.00	0.00	
5,900.0	10.58	125.89	5,803.8	-610.5	843.6	1,040.9	0.00	0.00	
6,000.0	10.58	125.89	5,902.1	-621.2	858.5	1,059.2	0.00	0.00	
6,100.0	10.58	125.89	6,000.4	-632.0	873.4	1,077.6	0.00	0.00	
6,200.0	10.58	125.89	6,098.7	-642.7	888.2	1,095.9	0.00	0.00	
6,300.0	10.58	125.89	6,197.0	-653.5	903.1	1,114.3	0.00	0.00	
6,400.0	10.58	125.89	6,295.3	-664.3	918.0	1,132.6	0.00	0.00	
6,500.0	10.58	125.89	6,393.6	-675.0	932.8	1,151.0	0.00	0.00	
6,600.0	10.58	125.89	6,491.9	-685.8	947.7	1,169.3	0.00	0.00	
6,700.0	10.58	125.89	6,590.2	-696.5	962.6	1,187.6	0.00	0.00	
6,788.3	10.58	125.89	6,677.0	-706.0	975.7	1,203.9	0.00	0.00	Ohio Creek
6,800.0	10.58	125.89	6,688.5	-707.3	977.4	1,206.0	0.00	0.00	
6,863.8	10.58	125.89	6,751.2	-714.2	986.9	1,217.7	0.00	0.00	Start Drop -2.00
6,900.0	9.85	125.89	6,786.8	-717.9	992.1	1,224.1	2.00	-2.00	
7,000.0	7.85	125.89	6,885.6	-727.0	1,004.6	1,239.5	2.00	-2.00	
7,100.0	5.85	125.89	6,984.9	-733.9	1,014.3	1,251.4	2.00	-2.00	
7,192.4	4.00	125.89	7,077.0	-738.6	1,020.7	1,259.4	2.00	-2.00	Williams Fork

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Company:	Berry Petroleum Company (NAD 83)	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Project:	Garfield County	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site:	Chevron E05 696	**North Reference:**	True
Well:	Chevron 5-5D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
7,200.0	3.85	125.89	7,084.5	-738.9	1,021.1	1,259.9	2.00	-2.00	
7,300.0	1.85	125.89	7,184.4	-741.8	1,025.1	1,264.8	2.00	-2.00	
7,392.6	0.00	0.00	7,277.0	-742.7	1,026.3	1,266.3	2.00	-2.00	EOD @ Inc. = 0° - Approx. Top Gas - Chevron 5
7,400.0	0.02	240.02	7,284.4	-742.7	1,026.3	1,266.3	0.25	0.25	
7,500.0	0.27	240.02	7,384.4	-742.8	1,026.1	1,266.2	0.25	0.25	
7,600.0	0.52	240.02	7,484.4	-743.2	1,025.5	1,266.0	0.25	0.25	
7,700.0	0.77	240.02	7,584.4	-743.7	1,024.6	1,265.6	0.25	0.25	
7,722.0	0.82	240.02	7,606.3	-743.9	1,024.3	1,265.4	0.25	0.25	
7,800.0	0.82	240.02	7,684.4	-744.4	1,023.3	1,265.0	0.00	0.00	
7,900.0	0.82	240.02	7,784.4	-745.2	1,022.1	1,264.5	0.00	0.00	
8,000.0	0.82	240.02	7,884.4	-745.9	1,020.8	1,263.9	0.00	0.00	
8,100.0	0.82	240.02	7,984.4	-746.6	1,019.6	1,263.4	0.00	0.00	
8,200.0	0.82	240.02	8,084.3	-747.3	1,018.3	1,262.8	0.00	0.00	
8,300.0	0.82	240.02	8,184.3	-748.0	1,017.1	1,262.3	0.00	0.00	
8,400.0	0.82	240.02	8,284.3	-748.8	1,015.9	1,261.7	0.00	0.00	
8,500.0	0.82	240.02	8,384.3	-749.5	1,014.6	1,261.2	0.00	0.00	
8,600.0	0.82	240.02	8,484.3	-750.2	1,013.4	1,260.6	0.00	0.00	
8,700.0	0.82	240.02	8,584.3	-750.9	1,012.1	1,260.1	0.00	0.00	
8,800.0	0.82	240.02	8,684.3	-751.6	1,010.9	1,259.5	0.00	0.00	
8,900.0	0.82	240.02	8,784.3	-752.3	1,009.6	1,259.0	0.00	0.00	
9,000.0	0.82	240.02	8,884.3	-753.1	1,008.4	1,258.4	0.00	0.00	
9,100.0	0.82	240.02	8,984.2	-753.8	1,007.1	1,257.9	0.00	0.00	
9,200.0	0.82	240.02	9,084.2	-754.5	1,005.9	1,257.3	0.00	0.00	
9,300.0	0.82	240.02	9,184.2	-755.2	1,004.7	1,256.8	0.00	0.00	
9,400.0	0.82	240.02	9,284.2	-755.9	1,003.4	1,256.2	0.00	0.00	
9,500.0	0.82	240.02	9,384.2	-756.7	1,002.2	1,255.7	0.00	0.00	
9,600.0	0.82	240.02	9,484.2	-757.4	1,000.9	1,255.1	0.00	0.00	
9,700.0	0.82	240.02	9,584.2	-758.1	999.7	1,254.6	0.00	0.00	
9,800.0	0.82	240.02	9,684.2	-758.8	998.4	1,254.0	0.00	0.00	
9,842.8	0.82	240.02	9,727.0	-759.1	997.9	1,253.8	0.00	0.00	Cameo
9,900.0	0.82	240.02	9,784.2	-759.5	997.2	1,253.5	0.00	0.00	
10,000.0	0.82	240.02	9,884.2	-760.2	995.9	1,252.9	0.00	0.00	
10,100.0	0.82	240.02	9,984.1	-761.0	994.7	1,252.4	0.00	0.00	
10,192.9	0.82	240.02	10,077.0	-761.6	993.5	1,251.9	0.00	0.00	Rollins SS
10,200.0	0.82	240.02	10,084.1	-761.7	993.5	1,251.8	0.00	0.00	
10,300.0	0.82	240.02	10,184.1	-762.4	992.2	1,251.3	0.00	0.00	
10,342.9	0.82	240.02	10,227.0	-762.7	991.7	1,251.1	0.00	0.00	Chevron 5-5D PBHL

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Company:	Berry Petroleum Company (NAD 83)	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Project:	Garfield County	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site:	Chevron E05 696	**North Reference:**	True
Well:	Chevron 5-5D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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 5-5D TGT - plan hits target center - Point	0.00	0.00	7,277.0	-742.7	1,026.3	1,637,623.24	2,257,841.60	39.554531	-108.132471
Chevron 5-5D PBHL - plan hits target center - Polygon	0.00	0.00	10,227.0	-762.7	991.7	1,637,604.25	2,257,806.36	39.554476	-108.132594
Point 1			10,227.0	70.0	-100.0	1,637,677.12	2,257,708.44		
Point 2			10,227.0	70.0	100.0	1,637,671.32	2,257,908.35		
Point 3			10,227.0	-20.0	100.0	1,637,581.36	2,257,905.74		
Point 4			10,227.0	-20.0	-100.0	1,637,587.16	2,257,705.83		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,329.6	3,277.0	Wasatch			
5,465.9	5,377.0	Fort Union			
6,788.3	6,677.0	Ohio Creek			
7,192.4	7,077.0	Williams Fork			
7,392.6	7,277.0	Approx. Top Gas			
9,842.8	9,727.0	Cameo			
10,192.9	10,077.0	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'
252.9	252.6	-2.9	3.9	EOB @ Inc. = 10.58°
6,863.8	6,751.2	-714.2	986.9	Start Drop -2.00
7,392.6	7,277.0	-742.7	1,026.3	EOD @ Inc. = 0°
10,342.9	10,227.0	-762.7	991.7	TD @ 10,342' MD

Berry Petroleum Company (NAD 83)

Garfield County
Chevron E05 696
Chevron 5-5D
DD
Plan #1

Anticollision Report

14 January, 2011

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Reference Plan #1

Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
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 1,234.3ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**		

Survey Tool Program **Date** 1/14/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	10,342.9	Plan #1 (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 E05 696						
Chevron 5-17D - DD - Plan #1	200.0	200.0	14.9	14.3	23.758	CC, ES, SF
Chevron 5-18D - DD - Plan #1	200.0	200.0	29.9	29.2	47.516	CC, ES
Chevron 5-18D - DD - Plan #1	300.0	297.9	40.9	39.9	40.909	SF
Chevron 5-19D - DD - Plan #1	200.0	200.0	60.0	59.4	95.465	CC, ES
Chevron 5-19D - DD - Plan #1	5,100.0	5,044.6	1,233.5	1,214.0	63.461	SF
Chevron 5-20D - DD - Plan #1	200.0	200.0	44.8	44.2	71.274	CC, ES
Chevron 5-20D - DD - Plan #1	400.0	392.5	75.5	74.2	55.087	SF
Chevron 5-6D - DD - Plan #1	300.0	299.0	12.2	11.1	11.603	CC, ES
Chevron 5-6D - DD - Plan #1	6,000.0	5,998.1	169.7	132.3	4.529	SF
Chevron 5-7D - DD - Plan #1	322.1	320.1	25.2	24.0	21.713	CC, ES
Chevron 5-7D - DD - Plan #1	5,500.0	5,477.8	466.6	429.7	12.666	SF
Chevron 5-8D - DD - Plan #1	342.2	338.7	39.1	37.8	31.183	CC, ES
Chevron 5-8D - DD - Plan #1	10,342.9	10,309.3	955.0	907.0	19.918	SF

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-17D - 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	-105.57	-4.0	-14.4	14.9				
100.0	100.0	100.0	100.0	0.1	0.1	-105.57	-4.0	-14.4	14.9	14.6	0.28	53.456	
200.0	200.0	200.0	200.0	0.3	0.3	-105.57	-4.0	-14.4	14.9	14.3	0.63	23.758	CC, ES, SF
300.0	298.9	298.7	298.6	0.6	0.5	148.78	-5.6	-15.0	26.1	25.1	0.99	26.280	
400.0	397.2	396.8	396.6	0.9	0.7	154.83	-10.2	-17.0	43.6	42.2	1.38	31.536	
500.0	495.5	494.7	494.2	1.2	0.9	154.28	-18.0	-20.2	62.0	60.1	1.82	34.095	
600.0	593.8	592.2	591.0	1.6	1.2	151.64	-28.8	-24.7	81.1	78.8	2.31	35.097	
700.0	692.1	689.2	686.8	2.0	1.5	148.19	-42.5	-30.4	101.3	98.4	2.87	35.314	
800.0	790.4	786.5	782.6	2.3	1.8	144.92	-58.2	-36.9	122.5	119.1	3.45	35.472	
900.0	888.7	884.0	878.6	2.7	2.1	142.60	-74.0	-43.5	144.0	140.0	4.04	35.604	
1,000.0	987.0	981.5	974.7	3.1	2.4	140.88	-89.7	-50.0	165.7	161.0	4.64	35.724	
1,100.0	1,085.3	1,079.1	1,070.7	3.4	2.8	139.56	-105.5	-56.6	187.4	182.2	5.23	35.832	
1,200.0	1,183.6	1,176.6	1,166.7	3.8	3.1	138.51	-121.3	-63.2	209.3	203.5	5.82	35.928	
1,300.0	1,281.9	1,274.1	1,262.7	4.2	3.5	137.66	-137.1	-69.7	231.2	224.8	6.42	36.014	
1,400.0	1,380.2	1,371.6	1,358.7	4.5	3.8	136.96	-152.8	-76.3	253.1	246.1	7.01	36.091	
1,500.0	1,478.5	1,469.2	1,454.7	4.9	4.1	136.37	-168.6	-82.9	275.1	267.5	7.61	36.159	
1,600.0	1,576.8	1,566.7	1,550.7	5.3	4.5	135.87	-184.4	-89.4	297.1	288.9	8.20	36.221	
1,700.0	1,675.1	1,664.2	1,646.7	5.6	4.8	135.43	-200.2	-96.0	319.1	310.3	8.80	36.277	
1,800.0	1,773.4	1,761.7	1,742.8	6.0	5.2	135.06	-215.9	-102.5	341.1	331.7	9.39	36.327	
1,900.0	1,871.7	1,859.2	1,838.8	6.4	5.5	134.72	-231.7	-109.1	363.2	353.2	9.98	36.373	
2,000.0	1,970.0	1,956.8	1,934.8	6.7	5.8	134.43	-247.5	-115.7	385.2	374.6	10.58	36.415	
2,100.0	2,068.3	2,054.3	2,030.8	7.1	6.2	134.17	-263.3	-122.2	407.3	396.1	11.17	36.453	
2,200.0	2,166.6	2,151.8	2,126.8	7.5	6.5	133.93	-279.0	-128.8	429.3	417.6	11.77	36.488	
2,300.0	2,264.9	2,249.3	2,222.8	7.8	6.9	133.72	-294.8	-135.3	451.4	439.0	12.36	36.520	
2,400.0	2,363.2	2,346.8	2,318.8	8.2	7.2	133.53	-310.6	-141.9	473.5	460.5	12.95	36.550	
2,500.0	2,461.5	2,444.4	2,414.8	8.6	7.6	133.35	-326.4	-148.5	495.6	482.0	13.55	36.578	
2,600.0	2,559.8	2,541.9	2,510.9	8.9	7.9	133.19	-342.1	-155.0	517.6	503.5	14.14	36.603	
2,700.0	2,658.1	2,639.4	2,606.9	9.3	8.2	133.05	-357.9	-161.6	539.7	525.0	14.74	36.627	
2,800.0	2,756.4	2,736.9	2,702.9	9.7	8.6	132.91	-373.7	-168.2	561.8	546.5	15.33	36.650	
2,900.0	2,854.7	2,834.4	2,798.9	10.0	8.9	132.79	-389.5	-174.7	583.9	568.0	15.92	36.671	
3,000.0	2,953.0	2,932.0	2,894.9	10.4	9.3	132.67	-405.2	-181.3	606.0	589.5	16.52	36.690	
3,100.0	3,051.3	3,029.5	2,990.9	10.8	9.6	132.56	-421.0	-187.8	628.1	611.0	17.11	36.708	
3,200.0	3,149.6	3,127.0	3,086.9	11.1	10.0	132.46	-436.8	-194.4	650.2	632.5	17.70	36.726	
3,300.0	3,247.9	3,224.5	3,182.9	11.5	10.3	132.37	-452.6	-201.0	672.3	654.0	18.30	36.742	
3,400.0	3,346.2	3,322.0	3,279.0	11.9	10.6	132.28	-468.3	-207.5	694.4	675.5	18.89	36.757	
3,500.0	3,444.5	3,419.6	3,375.0	12.3	11.0	132.20	-484.1	-214.1	716.5	697.1	19.49	36.772	
3,600.0	3,542.8	3,517.1	3,471.0	12.6	11.3	132.12	-499.9	-220.7	738.6	718.6	20.08	36.786	
3,700.0	3,641.1	3,614.6	3,567.0	13.0	11.7	132.05	-515.7	-227.2	760.8	740.1	20.67	36.799	
3,800.0	3,739.4	3,712.1	3,663.0	13.4	12.0	131.98	-531.4	-233.8	782.9	761.6	21.27	36.811	
3,900.0	3,837.7	3,809.7	3,759.0	13.7	12.4	131.91	-547.2	-240.3	805.0	783.1	21.86	36.823	
4,000.0	3,936.0	3,907.2	3,855.0	14.1	12.7	131.85	-563.0	-246.9	827.1	804.6	22.45	36.834	
4,100.0	4,034.3	4,004.7	3,951.0	14.5	13.1	131.79	-578.8	-253.5	849.2	826.2	23.05	36.845	
4,200.0	4,132.6	4,102.2	4,047.1	14.8	13.4	131.74	-594.5	-260.0	871.3	847.7	23.64	36.855	
4,300.0	4,231.0	4,199.7	4,143.1	15.2	13.7	131.68	-610.3	-266.6	893.4	869.2	24.24	36.864	
4,400.0	4,329.3	4,297.3	4,239.1	15.6	14.1	131.63	-626.1	-273.2	915.5	890.7	24.83	36.874	
4,500.0	4,427.6	4,394.8	4,335.1	15.9	14.4	131.58	-641.9	-279.7	937.7	912.2	25.42	36.883	
4,600.0	4,525.9	4,492.3	4,431.1	16.3	14.8	131.54	-657.7	-286.3	959.8	933.8	26.02	36.891	
4,700.0	4,624.2	4,589.8	4,527.1	16.7	15.1	131.49	-673.4	-292.8	981.9	955.3	26.61	36.899	
4,800.0	4,722.5	4,687.3	4,623.1	17.0	15.5	131.45	-689.2	-299.4	1,004.0	976.8	27.20	36.907	
4,900.0	4,820.8	4,784.9	4,719.1	17.4	15.8	131.41	-705.0	-306.0	1,026.1	998.3	27.80	36.915	
5,000.0	4,919.1	4,882.4	4,815.2	17.8	16.1	131.38	-720.8	-312.5	1,048.3	1,019.9	28.39	36.922	
5,100.0	5,017.4	4,979.9	4,911.2	18.1	16.5	131.34	-736.5	-319.1	1,070.4	1,041.4	28.98	36.929	

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 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-17D - 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
5,200.0	5,115.7	5,094.0	5,023.6	18.5	16.9	131.34	-754.0	-326.4	1,092.0	1,062.4	29.60	36.890	
5,300.0	5,214.0	5,219.2	5,147.9	18.9	17.2	131.56	-768.8	-332.5	1,111.5	1,081.3	30.18	36.833	
5,400.0	5,312.3	5,345.2	5,273.4	19.2	17.4	132.01	-778.5	-336.5	1,128.5	1,097.8	30.68	36.783	
5,500.0	5,410.6	5,471.4	5,399.4	19.6	17.6	132.67	-783.1	-338.5	1,143.2	1,112.1	31.11	36.745	
5,600.0	5,508.9	5,578.1	5,506.2	20.0	17.7	133.37	-783.5	-338.7	1,156.1	1,124.6	31.49	36.718	
5,700.0	5,607.2	5,671.9	5,600.0	20.3	17.8	133.98	-783.8	-339.1	1,169.3	1,137.5	31.85	36.718	
5,800.0	5,705.5	5,767.8	5,695.8	20.7	17.9	134.59	-784.1	-339.7	1,183.0	1,150.8	32.20	36.735	
5,900.0	5,803.8	5,866.0	5,794.1	21.1	18.0	135.19	-784.6	-340.5	1,196.9	1,164.3	32.56	36.760	
6,000.0	5,902.1	5,964.2	5,892.3	21.4	18.1	135.79	-785.0	-341.2	1,210.9	1,178.0	32.91	36.793	
6,100.0	6,000.4	6,062.5	5,990.5	21.8	18.2	136.36	-785.4	-342.0	1,225.0	1,191.7	33.26	36.833	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-18D - 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	-105.57	-8.0	-28.8	29.9				
100.0	100.0	100.0	100.0	0.1	0.1	-105.57	-8.0	-28.8	29.9	29.6	0.28	106.911	
200.0	200.0	200.0	200.0	0.3	0.3	-105.57	-8.0	-28.8	29.9	29.2	0.63	47.516	CC, ES
300.0	298.9	297.9	297.9	0.6	0.5	141.64	-9.2	-29.9	40.9	39.9	1.00	40.909	SF
400.0	397.2	394.9	394.7	0.9	0.7	149.11	-12.8	-33.3	59.5	58.1	1.39	42.699	
500.0	495.5	491.2	490.7	1.2	0.9	151.03	-18.8	-38.9	80.5	78.6	1.81	44.471	
600.0	593.8	586.8	585.6	1.6	1.1	150.66	-27.0	-46.7	103.4	101.1	2.26	45.719	
700.0	692.1	681.3	679.0	2.0	1.4	149.26	-37.3	-56.5	128.3	125.5	2.75	46.582	
800.0	790.4	777.0	773.3	2.3	1.8	147.62	-49.5	-67.9	154.6	151.4	3.27	47.328	
900.0	888.7	873.4	868.2	2.7	2.1	146.42	-61.7	-79.5	181.1	177.4	3.79	47.826	
1,000.0	987.0	969.7	963.0	3.1	2.4	145.53	-74.0	-91.1	207.7	203.4	4.31	48.188	
1,100.0	1,085.3	1,066.1	1,057.9	3.4	2.7	144.84	-86.2	-102.7	234.3	229.5	4.83	48.464	
1,200.0	1,183.6	1,162.5	1,152.8	3.8	3.1	144.29	-98.5	-114.2	260.9	255.5	5.36	48.682	
1,300.0	1,281.9	1,258.8	1,247.7	4.2	3.4	143.85	-110.8	-125.8	287.5	281.7	5.89	48.858	
1,400.0	1,380.2	1,355.2	1,342.6	4.5	3.7	143.48	-123.0	-137.4	314.2	307.8	6.41	49.003	
1,500.0	1,478.5	1,451.6	1,437.4	4.9	4.1	143.16	-135.3	-149.0	340.9	333.9	6.94	49.126	
1,600.0	1,576.8	1,547.9	1,532.3	5.3	4.4	142.90	-147.6	-160.6	367.5	360.1	7.47	49.230	
1,700.0	1,675.1	1,644.3	1,627.2	5.6	4.8	142.67	-159.8	-172.2	394.2	386.2	7.99	49.320	
1,800.0	1,773.4	1,740.7	1,722.1	6.0	5.1	142.46	-172.1	-183.7	420.9	412.4	8.52	49.398	
1,900.0	1,871.7	1,837.0	1,816.9	6.4	5.4	142.29	-184.4	-195.3	447.6	438.5	9.05	49.467	
2,000.0	1,970.0	1,933.4	1,911.8	6.7	5.8	142.13	-196.6	-206.9	474.2	464.7	9.58	49.529	
2,100.0	2,068.3	2,029.8	2,006.7	7.1	6.1	141.99	-208.9	-218.5	500.9	490.8	10.10	49.583	
2,200.0	2,166.6	2,126.1	2,101.6	7.5	6.5	141.86	-221.1	-230.1	527.6	517.0	10.63	49.632	
2,300.0	2,264.9	2,222.5	2,196.4	7.8	6.8	141.75	-233.4	-241.7	554.3	543.2	11.16	49.677	
2,400.0	2,363.2	2,318.9	2,291.3	8.2	7.1	141.64	-245.7	-253.2	581.0	569.3	11.69	49.717	
2,500.0	2,461.5	2,415.2	2,386.2	8.6	7.5	141.55	-257.9	-264.8	607.7	595.5	12.21	49.754	
2,600.0	2,559.8	2,511.6	2,481.1	8.9	7.8	141.46	-270.2	-276.4	634.4	621.7	12.74	49.787	
2,700.0	2,658.1	2,608.0	2,576.0	9.3	8.2	141.38	-282.5	-288.0	661.1	647.8	13.27	49.818	
2,800.0	2,756.4	2,704.3	2,670.8	9.7	8.5	141.31	-294.7	-299.6	687.8	674.0	13.80	49.847	
2,900.0	2,854.7	2,800.7	2,765.7	10.0	8.8	141.24	-307.0	-311.2	714.5	700.2	14.33	49.873	
3,000.0	2,953.0	2,897.1	2,860.6	10.4	9.2	141.17	-319.2	-322.7	741.2	726.4	14.86	49.897	
3,100.0	3,051.3	2,993.4	2,955.5	10.8	9.5	141.12	-331.5	-334.3	767.9	752.6	15.38	49.920	
3,200.0	3,149.6	3,089.8	3,050.3	11.1	9.9	141.06	-343.8	-345.9	794.6	778.7	15.91	49.941	
3,300.0	3,247.9	3,186.1	3,145.2	11.5	10.2	141.01	-356.0	-357.5	821.3	804.9	16.44	49.961	
3,400.0	3,346.2	3,282.5	3,240.1	11.9	10.5	140.96	-368.3	-369.1	848.1	831.1	16.97	49.980	
3,500.0	3,444.5	3,378.9	3,335.0	12.3	10.9	140.92	-380.6	-380.7	874.8	857.3	17.50	49.997	
3,600.0	3,542.8	3,475.2	3,429.9	12.6	11.2	140.87	-392.8	-392.2	901.5	883.4	18.02	50.014	
3,700.0	3,641.1	3,571.6	3,524.7	13.0	11.6	140.83	-405.1	-403.8	928.2	909.6	18.55	50.029	
3,800.0	3,739.4	3,668.0	3,619.6	13.4	11.9	140.80	-417.4	-415.4	954.9	935.8	19.08	50.044	
3,900.0	3,837.7	3,769.6	3,719.7	13.7	12.3	140.76	-430.2	-427.6	981.6	961.9	19.62	50.028	
4,000.0	3,936.0	3,898.6	3,847.3	14.1	12.6	140.87	-443.9	-440.4	1,006.2	986.0	20.18	49.855	
4,100.0	4,034.3	4,029.4	3,977.4	14.5	12.9	141.22	-453.4	-449.5	1,027.7	1,007.0	20.69	49.682	
4,200.0	4,132.6	4,161.3	4,109.2	14.8	13.1	141.78	-458.7	-454.4	1,046.0	1,024.9	21.13	49.496	
4,300.0	4,231.0	4,281.9	4,229.7	15.2	13.2	142.47	-459.7	-455.4	1,061.4	1,039.8	21.52	49.311	
4,400.0	4,329.3	4,376.4	4,324.2	15.6	13.3	143.03	-459.9	-455.7	1,076.3	1,054.5	21.88	49.192	
4,500.0	4,427.6	4,473.3	4,421.1	15.9	13.4	143.59	-460.2	-456.3	1,091.7	1,069.5	22.24	49.093	
4,600.0	4,525.9	4,571.6	4,519.4	16.3	13.5	144.13	-460.5	-456.8	1,107.2	1,084.6	22.59	49.006	
4,700.0	4,624.2	4,669.8	4,617.6	16.7	13.6	144.66	-460.9	-457.4	1,122.8	1,099.9	22.95	48.932	
4,800.0	4,722.5	4,768.1	4,715.9	17.0	13.8	145.17	-461.2	-458.0	1,138.5	1,115.2	23.30	48.870	
4,900.0	4,820.8	4,866.3	4,814.1	17.4	13.9	145.67	-461.5	-458.6	1,154.3	1,130.6	23.64	48.819	
5,000.0	4,919.1	4,964.6	4,912.4	17.8	14.0	146.16	-461.9	-459.1	1,170.1	1,146.1	23.99	48.777	
5,100.0	5,017.4	5,062.8	5,010.6	18.1	14.1	146.63	-462.2	-459.7	1,186.0	1,161.7	24.33	48.744	

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 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-18D - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,115.7	5,161.1	5,108.8	18.5	14.2	147.09	-462.5	-460.3	1,202.0	1,177.4	24.67	48.718	
5,300.0	5,214.0	5,259.3	5,207.1	18.9	14.3	147.54	-462.9	-460.9	1,218.1	1,193.1	25.01	48.701	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-19D - 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	-105.50	-16.0	-57.8	60.0				
100.0	100.0	100.0	100.0	0.1	0.1	-105.50	-16.0	-57.8	60.0	59.7	0.28	214.795	
200.0	200.0	200.0	200.0	0.3	0.3	-105.50	-16.0	-57.8	60.0	59.4	0.63	95.465	CC, ES
300.0	298.9	296.6	296.5	0.6	0.5	136.47	-16.4	-59.4	70.9	69.9	1.00	70.685	
400.0	397.2	391.5	391.4	0.9	0.7	143.91	-17.6	-64.0	90.0	88.6	1.39	64.530	
500.0	495.5	485.4	484.9	1.2	0.9	148.16	-19.6	-71.5	113.2	111.4	1.78	63.603	
600.0	593.8	577.8	576.8	1.6	1.1	150.48	-22.3	-81.9	139.7	137.5	2.17	64.499	
700.0	692.1	668.8	666.7	2.0	1.4	151.65	-25.6	-94.9	169.1	166.6	2.56	66.085	
800.0	790.4	761.3	757.8	2.3	1.7	152.20	-29.7	-110.4	201.0	198.0	2.96	67.805	
900.0	888.7	856.0	851.0	2.7	2.0	152.57	-33.9	-126.6	233.1	229.8	3.38	69.036	
1,000.0	987.0	950.7	944.2	3.1	2.4	152.86	-38.1	-142.8	265.3	261.5	3.79	69.956	
1,100.0	1,085.3	1,045.3	1,037.4	3.4	2.7	153.08	-42.3	-159.1	297.4	293.2	4.21	70.665	
1,200.0	1,183.6	1,140.0	1,130.5	3.8	3.0	153.26	-46.5	-175.3	329.6	325.0	4.63	71.227	
1,300.0	1,281.9	1,234.7	1,223.7	4.2	3.4	153.41	-50.7	-191.5	361.8	356.7	5.05	71.682	
1,400.0	1,380.2	1,329.4	1,316.9	4.5	3.7	153.53	-54.9	-207.7	394.0	388.5	5.47	72.057	
1,500.0	1,478.5	1,424.1	1,410.1	4.9	4.0	153.64	-59.1	-223.9	426.1	420.2	5.89	72.371	
1,600.0	1,576.8	1,518.7	1,503.3	5.3	4.4	153.73	-63.3	-240.1	458.3	452.0	6.31	72.638	
1,700.0	1,675.1	1,613.4	1,596.5	5.6	4.7	153.81	-67.5	-256.4	490.5	483.7	6.73	72.867	
1,800.0	1,773.4	1,708.1	1,689.7	6.0	5.0	153.88	-71.7	-272.6	522.6	515.5	7.15	73.066	
1,900.0	1,871.7	1,802.8	1,782.9	6.4	5.4	153.94	-75.9	-288.8	554.8	547.2	7.58	73.240	
2,000.0	1,970.0	1,897.5	1,876.0	6.7	5.7	153.99	-80.1	-305.0	587.0	579.0	8.00	73.394	
2,100.0	2,068.3	1,992.1	1,969.2	7.1	6.0	154.04	-84.3	-321.2	619.2	610.7	8.42	73.530	
2,200.0	2,166.6	2,086.8	2,062.4	7.5	6.4	154.08	-88.5	-337.4	651.3	642.5	8.84	73.652	
2,300.0	2,264.9	2,181.5	2,155.6	7.8	6.7	154.12	-92.7	-353.7	683.5	674.2	9.27	73.762	
2,400.0	2,363.2	2,276.2	2,248.8	8.2	7.1	154.16	-96.9	-369.9	715.7	706.0	9.69	73.861	
2,500.0	2,461.5	2,370.9	2,342.0	8.6	7.4	154.19	-101.1	-386.1	747.9	737.8	10.11	73.952	
2,600.0	2,559.8	2,496.0	2,465.6	8.9	7.8	154.32	-106.0	-405.0	778.2	767.6	10.58	73.546	
2,700.0	2,658.1	2,624.4	2,593.1	9.3	8.1	154.62	-109.6	-418.9	804.7	793.7	11.03	72.959	
2,800.0	2,756.4	2,755.2	2,723.6	9.7	8.3	155.08	-111.8	-427.4	827.3	815.9	11.46	72.206	
2,900.0	2,854.7	2,886.2	2,854.6	10.0	8.4	155.69	-112.5	-430.1	845.9	834.1	11.86	71.313	
3,000.0	2,953.0	2,981.8	2,950.3	10.4	8.6	156.17	-112.6	-430.2	862.9	850.7	12.21	70.650	
3,100.0	3,051.3	3,079.4	3,047.8	10.8	8.7	156.62	-112.9	-430.7	880.2	867.6	12.57	70.039	
3,200.0	3,149.6	3,177.6	3,146.0	11.1	8.8	157.06	-113.2	-431.2	897.5	884.5	12.92	69.470	
3,300.0	3,247.9	3,275.9	3,244.3	11.5	8.9	157.49	-113.4	-431.6	914.8	901.6	13.27	68.942	
3,400.0	3,346.2	3,374.2	3,342.6	11.9	9.0	157.89	-113.7	-432.1	932.2	918.6	13.62	68.452	
3,500.0	3,444.5	3,472.4	3,440.8	12.3	9.1	158.29	-114.0	-432.6	949.7	935.7	13.97	67.996	
3,600.0	3,542.8	3,570.7	3,539.1	12.6	9.3	158.67	-114.3	-433.0	967.2	952.9	14.31	67.570	
3,700.0	3,641.1	3,668.9	3,637.3	13.0	9.4	159.03	-114.5	-433.5	984.7	970.1	14.66	67.171	
3,800.0	3,739.4	3,767.2	3,735.6	13.4	9.5	159.38	-114.8	-434.0	1,002.3	987.3	15.01	66.798	
3,900.0	3,837.7	3,865.5	3,833.8	13.7	9.6	159.72	-115.1	-434.4	1,019.9	1,004.6	15.35	66.447	
4,000.0	3,936.0	3,963.7	3,932.1	14.1	9.8	160.05	-115.3	-434.9	1,037.6	1,021.9	15.69	66.118	
4,100.0	4,034.3	4,062.0	4,030.4	14.5	9.9	160.37	-115.6	-435.4	1,055.3	1,039.2	16.04	65.807	
4,200.0	4,132.6	4,160.2	4,128.6	14.8	10.0	160.68	-115.9	-435.8	1,073.0	1,056.6	16.38	65.513	
4,300.0	4,231.0	4,258.5	4,226.9	15.2	10.1	160.98	-116.2	-436.3	1,090.7	1,074.0	16.72	65.236	
4,400.0	4,329.3	4,356.7	4,325.1	15.6	10.3	161.26	-116.4	-436.8	1,108.5	1,091.4	17.06	64.973	
4,500.0	4,427.6	4,455.0	4,423.4	15.9	10.4	161.54	-116.7	-437.2	1,126.3	1,108.9	17.40	64.724	
4,600.0	4,525.9	4,553.3	4,521.6	16.3	10.5	161.81	-117.0	-437.7	1,144.1	1,126.3	17.74	64.487	
4,700.0	4,624.2	4,651.5	4,619.9	16.7	10.7	162.07	-117.2	-438.2	1,161.9	1,143.8	18.08	64.262	
4,800.0	4,722.5	4,749.8	4,718.2	17.0	10.8	162.33	-117.5	-438.7	1,179.8	1,161.4	18.42	64.047	
4,900.0	4,820.8	4,848.0	4,816.4	17.4	10.9	162.58	-117.8	-439.1	1,197.7	1,178.9	18.76	63.843	
5,000.0	4,919.1	4,946.3	4,914.7	17.8	11.1	162.81	-118.1	-439.6	1,215.6	1,196.5	19.10	63.648	
5,100.0	5,017.4	5,044.6	5,012.9	18.1	11.2	163.05	-118.3	-440.1	1,233.5	1,214.0	19.44	63.461	SF

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 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-20D - 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	-105.57	-12.0	-43.1	44.8				
100.0	100.0	100.0	100.0	0.1	0.1	-105.57	-12.0	-43.1	44.8	44.5	0.28	160.367	
200.0	200.0	200.0	200.0	0.3	0.3	-105.57	-12.0	-43.1	44.8	44.2	0.63	71.274	CC, ES
300.0	298.9	297.3	297.3	0.6	0.5	139.95	-11.3	-44.6	55.7	54.7	1.00	55.703	
400.0	397.2	392.5	392.4	0.9	0.7	150.59	-9.2	-49.0	75.5	74.2	1.37	55.087	SF
500.0	495.5	486.2	485.7	1.2	0.9	157.11	-5.8	-56.0	100.0	98.3	1.72	58.191	
600.0	593.8	578.2	577.1	1.6	1.1	161.24	-1.1	-65.6	128.4	126.3	2.05	62.511	
700.0	692.1	668.2	666.2	2.0	1.4	163.98	4.6	-77.5	160.1	157.8	2.38	67.254	
800.0	790.4	758.9	755.5	2.3	1.7	165.90	11.6	-91.8	194.8	192.1	2.71	71.953	
900.0	888.7	852.4	847.4	2.7	2.0	167.29	18.9	-106.9	230.1	227.0	3.04	75.722	
1,000.0	987.0	945.9	939.3	3.1	2.3	168.32	26.2	-122.0	265.4	262.0	3.37	78.764	
1,100.0	1,085.3	1,039.3	1,031.3	3.4	2.7	169.10	33.6	-137.1	300.8	297.1	3.70	81.263	
1,200.0	1,183.6	1,132.8	1,123.2	3.8	3.0	169.72	40.9	-152.2	336.3	332.2	4.03	83.348	
1,300.0	1,281.9	1,226.2	1,215.1	4.2	3.3	170.22	48.2	-167.3	371.7	367.4	4.37	85.114	
1,400.0	1,380.2	1,319.7	1,307.1	4.5	3.7	170.64	55.6	-182.4	407.2	402.5	4.70	86.627	
1,500.0	1,478.5	1,413.1	1,399.0	4.9	4.0	170.98	62.9	-197.5	442.7	437.7	5.03	87.936	
1,600.0	1,576.8	1,506.6	1,490.9	5.3	4.3	171.28	70.2	-212.7	478.2	472.9	5.37	89.081	
1,700.0	1,675.1	1,600.0	1,582.9	5.6	4.7	171.53	77.5	-227.8	513.8	508.1	5.70	90.090	
1,800.0	1,773.4	1,693.5	1,674.8	6.0	5.0	171.76	84.9	-242.9	549.3	543.3	6.04	90.986	
1,900.0	1,871.7	1,786.9	1,766.7	6.4	5.3	171.95	92.2	-258.0	584.8	578.5	6.37	91.786	
2,000.0	1,970.0	1,880.4	1,858.6	6.7	5.7	172.12	99.5	-273.1	620.4	613.7	6.71	92.505	
2,100.0	2,068.3	1,973.8	1,950.6	7.1	6.0	172.28	106.9	-288.2	655.9	648.9	7.04	93.155	
2,200.0	2,166.6	2,067.3	2,042.5	7.5	6.4	172.42	114.2	-303.3	691.5	684.1	7.38	93.745	
2,300.0	2,264.9	2,160.7	2,134.4	7.8	6.7	172.54	121.5	-318.4	727.1	719.3	7.71	94.283	
2,400.0	2,363.2	2,254.2	2,226.4	8.2	7.0	172.65	128.8	-333.5	762.6	754.6	8.05	94.775	
2,500.0	2,461.5	2,347.7	2,318.3	8.6	7.4	172.76	136.2	-348.6	798.2	789.8	8.38	95.228	
2,600.0	2,559.8	2,441.1	2,410.2	8.9	7.7	172.85	143.5	-363.7	833.7	825.0	8.72	95.645	
2,700.0	2,658.1	2,534.6	2,502.2	9.3	8.0	172.94	150.8	-378.9	869.3	860.3	9.05	96.031	
2,800.0	2,756.4	2,628.0	2,594.1	9.7	8.4	173.02	158.2	-394.0	904.9	895.5	9.39	96.389	
2,900.0	2,854.7	2,721.9	2,686.4	10.0	8.7	173.09	165.5	-409.1	940.4	930.7	9.72	96.715	
3,000.0	2,953.0	2,863.4	2,826.2	10.4	9.1	173.21	175.1	-428.9	973.7	963.5	10.14	96.027	
3,100.0	3,051.3	3,009.6	2,971.6	10.8	9.5	173.34	181.8	-442.7	1,002.1	991.6	10.56	94.861	
3,200.0	3,149.6	3,159.9	3,121.6	11.1	9.7	173.49	185.3	-449.9	1,025.6	1,014.6	11.00	93.260	
3,300.0	3,247.9	3,285.1	3,246.9	11.5	9.8	173.63	185.8	-450.9	1,044.6	1,033.2	11.39	91.717	
3,400.0	3,346.2	3,381.4	3,343.2	11.9	9.9	173.72	185.6	-451.3	1,063.0	1,051.3	11.73	90.602	
3,500.0	3,444.5	3,479.6	3,441.4	12.3	10.0	173.80	185.3	-451.8	1,081.6	1,069.5	12.08	89.531	
3,600.0	3,542.8	3,577.9	3,539.7	12.6	10.1	173.88	185.0	-452.3	1,100.1	1,087.7	12.43	88.522	
3,700.0	3,641.1	3,676.2	3,637.9	13.0	10.3	173.95	184.7	-452.7	1,118.6	1,105.8	12.77	87.568	
3,800.0	3,739.4	3,774.4	3,736.2	13.4	10.4	174.03	184.4	-453.2	1,137.2	1,124.0	13.12	86.666	
3,900.0	3,837.7	3,872.7	3,834.4	13.7	10.5	174.10	184.1	-453.7	1,155.7	1,142.2	13.47	85.811	
4,000.0	3,936.0	3,970.9	3,932.7	14.1	10.6	174.16	183.9	-454.2	1,174.2	1,160.4	13.81	85.000	
4,100.0	4,034.3	4,069.2	4,030.9	14.5	10.7	174.23	183.6	-454.7	1,192.8	1,178.6	14.16	84.228	
4,200.0	4,132.6	4,167.4	4,129.2	14.8	10.8	174.29	183.3	-455.2	1,211.3	1,196.8	14.51	83.495	
4,300.0	4,231.0	4,265.7	4,227.4	15.2	11.0	174.35	183.0	-455.7	1,229.9	1,215.0	14.85	82.796	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-6D - 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	74.43	4.0	14.4	14.9				
100.0	100.0	100.0	100.0	0.1	0.1	74.43	4.0	14.4	14.9	14.6	0.28	53.456	
200.0	200.0	200.0	200.0	0.3	0.3	74.43	4.0	14.4	14.9	14.3	0.63	23.758	
286.9	286.6	286.4	286.4	0.5	0.5	-73.06	3.4	15.5	12.4	11.4	0.99	12.534	
300.0	298.9	299.0	298.9	0.6	0.5	-101.78	3.2	15.9	12.2	11.1	1.05	11.603	CC, ES
400.0	397.2	398.3	398.2	0.9	0.7	-141.21	0.8	20.4	20.2	18.8	1.43	14.121	
500.0	495.5	498.5	498.0	1.2	0.9	-151.68	-3.3	28.1	29.1	27.3	1.80	16.152	
600.0	593.8	599.2	597.9	1.6	1.2	-154.27	-9.1	38.9	35.5	33.3	2.21	16.094	
700.0	692.1	700.3	697.7	2.0	1.5	-153.33	-16.6	52.8	39.1	36.4	2.67	14.620	
800.0	790.4	800.2	796.2	2.3	1.8	-151.11	-24.8	68.1	41.1	38.0	3.18	12.923	
900.0	888.7	900.2	894.6	2.7	2.2	-149.10	-33.0	83.5	43.3	39.5	3.72	11.629	
1,000.0	987.0	1,000.2	993.0	3.1	2.5	-147.28	-41.2	98.8	45.4	41.2	4.28	10.620	
1,100.0	1,085.3	1,100.1	1,091.5	3.4	2.9	-145.63	-49.4	114.2	47.7	42.8	4.86	9.815	
1,200.0	1,183.6	1,200.1	1,189.9	3.8	3.2	-144.13	-57.7	129.5	49.9	44.5	5.45	9.163	
1,300.0	1,281.9	1,300.1	1,288.4	4.2	3.6	-142.76	-65.9	144.9	52.2	46.1	6.05	8.625	
1,400.0	1,380.2	1,400.0	1,386.8	4.5	3.9	-141.50	-74.1	160.2	54.5	47.8	6.67	8.177	
1,500.0	1,478.5	1,500.0	1,485.2	4.9	4.3	-140.35	-82.3	175.6	56.8	49.5	7.29	7.797	
1,600.0	1,576.8	1,600.0	1,583.7	5.3	4.6	-139.28	-90.5	190.9	59.2	51.3	7.92	7.474	
1,700.0	1,675.1	1,699.9	1,682.1	5.6	5.0	-138.30	-98.8	206.3	61.6	53.0	8.56	7.195	
1,800.0	1,773.4	1,799.9	1,780.5	6.0	5.3	-137.40	-107.0	221.7	64.0	54.8	9.20	6.952	
1,900.0	1,871.7	1,899.9	1,879.0	6.4	5.7	-136.55	-115.2	237.0	66.4	56.5	9.85	6.739	
2,000.0	1,970.0	1,999.8	1,977.4	6.7	6.0	-135.77	-123.4	252.4	68.8	58.3	10.50	6.552	
2,100.0	2,068.3	2,099.8	2,075.9	7.1	6.4	-135.04	-131.6	267.7	71.2	60.1	11.15	6.385	
2,200.0	2,166.6	2,199.8	2,174.3	7.5	6.7	-134.36	-139.8	283.1	73.7	61.8	11.81	6.236	
2,300.0	2,264.9	2,299.7	2,272.7	7.8	7.1	-133.72	-148.1	298.4	76.1	63.6	12.47	6.103	
2,400.0	2,363.2	2,399.7	2,371.2	8.2	7.4	-133.13	-156.3	313.8	78.6	65.4	13.13	5.982	
2,500.0	2,461.5	2,499.7	2,469.6	8.6	7.8	-132.56	-164.5	329.1	81.0	67.2	13.80	5.873	
2,600.0	2,559.8	2,599.6	2,568.1	8.9	8.1	-132.04	-172.7	344.5	83.5	69.0	14.46	5.774	
2,700.0	2,658.1	2,699.6	2,666.5	9.3	8.5	-131.54	-180.9	359.8	86.0	70.9	15.13	5.683	
2,800.0	2,756.4	2,799.6	2,764.9	9.7	8.8	-131.07	-189.2	375.2	88.5	72.7	15.80	5.600	
2,900.0	2,854.7	2,899.5	2,863.4	10.0	9.2	-130.63	-197.4	390.5	91.0	74.5	16.47	5.524	
3,000.0	2,953.0	2,999.5	2,961.8	10.4	9.5	-130.21	-205.6	405.9	93.5	76.3	17.14	5.453	
3,100.0	3,051.3	3,099.5	3,060.2	10.8	9.9	-129.81	-213.8	421.2	96.0	78.2	17.81	5.388	
3,200.0	3,149.6	3,199.4	3,158.7	11.1	10.2	-129.43	-222.0	436.6	98.5	80.0	18.49	5.327	
3,300.0	3,247.9	3,299.4	3,257.1	11.5	10.6	-129.07	-230.3	451.9	101.0	81.8	19.16	5.271	
3,400.0	3,346.2	3,399.4	3,355.6	11.9	10.9	-128.73	-238.5	467.3	103.5	83.7	19.83	5.219	
3,500.0	3,444.5	3,499.3	3,454.0	12.3	11.3	-128.40	-246.7	482.6	106.0	85.5	20.51	5.170	
3,600.0	3,542.8	3,599.3	3,552.4	12.6	11.7	-128.09	-254.9	498.0	108.6	87.4	21.19	5.124	
3,700.0	3,641.1	3,699.3	3,650.9	13.0	12.0	-127.80	-263.1	513.3	111.1	89.2	21.86	5.081	
3,800.0	3,739.4	3,799.2	3,749.3	13.4	12.4	-127.51	-271.4	528.7	113.6	91.1	22.54	5.041	
3,900.0	3,837.7	3,899.2	3,847.8	13.7	12.7	-127.24	-279.6	544.0	116.1	92.9	23.22	5.003	
4,000.0	3,936.0	3,999.2	3,946.2	14.1	13.1	-126.98	-287.8	559.4	118.7	94.8	23.89	4.967	
4,100.0	4,034.3	4,099.1	4,044.6	14.5	13.4	-126.74	-296.0	574.7	121.2	96.6	24.57	4.934	
4,200.0	4,132.6	4,199.1	4,143.1	14.8	13.8	-126.50	-304.2	590.1	123.8	98.5	25.25	4.902	
4,300.0	4,231.0	4,299.1	4,241.5	15.2	14.1	-126.27	-312.5	605.4	126.3	100.4	25.93	4.871	
4,400.0	4,329.3	4,399.0	4,339.9	15.6	14.5	-126.05	-320.7	620.8	128.8	102.2	26.60	4.843	
4,500.0	4,427.6	4,499.0	4,438.4	15.9	14.8	-125.84	-328.9	636.1	131.4	104.1	27.28	4.816	
4,600.0	4,525.9	4,599.0	4,536.8	16.3	15.2	-125.63	-337.1	651.5	133.9	106.0	27.96	4.790	
4,700.0	4,624.2	4,698.9	4,635.3	16.7	15.5	-125.44	-345.3	666.8	136.5	107.8	28.64	4.765	
4,800.0	4,722.5	4,798.9	4,733.7	17.0	15.9	-125.25	-353.6	682.2	139.0	109.7	29.32	4.742	
4,900.0	4,820.8	4,898.9	4,832.1	17.4	16.2	-125.07	-361.8	697.5	141.6	111.6	30.00	4.719	
5,000.0	4,919.1	4,998.8	4,930.6	17.8	16.6	-124.89	-370.0	712.9	144.1	113.5	30.68	4.698	

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 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-6D - 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
5,100.0	5,017.4	5,098.8	5,029.0	18.1	16.9	-124.73	-378.2	728.2	146.7	115.3	31.36	4.677	
5,200.0	5,115.7	5,198.8	5,127.4	18.5	17.3	-124.56	-386.4	743.6	149.2	117.2	32.04	4.658	
5,300.0	5,214.0	5,298.7	5,225.9	18.9	17.7	-124.40	-394.7	758.9	151.8	119.1	32.72	4.639	
5,400.0	5,312.3	5,398.7	5,324.3	19.2	18.0	-124.25	-402.9	774.3	154.4	121.0	33.40	4.621	
5,500.0	5,410.6	5,498.7	5,422.8	19.6	18.4	-124.10	-411.1	789.6	156.9	122.8	34.08	4.604	
5,600.0	5,508.9	5,598.6	5,521.2	20.0	18.7	-123.96	-419.3	805.0	159.5	124.7	34.76	4.588	
5,700.0	5,607.2	5,698.6	5,619.6	20.3	19.1	-123.82	-427.5	820.3	162.0	126.6	35.44	4.572	
5,800.0	5,705.5	5,798.6	5,718.1	20.7	19.4	-123.69	-435.7	835.7	164.6	128.5	36.12	4.557	
5,900.0	5,803.8	5,898.5	5,816.5	21.1	19.8	-123.56	-444.0	851.0	167.2	130.4	36.80	4.542	
6,000.0	5,902.1	5,998.1	5,914.6	21.4	20.1	-123.44	-452.1	866.3	169.7	132.3	37.48	4.529	SF
6,100.0	6,000.4	6,095.5	6,010.8	21.8	20.4	-123.96	-459.2	879.4	173.3	135.3	37.93	4.567	
6,200.0	6,098.7	6,192.6	6,107.2	22.2	20.6	-125.40	-464.6	889.6	178.3	140.3	38.08	4.683	
6,300.0	6,197.0	6,289.1	6,203.4	22.6	20.8	-127.63	-468.5	896.9	185.2	147.3	37.93	4.883	
6,400.0	6,295.3	6,384.9	6,299.0	22.9	21.0	-130.50	-470.9	901.3	194.2	156.7	37.49	5.179	
6,500.0	6,393.6	6,479.7	6,393.8	23.3	21.1	-133.80	-471.7	902.8	205.5	168.7	36.81	5.584	
6,600.0	6,491.9	6,578.0	6,492.2	23.7	21.2	-137.29	-471.8	902.7	218.7	182.7	35.98	6.077	
6,700.0	6,590.2	6,676.6	6,590.7	24.0	21.2	-140.49	-472.1	902.1	232.4	197.2	35.20	6.604	
6,800.0	6,688.5	6,774.9	6,689.0	24.4	21.3	-143.41	-472.6	901.3	246.8	212.3	34.48	7.158	
6,900.0	6,786.8	6,873.2	6,787.3	24.8	21.4	-146.05	-473.1	900.4	261.4	227.6	33.83	7.728	
7,000.0	6,885.6	6,971.9	6,886.0	25.0	21.5	-148.20	-473.6	899.5	274.3	240.9	33.34	8.225	
7,100.0	6,984.9	7,071.1	6,985.2	25.3	21.6	-149.78	-474.2	898.5	284.4	251.3	33.04	8.608	
7,200.0	7,084.5	7,170.7	7,084.8	25.5	21.7	-150.89	-474.7	897.6	291.6	258.8	32.88	8.869	
7,300.0	7,184.4	7,270.6	7,184.7	25.6	21.8	-151.61	-475.2	896.7	295.9	263.1	32.85	9.008	
7,400.0	7,284.4	7,370.5	7,284.6	25.7	21.9	93.91	-475.8	895.7	297.2	264.2	32.93	9.024	
7,500.0	7,384.4	7,470.5	7,384.6	25.8	22.0	93.75	-476.3	894.8	297.1	264.0	33.13	8.968	
7,600.0	7,484.4	7,570.5	7,484.6	25.9	22.1	93.68	-476.9	893.9	297.1	263.7	33.36	8.906	
7,640.4	7,524.8	7,610.9	7,525.0	25.9	22.1	93.67	-477.1	893.5	297.1	263.6	33.45	8.880	
7,700.0	7,584.4	7,670.5	7,584.6	25.9	22.2	93.69	-477.4	892.9	297.1	263.5	33.61	8.839	
7,800.0	7,684.4	7,770.5	7,684.6	26.0	22.3	93.75	-477.9	892.0	297.1	263.2	33.89	8.767	
7,900.0	7,784.4	7,870.5	7,784.6	26.1	22.4	93.82	-478.5	891.1	297.1	263.0	34.17	8.696	
8,000.0	7,884.4	7,970.5	7,884.6	26.2	22.5	93.89	-479.0	890.2	297.1	262.7	34.45	8.626	
8,100.0	7,984.4	8,070.5	7,984.6	26.3	22.6	93.96	-479.5	889.2	297.2	262.4	34.73	8.557	
8,200.0	8,084.3	8,170.5	8,084.6	26.4	22.7	94.03	-480.1	888.3	297.2	262.2	35.01	8.489	
8,300.0	8,184.3	8,270.5	8,184.6	26.5	22.8	94.10	-480.6	887.4	297.2	261.9	35.29	8.421	
8,400.0	8,284.3	8,370.5	8,284.6	26.5	22.9	94.17	-481.2	886.4	297.2	261.7	35.58	8.354	
8,500.0	8,384.3	8,470.5	8,384.5	26.6	23.0	94.24	-481.7	885.5	297.3	261.4	35.87	8.288	
8,600.0	8,484.3	8,570.5	8,484.5	26.7	23.1	94.31	-482.2	884.6	297.3	261.1	36.15	8.223	
8,700.0	8,584.3	8,670.5	8,584.5	26.8	23.2	94.38	-482.8	883.6	297.3	260.9	36.44	8.159	
8,800.0	8,684.3	8,770.5	8,684.5	26.9	23.3	94.45	-483.3	882.7	297.4	260.6	36.73	8.096	
8,900.0	8,784.3	8,870.5	8,784.5	27.0	23.4	94.52	-483.8	881.8	297.4	260.4	37.02	8.033	
9,000.0	8,884.3	8,970.5	8,884.5	27.1	23.5	94.59	-484.4	880.8	297.4	260.1	37.31	7.971	
9,100.0	8,984.2	9,070.5	8,984.5	27.2	23.6	94.66	-484.9	879.9	297.4	259.8	37.60	7.910	
9,200.0	9,084.2	9,170.5	9,084.5	27.3	23.7	94.73	-485.5	879.0	297.5	259.6	37.90	7.849	
9,300.0	9,184.2	9,270.5	9,184.5	27.4	23.8	94.80	-486.0	878.1	297.5	259.3	38.19	7.790	
9,400.0	9,284.2	9,370.5	9,284.5	27.5	23.9	94.87	-486.5	877.1	297.5	259.0	38.49	7.731	
9,500.0	9,384.2	9,470.5	9,384.5	27.6	24.1	94.94	-487.1	876.2	297.6	258.8	38.78	7.673	
9,600.0	9,484.2	9,570.5	9,484.5	27.7	24.2	95.01	-487.6	875.3	297.6	258.5	39.08	7.615	
9,700.0	9,584.2	9,670.5	9,584.5	27.8	24.3	95.08	-488.1	874.3	297.6	258.2	39.38	7.558	
9,800.0	9,684.2	9,770.5	9,684.5	27.9	24.4	95.15	-488.7	873.4	297.7	258.0	39.68	7.502	
9,900.0	9,784.2	9,870.5	9,784.5	28.0	24.5	95.21	-489.2	872.5	297.7	257.7	39.97	7.447	
10,000.0	9,884.2	9,970.5	9,884.5	28.1	24.6	95.28	-489.8	871.5	297.7	257.4	40.27	7.392	
10,100.0	9,984.1	10,070.5	9,984.4	28.2	24.7	95.35	-490.3	870.6	297.8	257.2	40.58	7.338	

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 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-6D - 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
10,200.0	10,084.1	10,170.5	10,084.4	28.3	24.9	95.42	-490.8	869.7	297.8	256.9	40.88	7.285	
10,300.0	10,184.1	10,270.5	10,184.4	28.4	25.0	95.49	-491.4	868.7	297.8	256.6	41.18	7.232	
10,342.9	10,227.0	10,313.4	10,227.3	28.4	25.0	95.52	-491.6	868.3	297.8	256.5	41.31	7.210	

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-7D - 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	73.91	8.4	29.0	30.2				
100.0	100.0	100.0	100.0	0.1	0.1	73.91	8.4	29.0	30.2	29.9	0.28	108.238	
200.0	200.0	200.0	200.0	0.3	0.3	73.91	8.4	29.0	30.2	29.6	0.63	48.106	
300.0	298.9	298.3	298.3	0.6	0.5	-75.00	8.1	30.7	25.5	24.4	1.04	24.397	
322.1	320.6	320.1	320.0	0.6	0.5	-82.42	8.0	31.5	25.2	24.0	1.16	21.713	CC, ES
400.0	397.2	396.9	396.8	0.9	0.7	-104.68	7.4	35.7	27.9	26.4	1.56	17.888	
500.0	495.5	496.2	495.7	1.2	0.9	-119.90	6.2	44.2	35.8	33.8	2.06	17.381	
600.0	593.8	595.9	594.6	1.6	1.2	-124.92	4.5	56.1	44.7	42.1	2.60	17.183	
700.0	692.1	695.7	693.2	2.0	1.5	-124.57	2.4	71.4	53.3	50.1	3.24	16.487	
800.0	790.4	795.4	791.4	2.3	1.8	-122.49	-0.1	88.6	61.7	57.8	3.91	15.787	
900.0	888.7	895.0	889.5	2.7	2.2	-120.90	-2.5	105.9	70.2	65.6	4.60	15.272	
1,000.0	987.0	994.6	987.5	3.1	2.5	-119.66	-5.0	123.1	78.7	73.4	5.29	14.883	
1,100.0	1,085.3	1,094.2	1,085.6	3.4	2.8	-118.65	-7.4	140.3	87.2	81.2	5.98	14.580	
1,200.0	1,183.6	1,193.9	1,183.7	3.8	3.2	-117.83	-9.9	157.5	95.7	89.1	6.68	14.339	
1,300.0	1,281.9	1,293.5	1,281.8	4.2	3.5	-117.14	-12.3	174.8	104.3	96.9	7.37	14.143	
1,400.0	1,380.2	1,393.1	1,379.9	4.5	3.9	-116.55	-14.8	192.0	112.9	104.8	8.07	13.981	
1,500.0	1,478.5	1,492.7	1,478.0	4.9	4.2	-116.05	-17.2	209.2	121.4	112.7	8.77	13.845	
1,600.0	1,576.8	1,592.4	1,576.1	5.3	4.6	-115.61	-19.7	226.5	130.0	120.6	9.47	13.728	
1,700.0	1,675.1	1,692.0	1,674.2	5.6	4.9	-115.23	-22.1	243.7	138.6	128.5	10.17	13.628	
1,800.0	1,773.4	1,791.6	1,772.3	6.0	5.3	-114.89	-24.6	260.9	147.2	136.4	10.87	13.541	
1,900.0	1,871.7	1,891.2	1,870.4	6.4	5.6	-114.59	-27.0	278.2	155.8	144.3	11.57	13.465	
2,000.0	1,970.0	1,990.9	1,968.5	6.7	6.0	-114.33	-29.5	295.4	164.4	152.2	12.27	13.397	
2,100.0	2,068.3	2,090.5	2,066.6	7.1	6.4	-114.08	-31.9	312.6	173.1	160.1	12.98	13.337	
2,200.0	2,166.6	2,190.1	2,164.7	7.5	6.7	-113.86	-34.4	329.9	181.7	168.0	13.68	13.283	
2,300.0	2,264.9	2,289.7	2,262.8	7.8	7.1	-113.67	-36.8	347.1	190.3	175.9	14.38	13.235	
2,400.0	2,363.2	2,389.4	2,360.9	8.2	7.4	-113.48	-39.3	364.3	198.9	183.8	15.08	13.191	
2,500.0	2,461.5	2,489.0	2,459.0	8.6	7.8	-113.32	-41.7	381.5	207.5	191.8	15.78	13.151	
2,600.0	2,559.8	2,588.6	2,557.0	8.9	8.1	-113.16	-44.2	398.8	216.2	199.7	16.48	13.114	
2,700.0	2,658.1	2,688.3	2,655.1	9.3	8.5	-113.02	-46.6	416.0	224.8	207.6	17.18	13.081	
2,800.0	2,756.4	2,787.9	2,753.2	9.7	8.8	-112.89	-49.1	433.2	233.4	215.5	17.89	13.050	
2,900.0	2,854.7	2,887.5	2,851.3	10.0	9.2	-112.77	-51.5	450.5	242.0	223.5	18.59	13.021	
3,000.0	2,953.0	2,987.1	2,949.4	10.4	9.5	-112.66	-54.0	467.7	250.7	231.4	19.29	12.995	
3,100.0	3,051.3	3,086.8	3,047.5	10.8	9.9	-112.55	-56.4	484.9	259.3	239.3	19.99	12.971	
3,200.0	3,149.6	3,186.4	3,145.6	11.1	10.2	-112.45	-58.9	502.2	267.9	247.2	20.69	12.948	
3,300.0	3,247.9	3,286.0	3,243.7	11.5	10.6	-112.36	-61.3	519.4	276.6	255.2	21.40	12.927	
3,400.0	3,346.2	3,385.6	3,341.8	11.9	10.9	-112.27	-63.8	536.6	285.2	263.1	22.10	12.907	
3,500.0	3,444.5	3,485.3	3,439.9	12.3	11.3	-112.19	-66.2	553.9	293.8	271.0	22.80	12.888	
3,600.0	3,542.8	3,584.9	3,538.0	12.6	11.6	-112.11	-68.7	571.1	302.5	279.0	23.50	12.871	
3,700.0	3,641.1	3,684.5	3,636.1	13.0	12.0	-112.04	-71.1	588.3	311.1	286.9	24.20	12.854	
3,800.0	3,739.4	3,784.1	3,734.2	13.4	12.4	-111.97	-73.6	605.5	319.7	294.8	24.90	12.839	
3,900.0	3,837.7	3,883.8	3,832.3	13.7	12.7	-111.90	-76.0	622.8	328.4	302.8	25.61	12.824	
4,000.0	3,936.0	3,983.4	3,930.4	14.1	13.1	-111.84	-78.4	640.0	337.0	310.7	26.31	12.810	
4,100.0	4,034.3	4,083.0	4,028.5	14.5	13.4	-111.78	-80.9	657.2	345.6	318.6	27.01	12.797	
4,200.0	4,132.6	4,182.6	4,126.6	14.8	13.8	-111.72	-83.3	674.5	354.3	326.6	27.71	12.784	
4,300.0	4,231.0	4,282.3	4,224.6	15.2	14.1	-111.67	-85.8	691.7	362.9	334.5	28.41	12.772	
4,400.0	4,329.3	4,381.9	4,322.7	15.6	14.5	-111.62	-88.2	708.9	371.5	342.4	29.12	12.761	
4,500.0	4,427.6	4,481.5	4,420.8	15.9	14.8	-111.57	-90.7	726.2	380.2	350.4	29.82	12.750	
4,600.0	4,525.9	4,581.1	4,518.9	16.3	15.2	-111.52	-93.1	743.4	388.8	358.3	30.52	12.740	
4,700.0	4,624.2	4,680.8	4,617.0	16.7	15.5	-111.48	-95.6	760.6	397.5	366.2	31.22	12.730	
4,800.0	4,722.5	4,780.4	4,715.1	17.0	15.9	-111.44	-98.0	777.9	406.1	374.2	31.92	12.721	
4,900.0	4,820.8	4,880.0	4,813.2	17.4	16.2	-111.40	-100.5	795.1	414.7	382.1	32.62	12.712	
5,000.0	4,919.1	4,979.6	4,911.3	17.8	16.6	-111.36	-102.9	812.3	423.4	390.0	33.33	12.704	

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 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-7D - 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
5,100.0	5,017.4	5,079.3	5,009.4	18.1	17.0	-111.32	-105.4	829.5	432.0	398.0	34.03	12.695	
5,200.0	5,115.7	5,178.9	5,107.5	18.5	17.3	-111.28	-107.8	846.8	440.6	405.9	34.73	12.688	
5,300.0	5,214.0	5,278.5	5,205.6	18.9	17.7	-111.25	-110.3	864.0	449.3	413.9	35.43	12.680	
5,400.0	5,312.3	5,378.1	5,303.7	19.2	18.0	-111.22	-112.7	881.2	457.9	421.8	36.13	12.673	
5,500.0	5,410.6	5,477.8	5,401.8	19.6	18.4	-111.18	-115.2	898.5	466.6	429.7	36.84	12.666 SF	
5,600.0	5,508.9	5,579.2	5,502.0	20.0	18.7	-111.38	-117.4	914.2	475.0	437.5	37.47	12.676	
5,700.0	5,607.2	5,680.5	5,602.4	20.3	18.9	-111.99	-119.1	926.4	483.1	445.1	38.02	12.705	
5,800.0	5,705.5	5,781.3	5,702.9	20.7	19.1	-112.99	-120.4	935.0	491.0	452.5	38.48	12.758	
5,900.0	5,803.8	5,881.4	5,802.9	21.1	19.3	-114.35	-121.1	940.1	498.8	459.9	38.84	12.841	
6,000.0	5,902.1	5,980.7	5,902.1	21.4	19.4	-116.05	-121.3	941.7	506.8	467.7	39.10	12.961	
6,100.0	6,000.4	6,080.3	6,001.8	21.8	19.4	-117.91	-121.4	941.5	515.1	475.8	39.29	13.108	
6,200.0	6,098.7	6,179.9	6,101.4	22.2	19.5	-119.74	-121.8	940.9	523.6	484.2	39.45	13.273	
6,300.0	6,197.0	6,278.3	6,199.8	22.6	19.6	-121.51	-122.2	940.1	532.6	493.0	39.58	13.455	
6,400.0	6,295.3	6,376.5	6,298.0	22.9	19.7	-123.22	-122.7	939.3	542.0	502.3	39.69	13.655	
6,500.0	6,393.6	6,474.8	6,396.2	23.3	19.8	-124.88	-123.1	938.5	551.9	512.1	39.78	13.873	
6,600.0	6,491.9	6,573.0	6,494.4	23.7	19.9	-126.47	-123.6	937.7	562.3	522.4	39.86	14.107	
6,700.0	6,590.2	6,671.2	6,592.7	24.0	20.0	-128.01	-124.1	936.9	573.1	533.1	39.92	14.355	
6,800.0	6,688.5	6,769.5	6,690.9	24.4	20.1	-129.49	-124.5	936.1	584.2	544.3	39.97	14.617	
6,900.0	6,786.8	6,867.7	6,789.1	24.8	20.1	-130.97	-125.0	935.3	595.7	555.7	40.01	14.888	
7,000.0	6,885.6	6,966.5	6,887.9	25.0	20.2	-132.29	-125.4	934.5	605.6	565.5	40.04	15.125	
7,100.0	6,984.9	7,065.7	6,987.1	25.3	20.3	-133.30	-125.9	933.7	613.3	573.3	40.09	15.299	
7,200.0	7,084.5	7,165.3	7,086.7	25.5	20.4	-134.03	-126.4	932.9	618.8	578.7	40.17	15.405	
7,300.0	7,184.4	7,265.1	7,186.5	25.6	20.5	-134.48	-126.8	932.1	622.0	581.7	40.28	15.442	
7,400.0	7,284.4	7,365.1	7,286.5	25.7	20.6	111.20	-127.3	931.3	622.7	582.3	40.42	15.405	
7,500.0	7,384.4	7,465.1	7,386.5	25.8	20.7	111.15	-127.8	930.5	622.4	581.8	40.61	15.326	
7,600.0	7,484.4	7,565.1	7,486.5	25.9	20.8	111.12	-128.3	929.7	622.3	581.5	40.81	15.250	
7,607.5	7,491.9	7,572.6	7,494.0	25.9	20.8	111.12	-128.3	929.6	622.3	581.5	40.82	15.244	
7,700.0	7,584.4	7,665.1	7,586.5	25.9	20.9	111.14	-128.7	928.9	622.4	581.4	41.01	15.176	
7,800.0	7,684.4	7,765.1	7,686.5	26.0	21.0	111.18	-129.2	928.1	622.6	581.4	41.22	15.102	
7,900.0	7,784.4	7,865.1	7,786.5	26.1	21.1	111.22	-129.7	927.2	622.8	581.3	41.44	15.029	
8,000.0	7,884.4	7,965.1	7,886.5	26.2	21.2	111.27	-130.1	926.4	623.0	581.3	41.65	14.956	
8,100.0	7,984.4	8,065.1	7,986.5	26.3	21.3	111.31	-130.6	925.6	623.1	581.3	41.87	14.883	
8,200.0	8,084.3	8,165.1	8,086.5	26.4	21.4	111.35	-131.1	924.8	623.3	581.2	42.09	14.810	
8,300.0	8,184.3	8,265.1	8,186.5	26.5	21.6	111.40	-131.5	924.0	623.5	581.2	42.31	14.737	
8,400.0	8,284.3	8,365.1	8,286.5	26.5	21.7	111.44	-132.0	923.2	623.7	581.1	42.53	14.664	
8,500.0	8,384.3	8,465.1	8,386.5	26.6	21.8	111.48	-132.5	922.4	623.9	581.1	42.75	14.592	
8,600.0	8,484.3	8,565.1	8,486.4	26.7	21.9	111.52	-132.9	921.6	624.0	581.1	42.98	14.519	
8,700.0	8,584.3	8,665.1	8,586.4	26.8	22.0	111.57	-133.4	920.8	624.2	581.0	43.21	14.447	
8,800.0	8,684.3	8,765.1	8,686.4	26.9	22.1	111.61	-133.9	919.9	624.4	581.0	43.44	14.375	
8,900.0	8,784.3	8,865.1	8,786.4	27.0	22.2	111.65	-134.3	919.1	624.6	580.9	43.67	14.304	
9,000.0	8,884.3	8,965.1	8,886.4	27.1	22.3	111.69	-134.8	918.3	624.8	580.9	43.90	14.232	
9,100.0	8,984.2	9,065.1	8,986.4	27.2	22.4	111.74	-135.3	917.5	625.0	580.8	44.13	14.161	
9,200.0	9,084.2	9,165.1	9,086.4	27.3	22.6	111.78	-135.7	916.7	625.2	580.8	44.37	14.090	
9,300.0	9,184.2	9,265.1	9,186.4	27.4	22.7	111.82	-136.2	915.9	625.3	580.7	44.60	14.020	
9,400.0	9,284.2	9,365.1	9,286.4	27.5	22.8	111.86	-136.7	915.1	625.5	580.7	44.84	13.950	
9,500.0	9,384.2	9,465.1	9,386.4	27.6	22.9	111.91	-137.2	914.3	625.7	580.6	45.08	13.880	
9,600.0	9,484.2	9,565.1	9,486.4	27.7	23.0	111.95	-137.6	913.4	625.9	580.6	45.32	13.810	
9,700.0	9,584.2	9,665.1	9,586.4	27.8	23.1	111.99	-138.1	912.6	626.1	580.5	45.56	13.741	
9,800.0	9,684.2	9,765.1	9,686.4	27.9	23.3	112.03	-138.6	911.8	626.3	580.5	45.81	13.672	
9,900.0	9,784.2	9,865.1	9,786.4	28.0	23.4	112.08	-139.0	911.0	626.5	580.4	46.05	13.603	
10,000.0	9,884.2	9,965.1	9,886.4	28.1	23.5	112.12	-139.5	910.2	626.6	580.3	46.30	13.535	
10,100.0	9,984.1	10,065.1	9,986.4	28.2	23.6	112.16	-140.0	909.4	626.8	580.3	46.55	13.467	

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 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-7D - 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
10,200.0	10,084.1	10,165.1	10,086.4	28.3	23.7	112.20	-140.4	908.6	627.0	580.2	46.80	13.399	
10,300.0	10,184.1	10,265.1	10,186.3	28.4	23.9	112.25	-140.9	907.8	627.2	580.2	47.05	13.332	
10,342.9	10,227.0	10,308.0	10,229.2	28.4	23.9	112.26	-141.1	907.4	627.3	580.1	47.15	13.303	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-8D - 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	74.08	12.4	43.4	45.2				
100.0	100.0	100.0	100.0	0.1	0.1	74.08	12.4	43.4	45.2	44.9	0.28	161.697	
200.0	200.0	200.0	200.0	0.3	0.3	74.08	12.4	43.4	45.2	44.5	0.63	71.865	
300.0	298.9	297.6	297.6	0.6	0.5	-67.15	12.7	45.0	39.9	38.9	1.03	38.546	
342.2	340.3	338.7	338.7	0.7	0.6	-76.60	13.1	46.7	39.1	37.8	1.25	31.183	CC, ES
400.0	397.2	395.3	395.1	0.9	0.7	-88.79	13.8	49.9	40.5	38.9	1.56	25.970	
500.0	495.5	493.3	492.8	1.2	0.9	-103.95	15.6	58.1	48.3	46.2	2.10	22.990	
600.0	593.8	591.4	590.2	1.6	1.2	-111.49	18.1	69.5	60.0	57.4	2.67	22.518	
700.0	692.1	689.5	687.1	2.0	1.5	-114.08	21.3	84.2	73.7	70.4	3.28	22.474	
800.0	790.4	788.3	784.4	2.3	1.8	-114.59	24.9	101.0	88.3	84.4	3.92	22.523	
900.0	888.7	887.2	881.8	2.7	2.1	-114.94	28.6	117.9	102.9	98.3	4.57	22.517	
1,000.0	987.0	986.2	979.2	3.1	2.5	-115.20	32.3	134.7	117.4	112.2	5.22	22.490	
1,100.0	1,085.3	1,085.1	1,076.7	3.4	2.8	-115.41	36.0	151.6	132.0	126.2	5.88	22.457	
1,200.0	1,183.6	1,184.0	1,174.1	3.8	3.2	-115.57	39.6	168.4	146.6	140.1	6.54	22.422	
1,300.0	1,281.9	1,283.0	1,271.5	4.2	3.5	-115.70	43.3	185.3	161.2	154.0	7.20	22.389	
1,400.0	1,380.2	1,381.9	1,368.9	4.5	3.8	-115.82	47.0	202.2	175.8	168.0	7.86	22.359	
1,500.0	1,478.5	1,480.8	1,466.3	4.9	4.2	-115.91	50.7	219.0	190.4	181.9	8.53	22.330	
1,600.0	1,576.8	1,579.7	1,563.7	5.3	4.5	-115.99	54.3	235.9	205.0	195.8	9.19	22.304	
1,700.0	1,675.1	1,678.7	1,661.1	5.6	4.9	-116.06	58.0	252.7	219.6	209.7	9.86	22.281	
1,800.0	1,773.4	1,777.6	1,758.5	6.0	5.2	-116.12	61.7	269.6	234.2	223.7	10.52	22.259	
1,900.0	1,871.7	1,876.5	1,856.0	6.4	5.6	-116.18	65.4	286.5	248.8	237.6	11.19	22.239	
2,000.0	1,970.0	1,975.5	1,953.4	6.7	5.9	-116.23	69.0	303.3	263.4	251.5	11.85	22.221	
2,100.0	2,068.3	2,074.4	2,050.8	7.1	6.3	-116.27	72.7	320.2	278.0	265.5	12.52	22.205	
2,200.0	2,166.6	2,173.3	2,148.2	7.5	6.6	-116.31	76.4	337.1	292.6	279.4	13.19	22.189	
2,300.0	2,264.9	2,272.2	2,245.6	7.8	7.0	-116.35	80.0	353.9	307.2	293.3	13.85	22.175	
2,400.0	2,363.2	2,371.2	2,343.0	8.2	7.3	-116.38	83.7	370.8	321.8	307.3	14.52	22.162	
2,500.0	2,461.5	2,470.1	2,440.4	8.6	7.7	-116.41	87.4	387.6	336.4	321.2	15.19	22.150	
2,600.0	2,559.8	2,569.0	2,537.8	8.9	8.0	-116.43	91.1	404.5	351.0	335.1	15.85	22.139	
2,700.0	2,658.1	2,668.0	2,635.2	9.3	8.4	-116.46	94.7	421.4	365.6	349.0	16.52	22.129	
2,800.0	2,756.4	2,766.9	2,732.7	9.7	8.7	-116.48	98.4	438.2	380.2	363.0	17.19	22.119	
2,900.0	2,854.7	2,865.8	2,830.1	10.0	9.1	-116.50	102.1	455.1	394.8	376.9	17.85	22.110	
3,000.0	2,953.0	2,964.7	2,927.5	10.4	9.4	-116.52	105.8	471.9	409.4	390.8	18.52	22.101	
3,100.0	3,051.3	3,063.7	3,024.9	10.8	9.8	-116.54	109.4	488.8	424.0	404.8	19.19	22.093	
3,200.0	3,149.6	3,162.6	3,122.3	11.1	10.1	-116.56	113.1	505.7	438.6	418.7	19.86	22.086	
3,300.0	3,247.9	3,261.5	3,219.7	11.5	10.5	-116.57	116.8	522.5	453.2	432.6	20.52	22.078	
3,400.0	3,346.2	3,360.5	3,317.1	11.9	10.8	-116.59	120.5	539.4	467.8	446.6	21.19	22.072	
3,500.0	3,444.5	3,459.4	3,414.5	12.3	11.2	-116.60	124.1	556.2	482.3	460.5	21.86	22.065	
3,600.0	3,542.8	3,558.3	3,512.0	12.6	11.5	-116.62	127.8	573.1	496.9	474.4	22.53	22.059	
3,700.0	3,641.1	3,657.2	3,609.4	13.0	11.9	-116.63	131.5	590.0	511.5	488.3	23.20	22.054	
3,800.0	3,739.4	3,756.2	3,706.8	13.4	12.2	-116.64	135.2	606.8	526.1	502.3	23.86	22.048	
3,900.0	3,837.7	3,855.1	3,804.2	13.7	12.6	-116.65	138.8	623.7	540.7	516.2	24.53	22.043	
4,000.0	3,936.0	3,954.0	3,901.6	14.1	12.9	-116.66	142.5	640.6	555.3	530.1	25.20	22.038	
4,100.0	4,034.3	4,053.0	3,999.0	14.5	13.3	-116.67	146.2	657.4	569.9	544.1	25.87	22.034	
4,200.0	4,132.6	4,151.9	4,096.4	14.8	13.6	-116.68	149.9	674.3	584.5	558.0	26.53	22.029	
4,300.0	4,231.0	4,250.8	4,193.8	15.2	14.0	-116.69	153.5	691.1	599.1	571.9	27.20	22.025	
4,400.0	4,329.3	4,349.7	4,291.3	15.6	14.3	-116.70	157.2	708.0	613.7	585.9	27.87	22.021	
4,500.0	4,427.6	4,448.7	4,388.7	15.9	14.7	-116.71	160.9	724.9	628.3	599.8	28.54	22.017	
4,600.0	4,525.9	4,547.6	4,486.1	16.3	15.0	-116.72	164.6	741.7	642.9	613.7	29.21	22.013	
4,700.0	4,624.2	4,646.5	4,583.5	16.7	15.4	-116.72	168.2	758.6	657.5	627.6	29.87	22.010	
4,800.0	4,722.5	4,745.5	4,680.9	17.0	15.7	-116.73	171.9	775.4	672.1	641.6	30.54	22.006	
4,900.0	4,820.8	4,844.4	4,778.3	17.4	16.1	-116.74	175.6	792.3	686.7	655.5	31.21	22.003	
5,000.0	4,919.1	4,943.3	4,875.7	17.8	16.4	-116.74	179.3	809.2	701.3	669.4	31.88	22.000	

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 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-8D - 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
5,100.0	5,017.4	5,042.2	4,973.1	18.1	16.8	-116.75	182.9	826.0	715.9	683.4	32.55	21.997	
5,200.0	5,115.7	5,141.2	5,070.5	18.5	17.1	-116.76	186.6	842.9	730.5	697.3	33.21	21.994	
5,300.0	5,214.0	5,240.1	5,168.0	18.9	17.5	-116.76	190.3	859.7	745.1	711.2	33.88	21.991	
5,400.0	5,312.3	5,339.0	5,265.4	19.2	17.8	-116.77	193.9	876.6	759.7	725.2	34.55	21.988	
5,500.0	5,410.6	5,438.0	5,362.8	19.6	18.2	-116.77	197.6	893.5	774.3	739.1	35.22	21.986	
5,600.0	5,508.9	5,543.4	5,466.8	20.0	18.5	-116.83	201.4	910.7	788.6	752.8	35.88	21.982	
5,700.0	5,607.2	5,653.2	5,575.6	20.3	18.8	-117.15	204.5	924.9	801.8	765.3	36.48	21.979	
5,800.0	5,705.5	5,762.8	5,684.7	20.7	19.1	-117.74	206.7	935.0	813.6	776.6	37.01	21.983	
5,900.0	5,803.8	5,872.1	5,793.8	21.1	19.2	-118.58	208.0	940.9	824.3	786.8	37.47	22.000	
6,000.0	5,902.1	5,980.4	5,902.1	21.4	19.3	-119.66	208.4	942.9	833.9	796.0	37.85	22.031	
6,100.0	6,000.4	6,080.9	6,002.5	21.8	19.4	-120.76	208.3	942.7	843.1	804.9	38.20	22.073	
6,200.0	6,098.7	6,181.2	6,102.9	22.2	19.5	-121.87	207.9	942.1	852.4	813.9	38.52	22.126	
6,300.0	6,197.0	6,279.6	6,201.3	22.6	19.6	-122.95	207.5	941.3	861.8	823.0	38.84	22.191	
6,400.0	6,295.3	6,377.9	6,299.5	22.9	19.7	-124.00	207.0	940.5	871.6	832.5	39.14	22.270	
6,500.0	6,393.6	6,476.1	6,397.8	23.3	19.8	-125.02	206.6	939.7	881.6	842.2	39.43	22.360	
6,600.0	6,491.9	6,574.3	6,496.0	23.7	19.8	-126.03	206.1	938.9	891.9	852.2	39.71	22.462	
6,700.0	6,590.2	6,672.6	6,594.2	24.0	19.9	-127.01	205.6	938.1	902.5	862.5	39.98	22.574	
6,800.0	6,688.5	6,770.8	6,692.4	24.4	20.0	-127.97	205.2	937.3	913.4	873.1	40.24	22.697	
6,900.0	6,786.8	6,869.1	6,790.7	24.8	20.1	-128.95	204.7	936.5	924.3	883.8	40.50	22.822	
7,000.0	6,885.6	6,967.8	6,889.4	25.0	20.2	-129.88	204.3	935.7	933.8	893.0	40.74	22.920	
7,100.0	6,984.9	7,067.0	6,988.7	25.3	20.3	-130.60	203.8	934.9	941.1	900.1	40.96	22.978	
7,200.0	7,084.5	7,166.6	7,088.3	25.5	20.4	-131.11	203.3	934.1	946.3	905.1	41.16	22.992	
7,300.0	7,184.4	7,266.5	7,188.1	25.6	20.5	-131.43	202.9	933.3	949.1	907.8	41.34	22.959	
7,400.0	7,284.4	7,366.4	7,288.1	25.7	20.6	114.31	202.4	932.5	949.8	908.2	41.52	22.877	
7,500.0	7,384.4	7,466.4	7,388.1	25.8	20.7	114.28	201.9	931.7	949.5	907.8	41.71	22.764	
7,600.0	7,484.4	7,566.4	7,488.1	25.9	20.8	114.26	201.5	930.9	949.4	907.5	41.90	22.656	
7,607.3	7,491.7	7,573.7	7,495.3	25.9	20.8	114.26	201.4	930.8	949.4	907.4	41.92	22.648	
7,700.0	7,584.4	7,666.4	7,588.0	25.9	20.9	114.27	201.0	930.1	949.4	907.3	42.10	22.552	
7,800.0	7,684.4	7,766.4	7,688.0	26.0	21.0	114.30	200.5	929.3	949.6	907.3	42.30	22.451	
7,900.0	7,784.4	7,866.4	7,788.0	26.1	21.1	114.33	200.1	928.5	949.9	907.4	42.50	22.350	
8,000.0	7,884.4	7,966.4	7,888.0	26.2	21.2	114.35	199.6	927.6	950.1	907.4	42.70	22.249	
8,100.0	7,984.4	8,066.4	7,988.0	26.3	21.3	114.38	199.1	926.8	950.3	907.4	42.91	22.147	
8,200.0	8,084.3	8,166.4	8,088.0	26.4	21.4	114.41	198.7	926.0	950.5	907.4	43.11	22.046	
8,300.0	8,184.3	8,266.4	8,188.0	26.5	21.5	114.44	198.2	925.2	950.7	907.4	43.32	21.945	
8,400.0	8,284.3	8,366.4	8,288.0	26.5	21.6	114.46	197.7	924.4	950.9	907.4	43.53	21.844	
8,500.0	8,384.3	8,466.4	8,388.0	26.6	21.7	114.49	197.2	923.6	951.1	907.3	43.74	21.742	
8,600.0	8,484.3	8,566.4	8,488.0	26.7	21.8	114.52	196.8	922.8	951.3	907.3	43.96	21.641	
8,700.0	8,584.3	8,666.4	8,588.0	26.8	21.9	114.55	196.3	922.0	951.5	907.3	44.17	21.541	
8,800.0	8,684.3	8,766.4	8,688.0	26.9	22.0	114.57	195.8	921.2	951.7	907.3	44.39	21.440	
8,900.0	8,784.3	8,866.4	8,788.0	27.0	22.1	114.60	195.4	920.4	951.9	907.3	44.61	21.339	
9,000.0	8,884.3	8,966.4	8,888.0	27.1	22.2	114.63	194.9	919.5	952.1	907.3	44.83	21.239	
9,100.0	8,984.2	9,066.4	8,988.0	27.2	22.4	114.66	194.4	918.7	952.3	907.3	45.05	21.139	
9,200.0	9,084.2	9,166.4	9,088.0	27.3	22.5	114.68	194.0	917.9	952.5	907.3	45.28	21.039	
9,300.0	9,184.2	9,266.4	9,188.0	27.4	22.6	114.71	193.5	917.1	952.8	907.3	45.50	20.939	
9,400.0	9,284.2	9,366.4	9,288.0	27.5	22.7	114.74	193.0	916.3	953.0	907.2	45.73	20.840	
9,500.0	9,384.2	9,466.4	9,387.9	27.6	22.8	114.77	192.6	915.5	953.2	907.2	45.96	20.741	
9,600.0	9,484.2	9,566.4	9,487.9	27.7	22.9	114.79	192.1	914.7	953.4	907.2	46.19	20.642	
9,700.0	9,584.2	9,666.4	9,587.9	27.8	23.0	114.82	191.6	913.9	953.6	907.2	46.42	20.543	
9,800.0	9,684.2	9,766.4	9,687.9	27.9	23.2	114.85	191.2	913.1	953.8	907.2	46.65	20.445	
9,900.0	9,784.2	9,866.4	9,787.9	28.0	23.3	114.88	190.7	912.3	954.0	907.1	46.89	20.347	
10,000.0	9,884.2	9,966.4	9,887.9	28.1	23.4	114.90	190.2	911.5	954.2	907.1	47.12	20.250	
10,100.0	9,984.1	10,066.4	9,987.9	28.2	23.5	114.93	189.8	910.6	954.4	907.1	47.36	20.153	

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 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron E05 696 - Chevron 5-8D - 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
10,200.0	10,084.1	10,166.4	10,087.9	28.3	23.6	114.96	189.3	909.8	954.7	907.1	47.60	20.056	
10,300.0	10,184.1	10,266.4	10,187.9	28.4	23.8	114.99	188.8	909.0	954.9	907.0	47.84	19.960	
10,342.9	10,227.0	10,309.3	10,230.8	28.4	23.8	115.00	188.6	908.7	955.0	907.0	47.94	19.918	SF

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron 5-5D
Project:	Garfield County	**TVD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Reference Site:	Chevron E05 696	**MD Reference:**	WELL @ 8144.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron 5-5D	**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 #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 8144.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

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