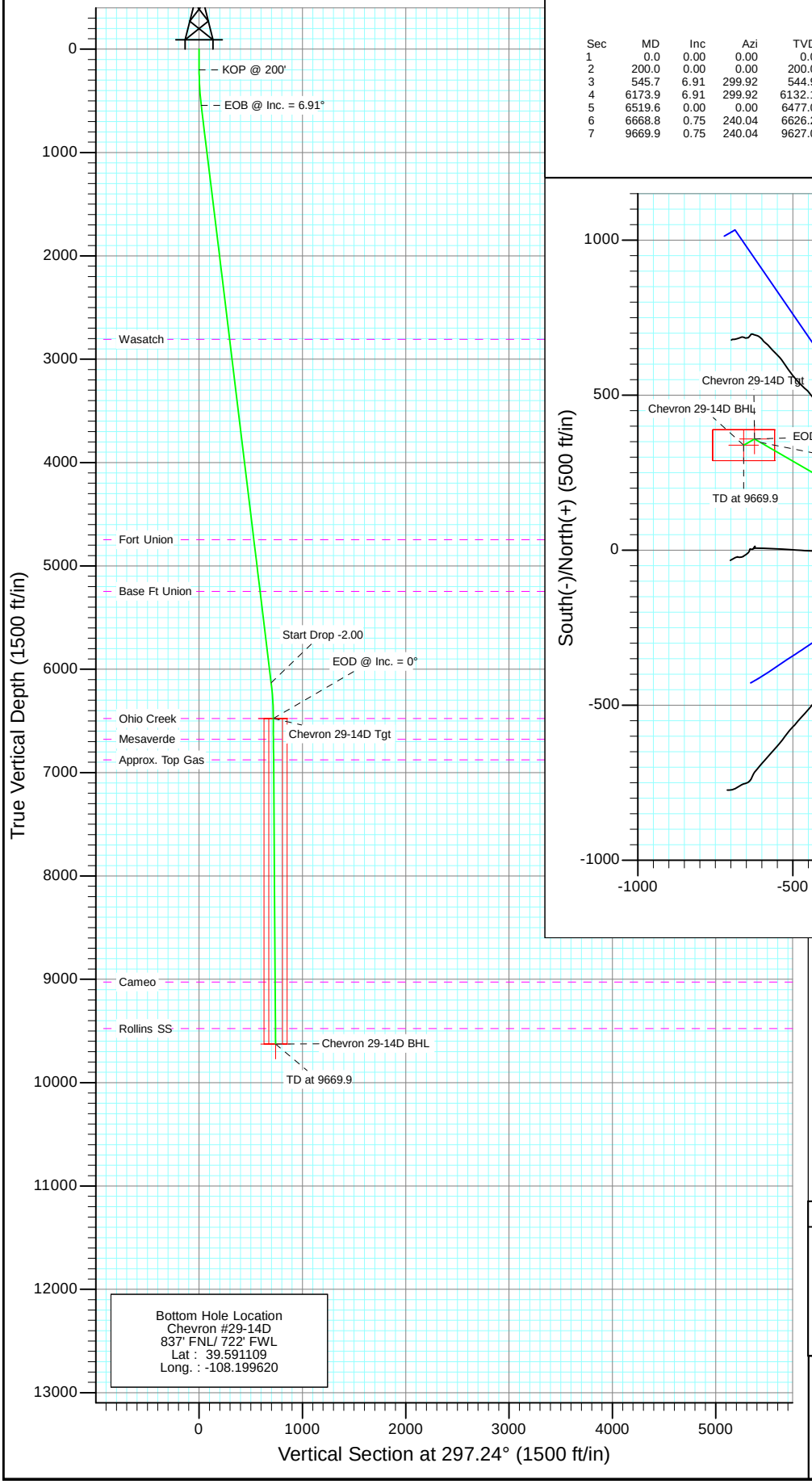
Berry Petroleum Company

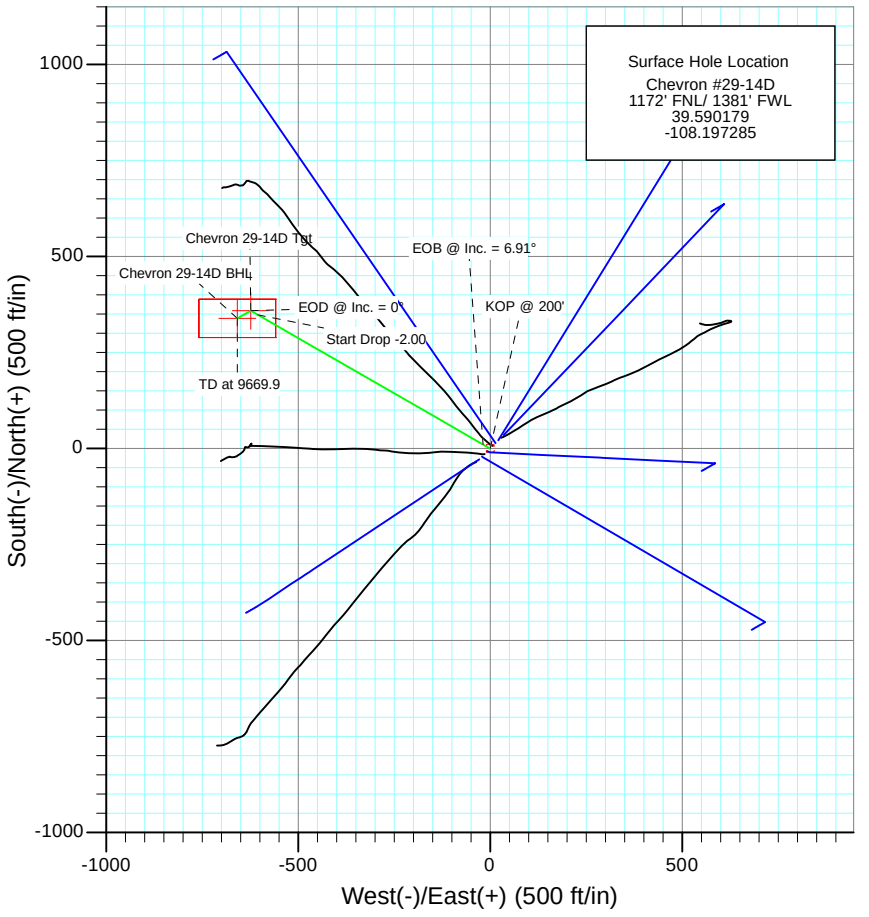
Project: Garfield County
Site: Chevron C-D29-596
Well: Chevron #29-14D
Wellbore: DD
Design: Plan #3

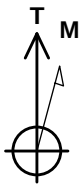
CATHEDRAL

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	545.7	6.91	299.92	544.9	10.4	-18.1	2.00	299.92	20.8	
4	6173.9	6.91	299.92	6132.1	348.4	-605.3	0.00	0.00	697.6	
5	6519.6	0.00	0.00	6477.0	358.8	-623.4	2.00	180.00	718.4	Chevron 29-14D Tgt
6	6668.8	0.75	240.04	6626.2	358.3	-624.2	0.50	240.04	719.0	
7	9669.9	0.75	240.04	9627.0	338.8	-658.0	0.00	0.00	740.1	Chevron 29-14D BHL







Azimuths to True North
Magnetic North: 10.80°

Magnetic Field
Strength: 52537.0snT
Dip Angle: 65.85°
Date: 9/22/2008
Model: IGRF2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2807.0	2824.4	Wasatch
4747.0	4778.6	Fort Union
5247.0	5282.3	Base Ft Union
6477.0	6519.6	Ohio Creek
6677.0	6719.6	Mesaverde
6877.0	6919.6	Approx. Top Gas
9027.0	9069.8	Cameo
9477.0	9519.9	Rollins SS

DESIGN DETAILS: Plan #3

JOB#:11XXXX; SC
Well @ 7896.0ft

Target	Azimuth	Origin	N/S	E/W	From TVD
Chevron 29-14D BHL	297.24	Slot	0.0	0.0	0.0

Berry Petroleum Company

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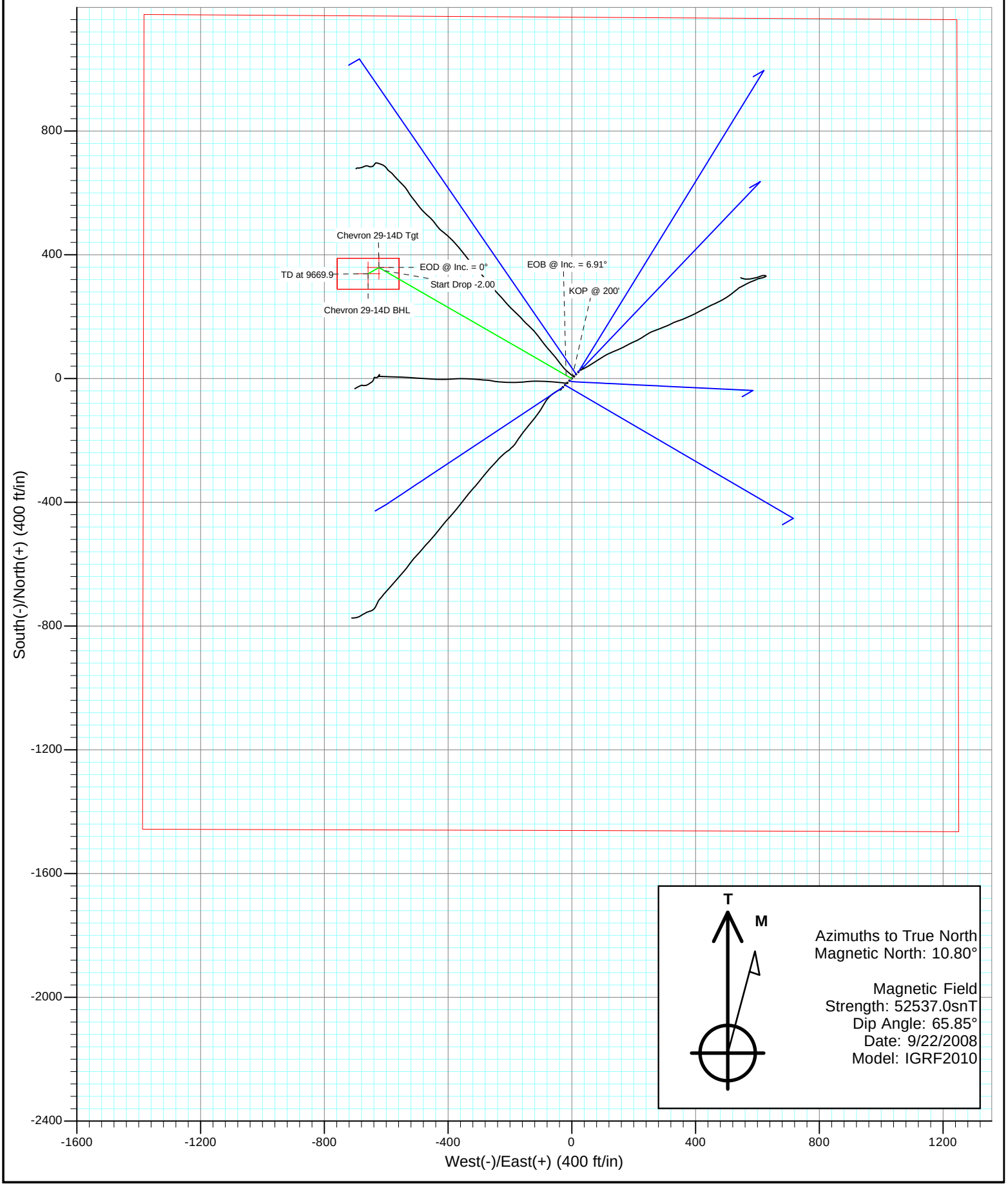
CATHEDRAL



Planning Report

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Company:	Berry Petroleum Company (NAD 83)	**TVD Reference:**	Well @ 7896.0ft
Project:	Garfield County	**MD Reference:**	Well @ 7896.0ft
Site:	Chevron C-D29-596	**North Reference:**	True
Well:	Chevron #29-14D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Project	Garfield County		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	Chevron C-D29-596				
Site Position:		**Northing:**	1,651,165.49 ft	**Latitude:**	39.590256
From:	Lat/Long	**Easting:**	2,239,989.14 ft	**Longitude:**	-108.197183
Position Uncertainty:	0.0 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	-1.70 °

Well	Chevron #29-14D				
Well Position	**+N/-S**	0.0 ft	**Northing:**	1,651,138.27 ft	**Latitude:**	39.590179
	+E/-W	0.0 ft	**Easting:**	2,239,959.58 ft	**Longitude:**	-108.197285
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	7,881.0 ft

Wellbore	DD				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	9/22/2008	10.80	65.85	52,537

Design	Plan #3				
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	297.24	

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	
545.7	6.91	299.92	544.9	10.4	-18.1	2.00	2.00	0.00	299.92	
6,173.9	6.91	299.92	6,132.1	348.4	-605.3	0.00	0.00	0.00	0.00	
6,519.6	0.00	0.00	6,477.0	358.8	-623.4	2.00	-2.00	0.00	180.00	Chevron 29-14D Tgt
6,668.8	0.75	240.04	6,626.2	358.3	-624.2	0.50	0.50	-80.39	240.04	
9,669.9	0.75	240.04	9,627.0	338.8	-658.0	0.00	0.00	0.00	0.00	Chevron 29-14D BHL

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron #29-14D
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Project:	Garfield County	**MD Reference:**	Well @ 7896.0ft
Site:	Chevron C-D29-596	**North Reference:**	True
Well:	Chevron #29-14D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
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	0.20	299.92	210.0	0.0	0.0	0.0	2.00	2.00	
240.0	0.80	299.92	240.0	0.1	-0.2	0.3	2.00	2.00	
270.0	1.40	299.92	270.0	0.4	-0.7	0.9	2.00	2.00	
300.0	2.00	299.92	300.0	0.9	-1.5	1.7	2.00	2.00	
330.0	2.60	299.92	330.0	1.5	-2.6	2.9	2.00	2.00	
360.0	3.20	299.92	359.9	2.2	-3.9	4.5	2.00	2.00	
390.0	3.80	299.92	389.9	3.1	-5.5	6.3	2.00	2.00	
420.0	4.40	299.92	419.8	4.2	-7.3	8.4	2.00	2.00	
450.0	5.00	299.92	449.7	5.4	-9.4	10.9	2.00	2.00	
480.0	5.60	299.92	479.6	6.8	-11.8	13.7	2.00	2.00	
510.0	6.20	299.92	509.4	8.4	-14.5	16.7	2.00	2.00	
540.0	6.80	299.92	539.2	10.1	-17.5	20.1	2.00	2.00	
545.7	6.91	299.92	544.9	10.4	-18.1	20.8	2.00	2.00	EOB @ Inc. = 6.91°
570.0	6.91	299.92	569.0	11.9	-20.6	23.7	0.00	0.00	
600.0	6.91	299.92	598.8	13.7	-23.7	27.3	0.00	0.00	
630.0	6.91	299.92	628.5	15.5	-26.9	30.9	0.00	0.00	
660.0	6.91	299.92	658.3	17.3	-30.0	34.6	0.00	0.00	
690.0	6.91	299.92	688.1	19.1	-33.1	38.2	0.00	0.00	
720.0	6.91	299.92	717.9	20.9	-36.2	41.8	0.00	0.00	
750.0	6.91	299.92	747.7	22.7	-39.4	45.4	0.00	0.00	
780.0	6.91	299.92	777.5	24.5	-42.5	49.0	0.00	0.00	
810.0	6.91	299.92	807.2	26.3	-45.6	52.6	0.00	0.00	
840.0	6.91	299.92	837.0	28.1	-48.8	56.2	0.00	0.00	
870.0	6.91	299.92	866.8	29.9	-51.9	59.8	0.00	0.00	
900.0	6.91	299.92	896.6	31.7	-55.0	63.4	0.00	0.00	
930.0	6.91	299.92	926.4	33.5	-58.2	67.0	0.00	0.00	
960.0	6.91	299.92	956.1	35.3	-61.3	70.6	0.00	0.00	
990.0	6.91	299.92	985.9	37.1	-64.4	74.2	0.00	0.00	
1,020.0	6.91	299.92	1,015.7	38.9	-67.5	77.8	0.00	0.00	
1,050.0	6.91	299.92	1,045.5	40.7	-70.7	81.5	0.00	0.00	
1,080.0	6.91	299.92	1,075.3	42.5	-73.8	85.1	0.00	0.00	
1,110.0	6.91	299.92	1,105.1	44.3	-76.9	88.7	0.00	0.00	
1,140.0	6.91	299.92	1,134.8	46.1	-80.1	92.3	0.00	0.00	
1,170.0	6.91	299.92	1,164.6	47.9	-83.2	95.9	0.00	0.00	
1,200.0	6.91	299.92	1,194.4	49.7	-86.3	99.5	0.00	0.00	
1,230.0	6.91	299.92	1,224.2	51.5	-89.5	103.1	0.00	0.00	
1,260.0	6.91	299.92	1,254.0	53.3	-92.6	106.7	0.00	0.00	
1,290.0	6.91	299.92	1,283.7	55.1	-95.7	110.3	0.00	0.00	
1,320.0	6.91	299.92	1,313.5	56.9	-98.8	113.9	0.00	0.00	
1,350.0	6.91	299.92	1,343.3	58.7	-102.0	117.5	0.00	0.00	
1,380.0	6.91	299.92	1,373.1	60.5	-105.1	121.1	0.00	0.00	
1,410.0	6.91	299.92	1,402.9	62.3	-108.2	124.7	0.00	0.00	
1,440.0	6.91	299.92	1,432.7	64.1	-111.4	128.4	0.00	0.00	
1,470.0	6.91	299.92	1,462.4	65.9	-114.5	132.0	0.00	0.00	
1,500.0	6.91	299.92	1,492.2	67.7	-117.6	135.6	0.00	0.00	

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Site:	Chevron C-D29-596	**North Reference:**	True
Well:	Chevron #29-14D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
1,530.0	6.91	299.92	1,522.0	69.5	-120.8	139.2	0.00	0.00	
1,560.0	6.91	299.92	1,551.8	71.3	-123.9	142.8	0.00	0.00	
1,590.0	6.91	299.92	1,581.6	73.1	-127.0	146.4	0.00	0.00	
1,620.0	6.91	299.92	1,611.3	74.9	-130.1	150.0	0.00	0.00	
1,650.0	6.91	299.92	1,641.1	76.7	-133.3	153.6	0.00	0.00	
1,680.0	6.91	299.92	1,670.9	78.5	-136.4	157.2	0.00	0.00	
1,710.0	6.91	299.92	1,700.7	80.3	-139.5	160.8	0.00	0.00	
1,740.0	6.91	299.92	1,730.5	82.1	-142.7	164.4	0.00	0.00	
1,770.0	6.91	299.92	1,760.3	83.9	-145.8	168.0	0.00	0.00	
1,800.0	6.91	299.92	1,790.0	85.7	-148.9	171.6	0.00	0.00	
1,830.0	6.91	299.92	1,819.8	87.5	-152.1	175.3	0.00	0.00	
1,860.0	6.91	299.92	1,849.6	89.3	-155.2	178.9	0.00	0.00	
1,890.0	6.91	299.92	1,879.4	91.1	-158.3	182.5	0.00	0.00	
1,920.0	6.91	299.92	1,909.2	92.9	-161.4	186.1	0.00	0.00	
1,950.0	6.91	299.92	1,938.9	94.7	-164.6	189.7	0.00	0.00	
1,980.0	6.91	299.92	1,968.7	96.5	-167.7	193.3	0.00	0.00	
2,010.0	6.91	299.92	1,998.5	98.3	-170.8	196.9	0.00	0.00	
2,040.0	6.91	299.92	2,028.3	100.1	-174.0	200.5	0.00	0.00	
2,070.0	6.91	299.92	2,058.1	101.9	-177.1	204.1	0.00	0.00	
2,100.0	6.91	299.92	2,087.9	103.7	-180.2	207.7	0.00	0.00	
2,130.0	6.91	299.92	2,117.6	105.5	-183.4	211.3	0.00	0.00	
2,160.0	6.91	299.92	2,147.4	107.3	-186.5	214.9	0.00	0.00	
2,190.0	6.91	299.92	2,177.2	109.1	-189.6	218.5	0.00	0.00	
2,220.0	6.91	299.92	2,207.0	110.9	-192.7	222.2	0.00	0.00	
2,250.0	6.91	299.92	2,236.8	112.7	-195.9	225.8	0.00	0.00	
2,280.0	6.91	299.92	2,266.5	114.5	-199.0	229.4	0.00	0.00	
2,310.0	6.91	299.92	2,296.3	116.4	-202.1	233.0	0.00	0.00	
2,340.0	6.91	299.92	2,326.1	118.2	-205.3	236.6	0.00	0.00	
2,370.0	6.91	299.92	2,355.9	120.0	-208.4	240.2	0.00	0.00	
2,400.0	6.91	299.92	2,385.7	121.8	-211.5	243.8	0.00	0.00	
2,430.0	6.91	299.92	2,415.5	123.6	-214.7	247.4	0.00	0.00	
2,460.0	6.91	299.92	2,445.2	125.4	-217.8	251.0	0.00	0.00	
2,490.0	6.91	299.92	2,475.0	127.2	-220.9	254.6	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 29-14D Tgt	0.00	0.00	6,477.0	358.8	-623.4	1,651,515.42	2,239,347.15	39.591164	-108.199497
- plan misses target center by 4028.8ft at 2490.0ft MD (2475.0 TVD, 127.2 N, -220.9 E)									
- Point									
Chevron 29-14D BHL	0.00	0.00	9,627.0	338.8	-658.0	1,651,496.45	2,239,311.87	39.591109	-108.199620
- plan misses target center by 7168.5ft at 2490.0ft MD (2475.0 TVD, 127.2 N, -220.9 E)									
- Rectangle (sides W100.0 H200.0 D0.0)									

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Site:	Chevron C-D29-596	**North Reference:**	True
Well:	Chevron #29-14D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
2,500.0	6.91	299.92	2,484.9	127.8	-222.0	255.8	0.00	0.00	
2,600.0	6.91	299.92	2,584.2	133.8	-232.4	267.9	0.00	0.00	
2,700.0	6.91	299.92	2,683.5	139.8	-242.8	279.9	0.00	0.00	
2,800.0	6.91	299.92	2,782.8	145.8	-253.3	291.9	0.00	0.00	
2,824.4	6.91	299.92	2,807.0	147.2	-255.8	294.8	0.00	0.00	Wasatch
2,900.0	6.91	299.92	2,882.0	151.8	-263.7	303.9	0.00	0.00	
3,000.0	6.91	299.92	2,981.3	157.8	-274.1	316.0	0.00	0.00	
3,100.0	6.91	299.92	3,080.6	163.8	-284.6	328.0	0.00	0.00	
3,200.0	6.91	299.92	3,179.9	169.8	-295.0	340.0	0.00	0.00	
3,300.0	6.91	299.92	3,279.1	175.8	-305.4	352.0	0.00	0.00	
3,400.0	6.91	299.92	3,378.4	181.8	-315.9	364.1	0.00	0.00	
3,500.0	6.91	299.92	3,477.7	187.8	-326.3	376.1	0.00	0.00	
3,600.0	6.91	299.92	3,576.9	193.8	-336.7	388.1	0.00	0.00	
3,700.0	6.91	299.92	3,676.2	199.8	-347.2	400.1	0.00	0.00	
3,800.0	6.91	299.92	3,775.5	205.8	-357.6	412.2	0.00	0.00	
3,900.0	6.91	299.92	3,874.8	211.8	-368.0	424.2	0.00	0.00	
4,000.0	6.91	299.92	3,974.0	217.8	-378.5	436.2	0.00	0.00	
4,100.0	6.91	299.92	4,073.3	223.9	-388.9	448.2	0.00	0.00	
4,200.0	6.91	299.92	4,172.6	229.9	-399.3	460.3	0.00	0.00	
4,300.0	6.91	299.92	4,271.9	235.9	-409.8	472.3	0.00	0.00	
4,400.0	6.91	299.92	4,371.1	241.9	-420.2	484.3	0.00	0.00	
4,500.0	6.91	299.92	4,470.4	247.9	-430.6	496.3	0.00	0.00	
4,600.0	6.91	299.92	4,569.7	253.9	-441.1	508.4	0.00	0.00	
4,700.0	6.91	299.92	4,668.9	259.9	-451.5	520.4	0.00	0.00	
4,778.6	6.91	299.92	4,747.0	264.6	-459.7	529.8	0.00	0.00	Fort Union
4,800.0	6.91	299.92	4,768.2	265.9	-461.9	532.4	0.00	0.00	
4,900.0	6.91	299.92	4,867.5	271.9	-472.4	544.4	0.00	0.00	
5,000.0	6.91	299.92	4,966.8	277.9	-482.8	556.5	0.00	0.00	
5,100.0	6.91	299.92	5,066.0	283.9	-493.2	568.5	0.00	0.00	
5,200.0	6.91	299.92	5,165.3	289.9	-503.7	580.5	0.00	0.00	
5,282.3	6.91	299.92	5,247.0	294.9	-512.3	590.4	0.00	0.00	Base Ft Union
5,300.0	6.91	299.92	5,264.6	295.9	-514.1	592.5	0.00	0.00	
5,400.0	6.91	299.92	5,363.9	301.9	-524.5	604.6	0.00	0.00	
5,500.0	6.91	299.92	5,463.1	307.9	-535.0	616.6	0.00	0.00	
5,600.0	6.91	299.92	5,562.4	313.9	-545.4	628.6	0.00	0.00	
5,700.0	6.91	299.92	5,661.7	319.9	-555.8	640.6	0.00	0.00	
5,800.0	6.91	299.92	5,760.9	326.0	-566.3	652.7	0.00	0.00	
5,900.0	6.91	299.92	5,860.2	332.0	-576.7	664.7	0.00	0.00	
6,000.0	6.91	299.92	5,959.5	338.0	-587.1	676.7	0.00	0.00	
6,100.0	6.91	299.92	6,058.8	344.0	-597.6	688.8	0.00	0.00	
6,173.9	6.91	299.92	6,132.1	348.4	-605.3	697.6	0.00	0.00	Start Drop -2.00
6,200.0	6.39	299.92	6,158.1	349.9	-607.9	700.7	2.00	-2.00	
6,300.0	4.39	299.92	6,257.6	354.6	-616.1	710.0	2.00	-2.00	
6,400.0	2.39	299.92	6,357.4	357.6	-621.2	716.0	2.00	-2.00	
6,500.0	0.39	299.92	6,457.4	358.8	-623.3	718.4	2.00	-2.00	
6,519.6	0.00	0.00	6,477.0	358.8	-623.4	718.4	2.00	-2.00	EOD @ Inc. = 0° - Ohio Creek - Chevron 29-14
6,600.0	0.40	240.04	6,557.4	358.7	-623.6	718.6	0.50	0.50	
6,668.8	0.75	240.04	6,626.2	358.3	-624.2	719.0	0.50	0.50	
6,700.0	0.75	240.04	6,657.4	358.1	-624.5	719.2	0.00	0.00	
6,719.6	0.75	240.04	6,677.0	358.0	-624.8	719.3	0.00	0.00	Mesaverde
6,800.0	0.75	240.04	6,757.4	357.5	-625.7	719.9	0.00	0.00	
6,900.0	0.75	240.04	6,857.4	356.8	-626.8	720.6	0.00	0.00	

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Company:	Berry Petroleum Company (NAD 83)	**TVD Reference:**	Well @ 7896.0ft
Project:	Garfield County	**MD Reference:**	Well @ 7896.0ft
Site:	Chevron C-D29-596	**North Reference:**	True
Well:	Chevron #29-14D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
6,919.6	0.75	240.04	6,877.0	356.7	-627.0	720.7	0.00	0.00	Approx. Top Gas
7,000.0	0.75	240.04	6,957.4	356.2	-627.9	721.3	0.00	0.00	
7,100.0	0.75	240.04	7,057.3	355.5	-629.1	722.0	0.00	0.00	
7,200.0	0.75	240.04	7,157.3	354.9	-630.2	722.7	0.00	0.00	
7,300.0	0.75	240.04	7,257.3	354.2	-631.3	723.4	0.00	0.00	
7,400.0	0.75	240.04	7,357.3	353.6	-632.4	724.1	0.00	0.00	
7,500.0	0.75	240.04	7,457.3	352.9	-633.6	724.8	0.00	0.00	
7,600.0	0.75	240.04	7,557.3	352.3	-634.7	725.5	0.00	0.00	
7,700.0	0.75	240.04	7,657.3	351.6	-635.8	726.2	0.00	0.00	
7,800.0	0.75	240.04	7,757.3	351.0	-637.0	727.0	0.00	0.00	
7,900.0	0.75	240.04	7,857.3	350.3	-638.1	727.7	0.00	0.00	
8,000.0	0.75	240.04	7,957.3	349.7	-639.2	728.4	0.00	0.00	
8,100.0	0.75	240.04	8,057.3	349.0	-640.3	729.1	0.00	0.00	
8,200.0	0.75	240.04	8,157.3	348.4	-641.5	729.8	0.00	0.00	
8,300.0	0.75	240.04	8,257.2	347.7	-642.6	730.5	0.00	0.00	
8,400.0	0.75	240.04	8,357.2	347.1	-643.7	731.2	0.00	0.00	
8,500.0	0.75	240.04	8,457.2	346.4	-644.9	731.9	0.00	0.00	
8,600.0	0.75	240.04	8,557.2	345.8	-646.0	732.6	0.00	0.00	
8,700.0	0.75	240.04	8,657.2	345.1	-647.1	733.3	0.00	0.00	
8,800.0	0.75	240.04	8,757.2	344.5	-648.2	734.0	0.00	0.00	
8,900.0	0.75	240.04	8,857.2	343.8	-649.4	734.7	0.00	0.00	
9,000.0	0.75	240.04	8,957.2	343.2	-650.5	735.4	0.00	0.00	
9,069.8	0.75	240.04	9,027.0	342.7	-651.3	735.9	0.00	0.00	Cameo
9,100.0	0.75	240.04	9,057.2	342.5	-651.6	736.1	0.00	0.00	
9,200.0	0.75	240.04	9,157.2	341.9	-652.7	736.8	0.00	0.00	
9,300.0	0.75	240.04	9,257.2	341.2	-653.9	737.5	0.00	0.00	
9,400.0	0.75	240.04	9,357.2	340.6	-655.0	738.2	0.00	0.00	
9,500.0	0.75	240.04	9,457.1	339.9	-656.1	738.9	0.00	0.00	
9,519.9	0.75	240.04	9,477.0	339.8	-656.4	739.1	0.00	0.00	Rollins SS
9,600.0	0.75	240.04	9,557.1	339.3	-657.3	739.7	0.00	0.00	
9,669.9	0.75	240.04	9,627.0	338.8	-658.0	740.1	0.00	0.00	Chevron 29-14D 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 29-14D Tgt - plan hits target center - Point	0.00	0.00	6,477.0	358.8	-623.4	1,651,515.42	2,239,347.15	39.591164	-108.199497
Chevron 29-14D BHL - plan hits target center - Rectangle (sides W100.0 H200.0 D0.0)	0.00	0.00	9,627.0	338.8	-658.0	1,651,496.45	2,239,311.87	39.591109	-108.199620

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Company:	Berry Petroleum Company (NAD 83)	**TVD Reference:**	Well @ 7896.0ft
Project:	Garfield County	**MD Reference:**	Well @ 7896.0ft
Site:	Chevron C-D29-596	**North Reference:**	True
Well:	Chevron #29-14D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,824.4	2,807.0	Wasatch			
4,778.6	4,747.0	Fort Union			
5,282.3	5,247.0	Base Ft Union			
6,519.6	6,477.0	Ohio Creek			
6,719.6	6,677.0	Mesaverde			
6,919.6	6,877.0	Approx. Top Gas			
9,069.8	9,027.0	Cameo			
9,519.9	9,477.0	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'
545.7	544.9	10.4	-18.1	EOB @ Inc. = 6.91°
6,173.9	6,132.1	348.4	-605.3	Start Drop -2.00
6,519.6	6,477.0	358.8	-623.4	EOD @ Inc. = 0°
9,669.9	9,627.0	338.8	-658.0	TD at 9669.9

Berry Petroleum Company (NAD 83)

Garfield County
Chevron C-D29-596
Chevron #29-14D
DD
Plan #3

Anticollision Report

06 January, 2011

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Reference Plan #3

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 1,167.0ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**		

Survey Tool Program **Date** 1/6/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	9,669.9	Plan #3 (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 C-D29-596						
Chevron #29-7D - DD - Plan #4	200.0	200.0	50.0	49.4	77.467	CC, ES
Chevron #29-7D - DD - Plan #4	500.0	492.9	71.1	69.4	40.777	SF
Chevron #29-11D - DD - DD	0.0	10.0	20.0			
Chevron #29-11D - DD - DD	9,600.0	9,606.7	374.6	333.4	9.079	SF
Chevron #29-12D - DD - DD	0.0	10.0	40.2			
Chevron #29-12D - DD - DD	500.0	503.2	66.0	64.3	38.248	SF
Chevron #29-13D - DD - Plan #3	280.0	280.0	9.6	8.7	10.334	CC, ES
Chevron #29-13D - DD - Plan #3	300.0	299.9	9.7	8.7	9.679	SF
Chevron #29-15D - DD - DD	191.3	201.4	9.3	8.7	15.072	CC
Chevron #29-15D - DD - DD	200.0	210.0	9.3	8.6	14.344	ES
Chevron #29-15D - DD - DD	9,208.7	9,253.7	339.4	300.8	8.807	SF
Chevron #29-16D - DD - Plan #3	200.0	200.0	20.0	19.3	30.900	CC, ES
Chevron #29-16D - DD - Plan #3	700.0	698.6	38.4	35.5	13.214	SF
Chevron #29-3D - DD - DD	0.0	10.0	49.8			
Chevron #29-3D - DD - DD	100.0	109.8	50.1	49.8	162.386	ES
Chevron #29-3D - DD - DD	9,600.0	9,578.0	1,116.3	1,075.8	27.530	SF
Chevron #29-5D - DD - Plan #3	350.7	350.7	29.0	27.8	24.207	CC, ES
Chevron #29-5D - DD - Plan #3	500.0	497.6	37.2	35.5	20.913	SF
Chevron #29-6D - DD - Plan #3	200.0	200.0	40.0	39.3	61.881	CC, ES
Chevron #29-6D - DD - Plan #3	9,600.0	9,551.9	768.8	728.8	19.184	SF
Chevron #29-8D - DD - Plan #3	200.0	200.0	30.1	29.4	46.578	CC, ES
Chevron #29-8D - DD - Plan #3	400.0	397.5	39.0	37.6	28.585	SF

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-7D - 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	45.68	35.0	35.8	50.0				
100.0	100.0	100.0	100.0	0.1	0.1	45.68	35.0	35.8	50.0	49.7	0.30	168.604	
200.0	200.0	200.0	200.0	0.3	0.3	45.68	35.0	35.8	50.0	49.4	0.65	77.467	CC, ES
300.0	300.0	298.2	298.2	0.5	0.5	107.46	36.2	37.0	52.2	51.2	1.00	52.494	
400.0	399.8	396.0	395.8	0.7	0.7	111.76	39.8	40.4	59.1	57.8	1.36	43.519	
500.0	499.5	492.9	492.4	0.9	0.9	116.98	45.8	46.1	71.1	69.4	1.74	40.777	SF
600.0	598.8	588.7	587.5	1.2	1.2	121.68	54.0	54.0	88.3	86.1	2.15	41.108	
700.0	698.0	686.2	684.0	1.4	1.4	124.76	63.8	63.3	108.0	105.4	2.56	42.134	
800.0	797.3	784.1	781.0	1.7	1.7	126.89	73.7	72.8	127.9	124.9	2.98	42.855	
900.0	896.6	882.0	877.9	2.0	2.0	128.45	83.6	82.2	147.9	144.5	3.41	43.380	
1,000.0	995.9	979.9	974.9	2.2	2.3	129.63	93.5	91.7	168.1	164.2	3.84	43.776	
1,100.0	1,095.1	1,077.8	1,071.8	2.5	2.6	130.56	103.4	101.1	188.3	184.0	4.27	44.082	
1,200.0	1,194.4	1,175.7	1,168.7	2.8	2.9	131.31	113.3	110.5	208.5	203.8	4.70	44.326	
1,300.0	1,293.7	1,273.6	1,265.7	3.0	3.2	131.93	123.2	120.0	228.7	223.6	5.14	44.523	
1,400.0	1,392.9	1,371.5	1,362.6	3.3	3.4	132.45	133.1	129.4	249.0	243.4	5.57	44.686	
1,500.0	1,492.2	1,469.4	1,459.6	3.6	3.7	132.89	143.0	138.9	269.3	263.3	6.01	44.823	
1,600.0	1,591.5	1,567.3	1,556.5	3.9	4.0	133.26	152.9	148.3	289.6	283.2	6.44	44.939	
1,700.0	1,690.8	1,665.2	1,653.4	4.1	4.3	133.59	162.8	157.7	309.9	303.0	6.88	45.038	
1,800.0	1,790.0	1,763.1	1,750.4	4.4	4.6	133.88	172.7	167.2	330.3	322.9	7.32	45.125	
1,900.0	1,889.3	1,861.0	1,847.3	4.7	4.9	134.13	182.6	176.6	350.6	342.8	7.76	45.200	
2,000.0	1,988.6	1,958.9	1,944.3	4.9	5.2	134.36	192.5	186.1	370.9	362.7	8.19	45.267	
2,100.0	2,087.9	2,056.8	2,041.2	5.2	5.5	134.56	202.4	195.5	391.3	382.6	8.63	45.326	
2,200.0	2,187.1	2,154.7	2,138.1	5.5	5.8	134.75	212.3	204.9	411.6	402.5	9.07	45.379	
2,300.0	2,286.4	2,252.6	2,235.1	5.8	6.1	134.91	222.2	214.4	432.0	422.5	9.51	45.427	
2,400.0	2,385.7	2,350.5	2,332.0	6.0	6.4	135.06	232.1	223.8	452.3	442.4	9.95	45.470	
2,500.0	2,484.9	2,448.4	2,429.0	6.3	6.7	135.20	242.0	233.3	472.7	462.3	10.39	45.509	
2,600.0	2,584.2	2,546.3	2,525.9	6.6	7.0	135.33	251.9	242.7	493.0	482.2	10.83	45.545	
2,700.0	2,683.5	2,644.2	2,622.8	6.9	7.3	135.44	261.8	252.1	513.4	502.1	11.26	45.577	
2,800.0	2,782.8	2,742.1	2,719.8	7.1	7.5	135.55	271.7	261.6	533.8	522.0	11.70	45.607	
2,900.0	2,882.0	2,840.0	2,816.7	7.4	7.8	135.65	281.6	271.0	554.1	542.0	12.14	45.635	
3,000.0	2,981.3	2,937.9	2,913.7	7.7	8.1	135.74	291.5	280.5	574.5	561.9	12.58	45.661	
3,100.0	3,080.6	3,035.8	3,010.6	8.0	8.4	135.83	301.4	289.9	594.8	581.8	13.02	45.684	
3,200.0	3,179.9	3,133.7	3,107.5	8.2	8.7	135.91	311.3	299.4	615.2	601.8	13.46	45.706	
3,300.0	3,279.1	3,231.6	3,204.5	8.5	9.0	135.98	321.1	308.8	635.6	621.7	13.90	45.727	
3,400.0	3,378.4	3,329.5	3,301.4	8.8	9.3	136.06	331.0	318.2	656.0	641.6	14.34	45.746	
3,500.0	3,477.7	3,427.4	3,398.4	9.1	9.6	136.12	340.9	327.7	676.3	661.5	14.78	45.764	
3,600.0	3,576.9	3,525.3	3,495.3	9.3	9.9	136.18	350.8	337.1	696.7	681.5	15.22	45.781	
3,700.0	3,676.2	3,623.2	3,592.2	9.6	10.2	136.24	360.7	346.6	717.1	701.4	15.66	45.797	
3,800.0	3,775.5	3,721.1	3,689.2	9.9	10.5	136.30	370.6	356.0	737.4	721.3	16.10	45.812	
3,900.0	3,874.8	3,819.0	3,786.1	10.1	10.8	136.35	380.5	365.4	757.8	741.3	16.54	45.826	
4,000.0	3,974.0	3,916.9	3,883.1	10.4	11.1	136.40	390.4	374.9	778.2	761.2	16.98	45.839	
4,100.0	4,073.3	4,014.8	3,980.0	10.7	11.4	136.45	400.3	384.3	798.6	781.2	17.42	45.852	
4,200.0	4,172.6	4,112.7	4,076.9	11.0	11.7	136.49	410.2	393.8	818.9	801.1	17.86	45.864	
4,300.0	4,271.9	4,210.6	4,173.9	11.2	12.0	136.54	420.1	403.2	839.3	821.0	18.30	45.875	
4,400.0	4,371.1	4,308.5	4,270.8	11.5	12.3	136.58	430.0	412.6	859.7	841.0	18.74	45.886	
4,500.0	4,470.4	4,406.4	4,367.8	11.8	12.5	136.62	439.9	422.1	880.1	860.9	19.18	45.896	
4,600.0	4,569.7	4,504.3	4,464.7	12.1	12.8	136.65	449.8	431.5	900.5	880.8	19.62	45.906	
4,700.0	4,668.9	4,602.2	4,561.6	12.3	13.1	136.69	459.7	441.0	920.8	900.8	20.05	45.916	
4,800.0	4,768.2	4,700.1	4,658.6	12.6	13.4	136.72	469.6	450.4	941.2	920.7	20.49	45.925	
4,900.0	4,867.5	4,798.0	4,755.5	12.9	13.7	136.76	479.5	459.8	961.6	940.7	20.93	45.933	
5,000.0	4,966.8	4,895.9	4,852.5	13.2	14.0	136.79	489.4	469.3	982.0	960.6	21.37	45.941	
5,100.0	5,066.0	4,993.8	4,949.4	13.4	14.3	136.82	499.3	478.7	1,002.3	980.5	21.81	45.949	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-7D - 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
5,200.0	5,165.3	5,091.7	5,046.3	13.7	14.6	136.85	509.2	488.2	1,022.7	1,000.5	22.25	45.957	
5,300.0	5,264.6	5,189.6	5,143.3	14.0	14.9	136.87	519.1	497.6	1,043.1	1,020.4	22.69	45.964	
5,400.0	5,363.9	5,287.5	5,240.2	14.3	15.2	136.90	529.0	507.0	1,063.5	1,040.4	23.13	45.971	
5,500.0	5,463.1	5,385.4	5,337.2	14.5	15.5	136.93	538.9	516.5	1,083.9	1,060.3	23.57	45.977	
5,600.0	5,562.4	5,483.3	5,434.1	14.8	15.8	136.95	548.8	525.9	1,104.2	1,080.2	24.01	45.984	
5,700.0	5,661.7	5,581.2	5,531.0	15.1	16.1	136.97	558.7	535.4	1,124.6	1,100.2	24.45	45.990	
5,800.0	5,760.9	5,679.1	5,628.0	15.4	16.4	137.00	568.6	544.8	1,145.0	1,120.1	24.89	45.996	
5,900.0	5,860.2	5,777.0	5,724.9	15.6	16.7	137.02	578.5	554.2	1,165.4	1,140.1	25.33	46.001	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-11D - DD - DD

Survey Program: 201-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
0.0	0.0	10.0	10.0	0.0	0.0	-135.22	-14.2	-14.1	20.0				
100.0	100.0	109.9	109.9	0.1	0.2	-134.73	-14.3	-14.4	20.3	20.0	0.31	64.792	
200.0	200.0	209.8	209.7	0.3	0.3	-133.50	-14.6	-15.4	21.2	20.6	0.64	33.072	
300.0	300.0	309.6	309.6	0.5	0.5	-75.58	-15.1	-17.1	22.4	21.4	1.00	22.491	
400.0	399.8	409.4	409.4	0.7	0.7	-82.28	-14.9	-20.2	23.2	21.9	1.37	16.931	
500.0	499.5	509.0	508.7	0.9	0.9	-89.25	-13.9	-26.4	25.2	23.4	1.80	14.048	
600.0	598.8	608.5	607.7	1.2	1.1	-94.93	-12.7	-35.9	29.0	26.8	2.27	12.779	
700.0	698.0	707.8	706.3	1.4	1.4	-95.59	-11.7	-48.1	34.3	31.5	2.78	12.334	
800.0	797.3	807.2	804.4	1.7	1.7	-91.72	-11.1	-63.9	41.6	38.3	3.33	12.495	
900.0	896.6	906.4	901.9	2.0	2.0	-85.80	-9.5	-82.2	49.6	45.7	3.88	12.782	
1,000.0	995.9	1,005.0	998.5	2.2	2.4	-80.74	-8.4	-101.9	59.2	54.8	4.40	13.441	
1,100.0	1,095.1	1,103.8	1,095.2	2.5	2.8	-77.40	-8.3	-122.2	70.3	65.4	4.92	14.284	
1,200.0	1,194.4	1,203.0	1,192.3	2.8	3.1	-75.71	-9.6	-142.2	82.3	76.9	5.44	15.140	
1,300.0	1,293.7	1,302.5	1,290.0	3.0	3.5	-75.08	-11.4	-161.4	94.1	88.2	5.96	15.791	
1,400.0	1,392.9	1,404.5	1,390.3	3.3	3.9	-74.93	-12.6	-179.7	104.6	98.1	6.50	16.088	
1,500.0	1,492.2	1,506.2	1,490.7	3.6	4.2	-75.03	-12.5	-196.0	112.7	105.7	7.03	16.023	
1,600.0	1,591.5	1,606.6	1,590.0	3.9	4.5	-75.47	-11.9	-210.5	119.4	111.8	7.57	15.773	
1,700.0	1,690.8	1,707.4	1,689.9	4.1	4.8	-76.15	-11.3	-224.2	125.5	117.3	8.11	15.462	
1,800.0	1,790.0	1,808.4	1,790.1	4.4	5.1	-77.16	-10.8	-236.9	130.9	122.3	8.67	15.106	
1,900.0	1,889.3	1,908.8	1,889.6	4.7	5.4	-77.67	-9.0	-249.6	135.5	126.3	9.22	14.703	
2,000.0	1,988.6	2,009.3	1,989.3	4.9	5.7	-77.90	-6.5	-262.5	139.8	130.1	9.76	14.331	
2,100.0	2,087.9	2,107.4	2,086.7	5.2	5.9	-78.61	-5.2	-274.5	144.4	134.2	10.30	14.025	
2,200.0	2,187.1	2,207.4	2,185.9	5.5	6.2	-79.35	-4.5	-287.0	149.8	139.0	10.85	13.807	
2,300.0	2,286.4	2,308.0	2,285.7	5.8	6.5	-79.94	-3.3	-299.5	154.8	143.4	11.41	13.573	
2,400.0	2,385.7	2,404.3	2,381.0	6.0	6.8	-80.09	-2.3	-313.0	160.9	148.9	11.95	13.460	
2,500.0	2,484.9	2,502.2	2,477.6	6.3	7.1	-79.59	-1.2	-329.0	168.4	156.0	12.49	13.485	
2,600.0	2,584.2	2,599.2	2,573.0	6.6	7.5	-78.78	-0.5	-346.7	177.6	164.6	13.01	13.650	
2,700.0	2,683.5	2,700.1	2,672.3	6.9	7.8	-78.30	-0.4	-364.4	186.7	173.2	13.54	13.796	
2,800.0	2,782.8	2,798.6	2,769.3	7.1	8.2	-78.11	-1.0	-381.3	196.2	182.1	14.06	13.950	
2,900.0	2,882.0	2,899.6	2,868.9	7.4	8.5	-78.14	-1.9	-397.8	205.3	190.7	14.61	14.053	
3,000.0	2,981.3	2,999.0	2,967.0	7.7	8.9	-78.14	-2.6	-414.0	214.2	199.0	15.15	14.134	
3,100.0	3,080.6	3,099.2	3,065.7	8.0	9.2	-77.78	-2.3	-431.3	223.0	207.4	15.68	14.221	
3,200.0	3,179.9	3,199.6	3,164.7	8.2	9.6	-77.59	-2.1	-448.0	231.5	215.2	16.23	14.264	
3,300.0	3,279.1	3,299.6	3,263.1	8.5	9.9	-77.07	-0.7	-465.6	239.8	223.0	16.75	14.316	
3,400.0	3,378.4	3,399.3	3,361.4	8.8	10.3	-76.75	0.2	-482.5	247.9	230.6	17.28	14.347	
3,500.0	3,477.7	3,499.6	3,460.3	9.1	10.6	-76.36	1.4	-499.7	256.1	238.3	17.80	14.383	
3,600.0	3,576.9	3,599.2	3,558.5	9.3	11.0	-76.10	2.5	-516.3	263.9	245.6	18.33	14.396	
3,700.0	3,676.2	3,699.4	3,657.2	9.6	11.3	-75.84	3.6	-533.1	271.9	253.0	18.86	14.416	
3,800.0	3,775.5	3,797.2	3,753.7	9.9	11.6	-75.64	4.5	-549.4	279.9	260.5	19.39	14.437	
3,900.0	3,874.8	3,897.6	3,852.6	10.1	12.0	-75.43	5.2	-566.5	288.3	268.4	19.91	14.480	
4,000.0	3,974.0	3,998.0	3,951.6	10.4	12.3	-75.35	5.7	-582.9	296.4	275.9	20.44	14.497	
4,100.0	4,073.3	4,105.0	4,057.5	10.7	12.6	-75.56	6.1	-598.3	303.2	282.2	20.99	14.444	
4,200.0	4,172.6	4,212.2	4,164.1	11.0	12.9	-76.31	6.7	-609.7	307.2	285.7	21.57	14.245	
4,300.0	4,271.9	4,315.1	4,266.6	11.2	13.1	-77.41	6.5	-618.3	310.4	288.2	22.15	14.010	
4,400.0	4,371.1	4,423.8	4,375.1	11.5	13.2	-78.89	6.9	-624.3	311.3	288.5	22.76	13.675	
4,500.0	4,470.4	4,529.2	4,480.5	11.8	13.4	-80.87	7.4	-626.2	309.9	286.6	23.37	13.261	
4,600.0	4,569.7	4,629.6	4,580.9	12.1	13.4	-83.16	7.5	-625.7	307.9	283.9	23.98	12.839	
4,700.0	4,668.9	4,728.7	4,680.1	12.3	13.5	-85.45	7.6	-625.1	306.3	281.7	24.56	12.469	
4,800.0	4,768.2	4,832.4	4,783.7	12.6	13.6	-87.92	8.0	-624.0	304.7	279.5	25.14	12.118	
4,900.0	4,867.5	4,932.0	4,883.3	12.9	13.7	-90.31	9.3	-622.4	302.5	276.8	25.69	11.774	
5,000.0	4,966.8	5,029.1	4,980.4	13.2	13.8	-92.51	10.7	-621.8	301.2	275.0	26.21	11.491	
5,100.0	5,066.0	5,127.9	5,079.1	13.4	13.9	-94.70	11.9	-621.6	300.8	274.1	26.71	11.265	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-11D - DD - DD

Offset Site Error: 0.0 ft

Survey Program: 201-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
5,106.9	5,072.9	5,134.7	5,085.9	13.5	13.9	-94.85	11.9	-621.6	300.8	274.1	26.74	11.251	
5,200.0	5,165.3	5,226.0	5,177.3	13.7	14.0	-96.89	12.7	-621.5	301.2	274.0	27.18	11.082	
5,300.0	5,264.6	5,318.3	5,269.6	14.0	14.2	-98.91	12.5	-622.0	303.4	275.7	27.62	10.983	
5,400.0	5,363.9	5,416.2	5,367.5	14.3	14.3	-101.02	10.8	-623.0	307.4	279.3	28.05	10.960	
5,500.0	5,463.1	5,516.1	5,467.3	14.5	14.4	-103.16	9.0	-623.8	311.9	283.5	28.45	10.963	
5,600.0	5,562.4	5,618.1	5,569.3	14.8	14.5	-105.27	7.7	-624.5	316.3	287.5	28.84	10.967	
5,700.0	5,661.7	5,716.8	5,668.0	15.1	14.7	-107.24	6.8	-625.2	320.8	291.6	29.21	10.983	
5,800.0	5,760.9	5,816.0	5,767.2	15.4	14.8	-109.14	5.8	-626.1	325.7	296.1	29.56	11.019	
5,900.0	5,860.2	5,915.1	5,866.2	15.6	14.9	-110.94	4.8	-627.2	331.1	301.2	29.89	11.075	
6,000.0	5,959.5	6,015.3	5,966.5	15.9	15.1	-112.67	3.9	-628.5	336.6	306.4	30.22	11.138	
6,100.0	6,058.8	6,115.7	6,066.9	16.2	15.2	-114.26	3.3	-630.2	342.2	311.6	30.55	11.201	
6,200.0	6,158.1	6,216.3	6,167.4	16.4	15.4	-115.79	3.1	-632.1	347.6	316.8	30.87	11.262	
6,300.0	6,257.6	6,316.7	6,267.8	16.7	15.5	-116.98	3.2	-633.7	351.9	320.7	31.15	11.297	
6,400.0	6,357.4	6,417.4	6,368.5	16.8	15.6	-117.61	3.4	-635.4	354.4	323.0	31.42	11.280	
6,500.0	6,457.4	6,516.5	6,467.6	17.0	15.8	-117.72	3.8	-637.0	355.3	323.6	31.69	11.211	
6,600.0	6,557.4	6,611.0	6,562.1	17.1	15.9	-57.64	3.3	-638.4	355.7	323.7	31.96	11.128	
6,700.0	6,657.4	6,706.8	6,657.8	17.2	16.0	-57.69	1.1	-639.1	357.4	325.2	32.22	11.093	
6,800.0	6,757.4	6,807.2	6,758.3	17.3	16.2	-57.77	-1.5	-639.8	359.4	326.9	32.49	11.061	
6,900.0	6,857.4	6,908.6	6,859.5	17.5	16.3	-57.83	-3.9	-640.6	361.0	328.3	32.77	11.018	
7,000.0	6,957.4	7,008.9	6,959.8	17.6	16.5	-57.83	-5.9	-641.8	362.4	329.4	33.06	10.964	
7,100.0	7,057.3	7,108.6	7,059.5	17.7	16.6	-57.75	-8.0	-643.5	363.9	330.5	33.35	10.910	
7,200.0	7,157.3	7,209.2	7,160.0	17.8	16.8	-57.64	-10.0	-645.4	365.3	331.6	33.65	10.854	
7,300.0	7,257.3	7,310.6	7,261.5	18.0	16.9	-57.49	-11.8	-647.5	366.4	332.4	33.96	10.788	
7,400.0	7,357.3	7,411.5	7,362.3	18.1	17.1	-57.33	-13.2	-649.7	367.2	332.9	34.27	10.713	
7,500.0	7,457.3	7,511.1	7,461.9	18.2	17.2	-57.21	-14.5	-651.7	367.8	333.3	34.57	10.639	
7,600.0	7,557.3	7,611.3	7,562.1	18.4	17.4	-57.11	-15.8	-653.5	368.6	333.7	34.88	10.568	
7,700.0	7,657.3	7,712.3	7,663.0	18.5	17.5	-57.02	-17.0	-655.2	369.2	334.0	35.18	10.495	
7,800.0	7,757.3	7,813.4	7,764.1	18.6	17.7	-56.95	-17.9	-656.8	369.4	334.0	35.48	10.413	
7,900.0	7,857.3	7,912.1	7,862.8	18.8	17.8	-56.89	-18.9	-658.3	369.8	334.0	35.78	10.336	
8,000.0	7,957.3	8,012.8	7,963.5	18.9	18.0	-56.86	-19.9	-659.7	370.2	334.1	36.08	10.261	
8,100.0	8,057.3	8,113.0	8,063.7	19.1	18.2	-56.77	-20.8	-661.4	370.5	334.1	36.38	10.182	
8,200.0	8,157.3	8,213.8	8,164.5	19.2	18.3	-56.60	-21.6	-663.6	370.6	333.9	36.70	10.099	
8,300.0	8,257.2	8,315.1	8,265.7	19.3	18.5	-56.49	-22.1	-665.5	370.5	333.5	37.01	10.011	
8,400.0	8,357.2	8,415.4	8,366.0	19.5	18.6	-56.37	-22.2	-667.4	370.1	332.7	37.32	9.915	
8,500.0	8,457.2	8,515.0	8,465.6	19.6	18.8	-56.23	-22.6	-669.4	369.8	332.1	37.64	9.825	
8,600.0	8,557.2	8,615.9	8,566.5	19.7	18.9	-56.11	-22.8	-671.3	369.4	331.4	37.95	9.734	
8,700.0	8,657.2	8,716.6	8,667.1	19.9	19.1	-56.05	-22.7	-672.8	368.7	330.5	38.25	9.639	
8,800.0	8,757.2	8,817.9	8,768.4	20.0	19.3	-55.97	-22.5	-674.3	367.9	329.3	38.57	9.540	
8,900.0	8,857.2	8,918.7	8,869.2	20.2	19.4	-55.86	-21.9	-676.1	366.7	327.8	38.88	9.431	
9,000.0	8,957.2	9,016.4	8,966.9	20.3	19.6	-55.72	-21.5	-678.0	365.7	326.5	39.20	9.329	
9,055.8	9,013.0	9,069.8	9,020.3	20.4	19.7	-55.62	-21.6	-679.2	365.4	326.1	39.38	9.281	
9,100.0	9,057.2	9,111.7	9,062.2	20.5	19.7	-55.51	-21.9	-680.4	365.6	326.1	39.52	9.250	
9,200.0	9,157.2	9,208.6	9,159.0	20.6	19.9	-55.13	-23.4	-684.1	366.7	326.8	39.86	9.199	
9,300.0	9,257.2	9,306.8	9,257.0	20.7	20.1	-54.66	-25.5	-688.3	368.5	328.3	40.21	9.163	
9,400.0	9,357.2	9,407.0	9,357.2	20.9	20.3	-54.18	-27.9	-692.7	370.5	329.9	40.56	9.133	
9,500.0	9,457.1	9,505.9	9,456.0	21.0	20.5	-53.72	-30.2	-697.0	372.5	331.6	40.91	9.106	
9,600.0	9,557.1	9,606.7	9,556.6	21.2	20.7	-53.26	-32.6	-701.3	374.6	333.4	41.26	9.079	SF
9,669.9	9,627.0	9,610.0	9,559.9	21.3	20.7	-53.25	-32.7	-701.5	381.9	340.5	41.37	9.230	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-12D - DD - DD

Offset Site Error: 0.0 ft

Survey Program: 199-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	10.0	10.0	0.0	0.0	45.70	28.1	28.7	40.2				
100.0	100.0	109.8	109.8	0.1	0.2	45.93	28.2	29.1	40.5	40.2	0.31	129.250	
200.0	200.0	209.4	209.4	0.3	0.3	46.55	28.5	30.0	41.4	40.7	0.64	64.614	
300.0	300.0	308.2	308.2	0.5	0.5	110.21	29.4	32.7	44.6	43.6	0.99	44.926	
400.0	399.8	406.1	405.8	0.7	0.7	117.05	31.8	38.1	52.6	51.2	1.35	38.872	
500.0	499.5	503.2	502.6	0.9	0.9	124.00	36.0	45.7	66.0	64.3	1.73	38.248	SF
600.0	598.8	599.5	598.2	1.2	1.2	129.84	41.5	55.5	84.7	82.6	2.11	40.157	
700.0	698.0	695.3	693.1	1.4	1.5	133.32	48.3	66.7	105.9	103.4	2.50	42.393	
800.0	797.3	790.3	787.0	1.7	1.8	135.21	56.3	79.3	129.2	126.3	2.89	44.654	
900.0	896.6	886.8	882.0	2.0	2.1	136.25	65.4	93.1	153.9	150.6	3.30	46.663	
1,000.0	995.9	986.6	980.5	2.2	2.4	137.35	73.8	106.9	177.9	174.2	3.70	48.023	
1,100.0	1,095.1	1,086.4	1,079.3	2.5	2.7	138.69	80.1	119.1	200.1	196.0	4.11	48.738	
1,200.0	1,194.4	1,184.8	1,176.9	2.8	3.0	139.93	85.6	130.8	221.8	217.3	4.50	49.293	
1,300.0	1,293.7	1,281.6	1,272.8	3.0	3.2	141.06	90.4	142.2	243.4	238.6	4.89	49.770	
1,400.0	1,392.9	1,378.7	1,369.1	3.3	3.5	141.97	95.4	154.1	265.6	260.3	5.28	50.263	
1,500.0	1,492.2	1,481.1	1,470.7	3.6	3.8	142.74	100.9	165.9	287.2	281.5	5.69	50.500	
1,600.0	1,591.5	1,586.4	1,575.4	3.9	4.0	143.48	105.9	175.7	306.5	300.5	6.09	50.304	
1,700.0	1,690.8	1,685.6	1,674.2	4.1	4.3	144.16	110.0	183.4	324.4	317.9	6.48	50.027	
1,800.0	1,790.0	1,780.4	1,768.6	4.4	4.5	144.77	113.9	191.3	342.8	335.9	6.87	49.895	
1,900.0	1,889.3	1,879.7	1,867.5	4.7	4.7	145.30	118.3	200.0	361.7	354.4	7.26	49.810	
2,000.0	1,988.6	1,975.9	1,963.1	4.9	5.0	145.79	122.4	208.4	380.6	373.0	7.65	49.764	
2,100.0	2,087.9	2,069.9	2,056.7	5.2	5.2	146.16	126.8	217.3	400.3	392.3	8.03	49.825	
2,200.0	2,187.1	2,170.9	2,157.1	5.5	5.5	146.44	132.2	227.1	420.3	411.8	8.44	49.807	
2,300.0	2,286.4	2,270.5	2,256.1	5.8	5.7	146.61	138.1	236.1	439.6	430.8	8.84	49.703	
2,400.0	2,385.7	2,364.8	2,349.8	6.0	6.0	146.70	144.1	244.6	459.0	449.8	9.24	49.672	
2,500.0	2,484.9	2,454.7	2,439.0	6.3	6.3	146.84	149.4	254.0	479.8	470.2	9.62	49.878	
2,600.0	2,584.2	2,552.1	2,535.6	6.6	6.5	147.13	153.9	265.6	501.9	491.9	10.01	50.156	
2,700.0	2,683.5	2,647.9	2,630.7	6.9	6.8	147.41	158.2	276.5	523.4	513.0	10.39	50.373	
2,800.0	2,782.8	2,752.9	2,734.9	7.1	7.1	147.68	163.0	288.7	545.3	534.6	10.79	50.533	
2,900.0	2,882.0	2,848.7	2,830.1	7.4	7.3	147.94	166.9	298.5	565.8	554.6	11.17	50.646	
3,000.0	2,981.3	2,943.0	2,923.7	7.7	7.6	148.18	170.9	309.1	587.3	575.7	11.56	50.818	
3,100.0	3,080.6	3,034.2	3,014.2	8.0	7.9	148.27	176.1	319.9	609.4	597.4	11.95	51.013	
3,200.0	3,179.9	3,133.5	3,112.5	8.2	8.1	148.33	182.0	332.3	632.2	619.8	12.34	51.225	
3,300.0	3,279.1	3,224.2	3,202.4	8.5	8.4	148.49	186.2	343.5	654.8	642.1	12.72	51.496	
3,400.0	3,378.4	3,325.0	3,302.2	8.8	8.7	148.66	190.8	356.9	678.3	665.2	13.11	51.737	
3,500.0	3,477.7	3,433.8	3,410.1	9.1	9.0	148.81	196.1	369.7	700.4	686.9	13.52	51.793	
3,600.0	3,576.9	3,538.2	3,513.8	9.3	9.3	148.95	201.0	380.7	721.2	707.3	13.92	51.797	
3,700.0	3,676.2	3,630.4	3,605.4	9.6	9.5	149.05	205.6	390.4	742.0	727.7	14.31	51.852	
3,800.0	3,775.5	3,731.8	3,706.0	9.9	9.8	149.12	211.1	401.0	762.8	748.1	14.71	51.848	
3,900.0	3,874.8	3,816.0	3,789.6	10.1	10.1	149.17	215.8	410.5	784.3	769.2	15.08	52.000	
4,000.0	3,974.0	3,925.2	3,898.0	10.4	10.4	149.20	222.2	422.6	805.7	790.2	15.51	51.966	
4,100.0	4,073.3	4,015.9	3,987.9	10.7	10.6	149.22	227.5	432.8	827.3	811.4	15.89	52.064	
4,200.0	4,172.6	4,123.2	4,094.4	11.0	10.9	149.26	233.7	444.4	848.3	832.0	16.30	52.033	
4,300.0	4,271.9	4,220.9	4,191.5	11.2	11.2	149.35	238.4	454.5	869.0	852.3	16.69	52.053	
4,400.0	4,371.1	4,312.6	4,282.5	11.5	11.4	149.42	243.1	464.2	889.8	872.8	17.08	52.105	
4,500.0	4,470.4	4,401.5	4,370.6	11.8	11.7	149.46	248.0	474.7	912.0	894.5	17.46	52.243	
4,600.0	4,569.7	4,515.8	4,484.1	12.1	12.0	149.51	254.3	487.4	933.4	915.5	17.89	52.181	
4,700.0	4,668.9	4,613.4	4,581.0	12.3	12.3	149.50	260.4	497.0	953.6	935.3	18.29	52.127	
4,800.0	4,768.2	4,700.4	4,667.3	12.6	12.5	149.45	266.6	506.5	974.8	956.1	18.68	52.174	
4,900.0	4,867.5	4,812.1	4,777.9	12.9	12.8	149.33	275.4	519.0	996.4	977.2	19.13	52.092	
5,000.0	4,966.8	4,929.5	4,894.6	13.2	13.1	149.27	283.8	529.2	1,015.3	995.7	19.57	51.871	
5,100.0	5,066.0	5,054.9	5,019.4	13.4	13.4	149.31	290.9	537.6	1,032.4	1,012.4	20.02	51.571	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-12D - DD - DD

Offset Site Error: 0.0 ft

Survey Program: 199-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	5,165.3	5,149.1	5,113.5	13.7	13.6	149.44	294.3	542.9	1,048.4	1,028.0	20.39	51.415	
5,300.0	5,264.6	5,235.0	5,199.1	14.0	13.8	149.57	297.3	548.8	1,065.5	1,044.8	20.75	51.340	
5,400.0	5,363.9	5,307.5	5,271.3	14.3	14.0	149.63	300.6	555.0	1,084.4	1,063.3	21.10	51.398	
5,500.0	5,463.1	5,406.4	5,369.6	14.5	14.2	149.69	305.5	564.6	1,104.4	1,083.0	21.49	51.387	
5,600.0	5,562.4	5,520.0	5,482.6	14.8	14.5	149.78	310.6	574.5	1,123.5	1,101.6	21.91	51.283	
5,700.0	5,661.7	5,604.3	5,566.6	15.1	14.7	149.89	313.7	581.7	1,142.4	1,120.2	22.26	51.317	
5,800.0	5,760.9	5,708.8	5,670.6	15.4	14.9	150.02	317.4	591.2	1,161.8	1,139.2	22.66	51.281	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-13D - 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	-134.47	-6.9	-7.0	9.9				
100.0	100.0	100.0	100.0	0.1	0.1	-134.47	-6.9	-7.0	9.9	9.6	0.30	33.275	
200.0	200.0	200.0	200.0	0.3	0.3	-134.47	-6.9	-7.0	9.9	9.2	0.65	15.289	
280.0	280.0	280.0	280.0	0.5	0.5	-87.46	-7.6	-6.1	9.6	8.7	0.93	10.334	CC, ES
300.0	300.0	299.9	299.9	0.5	0.5	-94.87	-7.9	-5.6	9.7	8.7	1.00	9.679	SF
400.0	399.8	399.5	399.4	0.7	0.7	-140.63	-9.5	-1.1	14.0	12.6	1.36	10.228	
500.0	499.5	497.9	497.4	0.9	0.9	-167.79	-10.4	6.7	27.4	25.7	1.70	16.071	
600.0	598.8	595.6	594.7	1.2	1.1	-178.40	-10.9	16.4	47.2	45.2	2.04	23.097	
700.0	698.0	693.3	691.9	1.4	1.4	177.30	-11.4	26.1	68.0	65.6	2.39	28.451	
800.0	797.3	791.0	789.1	1.7	1.6	175.02	-11.9	35.8	89.1	86.3	2.74	32.489	
900.0	896.6	888.8	886.4	2.0	1.8	173.61	-12.3	45.4	110.2	107.1	3.09	35.626	
1,000.0	995.9	986.5	983.6	2.2	2.1	172.66	-12.8	55.1	131.3	127.9	3.44	38.127	
1,100.0	1,095.1	1,084.2	1,080.8	2.5	2.3	171.97	-13.3	64.8	152.5	148.7	3.80	40.167	
1,200.0	1,194.4	1,181.9	1,178.1	2.8	2.5	171.44	-13.7	74.5	173.6	169.5	4.15	41.860	
1,300.0	1,293.7	1,279.6	1,275.3	3.0	2.8	171.03	-14.2	84.2	194.8	190.3	4.50	43.288	
1,400.0	1,392.9	1,377.4	1,372.6	3.3	3.0	170.71	-14.7	93.9	216.0	211.2	4.85	44.508	
1,500.0	1,492.2	1,475.1	1,469.8	3.6	3.3	170.44	-15.2	103.6	237.3	232.0	5.21	45.562	
1,600.0	1,591.5	1,572.8	1,567.0	3.9	3.5	170.21	-15.6	113.2	258.5	252.9	5.56	46.482	
1,700.0	1,690.8	1,670.5	1,664.3	4.1	3.7	170.02	-16.1	122.9	279.7	273.8	5.91	47.292	
1,800.0	1,790.0	1,768.2	1,761.5	4.4	4.0	169.86	-16.6	132.6	300.9	294.6	6.27	48.010	
1,900.0	1,889.3	1,865.9	1,858.7	4.7	4.2	169.71	-17.0	142.3	322.1	315.5	6.62	48.652	
2,000.0	1,988.6	1,963.7	1,956.0	4.9	4.5	169.59	-17.5	152.0	343.3	336.4	6.97	49.228	
2,100.0	2,087.9	2,061.4	2,053.2	5.2	4.7	169.48	-18.0	161.7	364.6	357.2	7.33	49.748	
2,200.0	2,187.1	2,159.1	2,150.5	5.5	4.9	169.38	-18.5	171.3	385.8	378.1	7.68	50.221	
2,300.0	2,286.4	2,256.8	2,247.7	5.8	5.2	169.29	-18.9	181.0	407.0	399.0	8.04	50.651	
2,400.0	2,385.7	2,354.5	2,344.9	6.0	5.4	169.21	-19.4	190.7	428.2	419.9	8.39	51.046	
2,500.0	2,484.9	2,452.3	2,442.2	6.3	5.7	169.14	-19.9	200.4	449.5	440.7	8.74	51.408	
2,600.0	2,584.2	2,550.0	2,539.4	6.6	5.9	169.08	-20.3	210.1	470.7	461.6	9.10	51.742	
2,700.0	2,683.5	2,647.7	2,636.6	6.9	6.1	169.02	-20.8	219.8	491.9	482.5	9.45	52.051	
2,800.0	2,782.8	2,745.4	2,733.9	7.1	6.4	168.96	-21.3	229.5	513.2	503.3	9.80	52.338	
2,900.0	2,882.0	2,843.1	2,831.1	7.4	6.6	168.91	-21.8	239.1	534.4	524.2	10.16	52.604	
3,000.0	2,981.3	2,940.9	2,928.3	7.7	6.9	168.86	-22.2	248.8	555.6	545.1	10.51	52.853	
3,100.0	3,080.6	3,038.6	3,025.6	8.0	7.1	168.82	-22.7	258.5	576.8	566.0	10.87	53.085	
3,200.0	3,179.9	3,136.3	3,122.8	8.2	7.3	168.78	-23.2	268.2	598.1	586.8	11.22	53.303	
3,300.0	3,279.1	3,234.0	3,220.1	8.5	7.6	168.74	-23.6	277.9	619.3	607.7	11.57	53.507	
3,400.0	3,378.4	3,331.7	3,317.3	8.8	7.8	168.71	-24.1	287.6	640.5	628.6	11.93	53.700	
3,500.0	3,477.7	3,429.5	3,414.5	9.1	8.1	168.68	-24.6	297.3	661.8	649.5	12.28	53.881	
3,600.0	3,576.9	3,527.2	3,511.8	9.3	8.3	168.65	-25.1	306.9	683.0	670.4	12.64	54.052	
3,700.0	3,676.2	3,624.9	3,609.0	9.6	8.5	168.62	-25.5	316.6	704.2	691.2	12.99	54.213	
3,800.0	3,775.5	3,722.6	3,706.2	9.9	8.8	168.59	-26.0	326.3	725.5	712.1	13.34	54.366	
3,900.0	3,874.8	3,820.3	3,803.5	10.1	9.0	168.56	-26.5	336.0	746.7	733.0	13.70	54.511	
4,000.0	3,974.0	3,918.1	3,900.7	10.4	9.3	168.54	-26.9	345.7	767.9	753.9	14.05	54.649	
4,100.0	4,073.3	4,015.8	3,998.0	10.7	9.5	168.52	-27.4	355.4	789.1	774.7	14.41	54.780	
4,200.0	4,172.6	4,113.5	4,095.2	11.0	9.7	168.50	-27.9	365.1	810.4	795.6	14.76	54.905	
4,300.0	4,271.9	4,211.2	4,192.4	11.2	10.0	168.47	-28.4	374.7	831.6	816.5	15.11	55.024	
4,400.0	4,371.1	4,308.9	4,289.7	11.5	10.2	168.46	-28.8	384.4	852.8	837.4	15.47	55.137	
4,500.0	4,470.4	4,406.7	4,386.9	11.8	10.5	168.44	-29.3	394.1	874.1	858.3	15.82	55.245	
4,600.0	4,569.7	4,504.4	4,484.1	12.1	10.7	168.42	-29.8	403.8	895.3	879.1	16.18	55.349	
4,700.0	4,668.9	4,602.1	4,581.4	12.3	11.0	168.40	-30.2	413.5	916.5	900.0	16.53	55.448	
4,800.0	4,768.2	4,699.8	4,678.6	12.6	11.2	168.39	-30.7	423.2	937.8	920.9	16.88	55.543	
4,900.0	4,867.5	4,797.5	4,775.9	12.9	11.4	168.37	-31.2	432.8	959.0	941.8	17.24	55.634	
5,000.0	4,966.8	4,895.3	4,873.1	13.2	11.7	168.36	-31.7	442.5	980.2	962.6	17.59	55.721	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-13D - 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	5,066.0	4,993.0	4,970.3	13.4	11.9	168.34	-32.1	452.2	1,001.5	983.5	17.95	55.805	
5,200.0	5,165.3	5,090.7	5,067.6	13.7	12.2	168.33	-32.6	461.9	1,022.7	1,004.4	18.30	55.886	
5,300.0	5,264.6	5,188.4	5,164.8	14.0	12.4	168.32	-33.1	471.6	1,043.9	1,025.3	18.65	55.963	
5,400.0	5,363.9	5,286.1	5,262.0	14.3	12.6	168.30	-33.5	481.3	1,065.2	1,046.2	19.01	56.038	
5,500.0	5,463.1	5,383.9	5,359.3	14.5	12.9	168.29	-34.0	491.0	1,086.4	1,067.0	19.36	56.110	
5,600.0	5,562.4	5,481.6	5,456.5	14.8	13.1	168.28	-34.5	500.6	1,107.6	1,087.9	19.72	56.180	
5,700.0	5,661.7	5,579.3	5,553.8	15.1	13.4	168.27	-35.0	510.3	1,128.9	1,108.8	20.07	56.246	
5,800.0	5,760.9	5,677.0	5,651.0	15.4	13.6	168.26	-35.4	520.0	1,150.1	1,129.7	20.42	56.311	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-15D - DD - DD

Offset Site Error: 0.0 ft

Survey Program: 200-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	10.0	10.0	0.0	0.0	46.51	6.9	7.3	10.1				
100.0	100.0	110.1	110.1	0.1	0.2	40.23	7.4	6.3	9.7	9.4	0.31	30.850	
191.3	191.3	201.4	201.3	0.3	0.3	23.87	8.5	3.8	9.3	8.7	0.62	15.072	CC
200.0	200.0	210.0	210.0	0.3	0.3	21.74	8.6	3.4	9.3	8.6	0.65	14.344	ES
300.0	300.0	309.7	309.5	0.5	0.6	61.42	11.7	-1.2	10.9	9.9	1.04	10.494	
400.0	399.8	409.4	408.8	0.7	0.8	52.49	17.3	-7.9	14.0	12.6	1.42	9.860	
500.0	499.5	509.0	507.8	0.9	1.1	50.30	24.9	-16.4	17.4	15.5	1.84	9.456	
600.0	598.8	608.7	606.6	1.2	1.3	55.02	33.9	-25.4	20.4	18.1	2.31	8.839	
700.0	698.0	708.1	705.0	1.4	1.6	59.07	44.8	-34.4	25.3	22.5	2.81	9.001	
800.0	797.3	807.4	803.0	1.7	2.0	60.60	57.3	-43.9	31.9	28.6	3.32	9.627	
900.0	896.6	906.6	900.6	2.0	2.3	59.53	71.5	-54.9	40.3	36.5	3.81	10.577	
1,000.0	995.9	1,007.3	999.6	2.2	2.7	57.36	85.6	-67.2	48.4	44.1	4.27	11.327	
1,100.0	1,095.1	1,107.4	1,098.3	2.5	3.0	57.19	97.6	-78.1	54.4	49.6	4.75	11.442	
1,200.0	1,194.4	1,206.6	1,196.2	2.8	3.3	57.76	110.0	-88.1	60.9	55.7	5.26	11.587	
1,300.0	1,293.7	1,306.0	1,294.2	3.0	3.7	58.14	123.3	-98.3	68.3	62.6	5.76	11.865	
1,400.0	1,392.9	1,405.3	1,392.0	3.3	4.0	58.31	137.1	-108.6	76.2	69.9	6.26	12.164	
1,500.0	1,492.2	1,506.7	1,492.0	3.6	4.3	58.45	150.4	-119.2	83.3	76.5	6.76	12.316	
1,600.0	1,591.5	1,608.4	1,592.6	3.9	4.7	58.71	161.5	-129.5	88.2	81.0	7.28	12.122	
1,700.0	1,690.8	1,709.3	1,692.5	4.1	4.9	58.95	170.8	-139.7	91.4	83.6	7.79	11.742	
1,800.0	1,790.0	1,808.4	1,790.6	4.4	5.2	59.40	180.1	-149.4	94.8	86.5	8.30	11.430	
1,900.0	1,889.3	1,908.1	1,889.5	4.7	5.5	60.19	190.0	-158.4	98.8	90.0	8.83	11.193	
2,000.0	1,988.6	2,008.6	1,989.1	4.9	5.8	60.91	199.8	-167.6	102.6	93.2	9.36	10.956	
2,100.0	2,087.9	2,108.7	2,088.3	5.2	6.1	61.45	209.0	-177.0	105.7	95.8	9.90	10.684	
2,200.0	2,187.1	2,208.0	2,186.6	5.5	6.4	61.56	218.6	-187.0	109.5	99.0	10.41	10.514	
2,300.0	2,286.4	2,306.6	2,284.2	5.8	6.7	61.51	228.7	-197.3	113.7	102.7	10.91	10.415	
2,400.0	2,385.7	2,406.7	2,383.1	6.0	7.0	61.56	239.5	-207.5	118.5	107.1	11.42	10.376	
2,500.0	2,484.9	2,504.4	2,479.7	6.3	7.4	61.54	251.2	-217.6	124.4	112.5	11.93	10.432	
2,600.0	2,584.2	2,605.1	2,579.0	6.6	7.7	61.22	263.4	-228.6	130.6	118.2	12.42	10.514	
2,700.0	2,683.5	2,704.4	2,677.0	6.9	8.0	60.96	275.3	-239.4	136.5	123.6	12.92	10.572	
2,800.0	2,782.8	2,803.6	2,774.7	7.1	8.4	60.41	288.2	-251.0	143.6	130.2	13.39	10.725	
2,900.0	2,882.0	2,905.9	2,875.7	7.4	8.7	60.34	299.8	-261.8	148.9	135.0	13.88	10.723	
3,000.0	2,981.3	3,002.7	2,971.4	7.7	9.0	60.62	311.3	-271.0	154.8	140.4	14.41	10.744	
3,100.0	3,080.6	3,100.7	3,067.9	8.0	9.4	60.41	325.0	-281.7	162.8	147.9	14.90	10.927	
3,200.0	3,179.9	3,203.6	3,169.1	8.2	9.7	60.07	338.6	-293.4	170.1	154.7	15.38	11.061	
3,300.0	3,279.1	3,304.1	3,268.5	8.5	10.1	60.15	350.3	-303.6	175.7	159.9	15.90	11.057	
3,400.0	3,378.4	3,406.7	3,369.8	8.8	10.4	60.15	362.1	-314.2	181.3	164.9	16.40	11.051	
3,500.0	3,477.7	3,504.2	3,466.3	9.1	10.7	60.30	372.3	-323.9	185.7	168.8	16.92	10.975	
3,600.0	3,576.9	3,600.4	3,561.2	9.3	11.0	60.30	384.4	-333.9	192.3	174.9	17.41	11.045	
3,700.0	3,676.2	3,703.1	3,662.5	9.6	11.3	60.37	397.9	-344.3	199.5	181.5	17.93	11.124	
3,800.0	3,775.5	3,800.7	3,758.8	9.9	11.7	60.46	409.8	-354.0	205.7	187.3	18.44	11.157	
3,900.0	3,874.8	3,899.2	3,855.8	10.1	12.0	60.32	423.0	-364.8	213.2	194.3	18.94	11.257	
4,000.0	3,974.0	3,998.9	3,954.0	10.4	12.4	60.04	436.7	-376.2	220.9	201.5	19.41	11.379	
4,100.0	4,073.3	4,102.6	4,056.0	10.7	12.7	59.58	449.9	-388.7	227.7	207.8	19.90	11.443	
4,200.0	4,172.6	4,205.5	4,157.4	11.0	13.1	58.99	461.4	-401.9	232.9	212.5	20.34	11.447	
4,300.0	4,271.9	4,308.2	4,258.9	11.2	13.4	58.69	472.0	-413.9	237.2	216.4	20.81	11.398	
4,400.0	4,371.1	4,408.4	4,358.2	11.5	13.7	58.68	480.4	-424.4	239.6	218.3	21.31	11.245	
4,500.0	4,470.4	4,501.2	4,449.9	11.8	14.0	58.83	491.0	-433.6	245.1	223.3	21.81	11.237	
4,600.0	4,569.7	4,603.2	4,550.7	12.1	14.3	59.08	503.2	-443.2	251.0	228.7	22.34	11.237	
4,700.0	4,668.9	4,706.5	4,653.0	12.3	14.6	59.44	514.3	-452.4	255.7	232.8	22.90	11.170	
4,800.0	4,768.2	4,806.6	4,752.1	12.6	14.9	59.52	524.1	-462.6	259.5	236.1	23.42	11.080	
4,900.0	4,867.5	4,905.8	4,850.1	12.9	15.3	59.29	534.2	-474.0	263.8	239.9	23.89	11.041	
5,000.0	4,966.8	5,004.5	4,947.8	13.2	15.6	59.34	544.5	-484.1	268.2	243.8	24.39	10.996	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-15D - DD - DD

Offset Site Error: 0.0 ft

Survey Program: 200-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	5,066.0	5,100.1	5,042.3	13.4	15.9	59.59	555.4	-492.9	273.5	248.6	24.92	10.978	
5,200.0	5,165.3	5,197.8	5,138.7	13.7	16.2	59.69	567.9	-502.6	280.4	255.0	25.42	11.030	
5,300.0	5,264.6	5,304.4	5,244.0	14.0	16.5	59.93	581.0	-512.5	286.7	260.7	25.97	11.038	
5,400.0	5,363.9	5,398.4	5,337.1	14.3	16.8	60.26	591.4	-520.7	291.8	265.3	26.50	11.011	
5,500.0	5,463.1	5,491.5	5,428.9	14.5	17.1	60.48	604.4	-529.1	299.7	272.7	27.03	11.090	
5,600.0	5,562.4	5,594.6	5,530.3	14.8	17.5	60.42	619.5	-540.1	308.5	280.9	27.55	11.197	
5,700.0	5,661.7	5,698.0	5,632.0	15.1	17.9	60.04	633.0	-552.9	315.6	287.6	28.01	11.265	
5,800.0	5,760.9	5,797.1	5,729.5	15.4	18.2	59.71	645.6	-565.0	322.3	293.8	28.47	11.321	
5,900.0	5,860.2	5,898.6	5,829.6	15.6	18.6	59.54	658.4	-576.6	328.9	300.0	28.94	11.365	
6,000.0	5,959.5	6,015.1	5,945.0	15.9	18.9	59.56	669.2	-588.6	332.1	302.6	29.48	11.266	
6,100.0	6,058.8	6,114.9	6,044.2	16.2	19.1	60.10	676.5	-595.9	333.5	303.4	30.05	11.097	
6,200.0	6,158.1	6,217.2	6,146.0	16.4	19.4	60.82	683.9	-602.3	334.8	304.1	30.66	10.917	
6,300.0	6,257.6	6,325.3	6,253.7	16.7	19.6	61.02	690.0	-610.0	335.7	304.6	31.14	10.780	
6,400.0	6,357.4	6,429.7	6,357.6	16.8	19.8	60.43	693.4	-618.9	336.0	304.6	31.41	10.696	
6,500.0	6,457.4	6,529.8	6,457.3	17.0	20.0	59.31	696.3	-627.8	337.7	306.2	31.49	10.723	
6,600.0	6,557.4	6,652.3	6,579.6	17.1	20.2	118.18	696.8	-634.2	338.5	306.9	31.60	10.714	
6,700.0	6,657.4	6,752.0	6,679.2	17.2	20.3	117.83	693.0	-637.2	335.3	303.5	31.82	10.536	
6,800.0	6,757.4	6,848.9	6,776.0	17.3	20.4	117.56	689.8	-639.7	332.8	300.7	32.05	10.382	
6,900.0	6,857.4	6,949.9	6,876.9	17.5	20.4	117.33	686.8	-642.1	330.5	298.2	32.31	10.229	
6,981.0	6,938.3	7,023.3	6,950.3	17.6	20.5	117.14	685.5	-643.9	329.6	297.1	32.50	10.141	
7,000.0	6,957.4	7,040.7	6,967.7	17.6	20.6	117.10	685.4	-644.4	329.6	297.1	32.55	10.128	
7,100.0	7,057.3	7,140.9	7,067.9	17.7	20.7	116.75	685.1	-647.6	330.1	297.3	32.79	10.068	
7,200.0	7,157.3	7,242.0	7,168.9	17.8	20.8	116.29	684.4	-651.3	330.2	297.2	33.01	10.003	
7,300.0	7,257.3	7,335.9	7,262.7	18.0	21.0	116.08	684.8	-653.7	331.4	298.1	33.25	9.967	
7,400.0	7,357.3	7,438.8	7,365.6	18.1	21.1	116.03	685.5	-655.2	332.7	299.2	33.54	9.921	
7,500.0	7,457.3	7,537.1	7,463.9	18.2	21.2	115.93	686.3	-657.0	334.2	300.4	33.82	9.884	
7,600.0	7,557.3	7,638.9	7,565.7	18.4	21.4	115.84	686.8	-658.8	335.4	301.3	34.11	9.835	
7,700.0	7,657.3	7,737.7	7,664.5	18.5	21.5	115.65	687.3	-661.1	336.7	302.3	34.37	9.795	
7,800.0	7,757.3	7,839.9	7,766.7	18.6	21.6	115.51	687.9	-663.2	338.0	303.3	34.65	9.753	
7,900.0	7,857.3	7,943.2	7,869.9	18.8	21.8	115.29	687.2	-665.6	338.0	303.1	34.93	9.677	
8,000.0	7,957.3	8,042.8	7,969.4	18.9	21.9	115.01	686.2	-668.4	337.8	302.6	35.19	9.601	
8,100.0	8,057.3	8,143.6	8,070.2	19.1	22.0	114.68	685.3	-671.5	337.7	302.3	35.44	9.530	
8,200.0	8,157.3	8,243.5	8,170.1	19.2	22.1	114.46	684.1	-673.8	337.3	301.6	35.71	9.447	
8,277.5	8,234.8	8,320.1	8,246.6	19.3	22.2	114.35	683.4	-675.3	337.2	301.3	35.93	9.384	
8,300.0	8,257.2	8,342.2	8,268.7	19.3	22.3	114.30	683.2	-675.9	337.2	301.2	35.99	9.369	
8,400.0	8,357.2	8,442.9	8,369.3	19.5	22.4	113.95	682.5	-679.1	337.3	301.0	36.25	9.305	
8,500.0	8,457.2	8,542.7	8,469.1	19.6	22.5	113.66	681.5	-681.9	337.2	300.7	36.51	9.236	
8,512.1	8,469.3	8,554.7	8,481.1	19.6	22.5	113.64	681.4	-682.1	337.2	300.6	36.54	9.227	
8,600.0	8,557.2	8,640.1	8,566.5	19.7	22.7	113.52	681.1	-683.8	337.4	300.7	36.79	9.173	
8,700.0	8,657.2	8,743.1	8,669.5	19.9	22.8	113.36	680.7	-686.0	337.9	300.8	37.08	9.112	
8,725.4	8,682.7	8,768.0	8,694.4	19.9	22.8	113.32	680.5	-686.5	337.8	300.7	37.15	9.093	
8,800.0	8,757.2	8,839.2	8,765.5	20.0	22.9	113.18	680.3	-688.1	338.2	300.9	37.36	9.053	
8,900.0	8,857.2	8,939.9	8,866.2	20.2	23.1	112.90	680.4	-691.0	339.2	301.5	37.63	9.012	
9,000.0	8,957.2	9,039.2	8,965.5	20.3	23.2	112.68	680.5	-693.6	340.1	302.2	37.91	8.971	
9,100.0	9,057.2	9,145.0	9,071.3	20.5	23.3	112.54	679.7	-695.6	340.1	301.9	38.21	8.902	
9,200.0	9,157.2	9,245.0	9,171.2	20.6	23.5	112.42	678.3	-697.4	339.4	300.9	38.50	8.815	
9,208.7	9,165.9	9,253.7	9,180.0	20.6	23.5	112.41	678.2	-697.5	339.4	300.8	38.53	8.807	SF
9,300.0	9,257.2	9,255.0	9,181.2	20.7	23.5	112.40	678.2	-697.5	350.5	311.8	38.68	9.062	
9,400.0	9,357.2	9,255.0	9,181.2	20.9	23.5	112.40	678.2	-697.5	387.8	348.9	38.83	9.985	
9,500.0	9,457.1	9,255.0	9,181.2	21.0	23.5	112.40	678.2	-697.5	444.8	405.8	38.99	11.408	
9,600.0	9,557.1	9,255.0	9,181.2	21.2	23.5	112.40	678.2	-697.5	515.2	476.0	39.15	13.159	
9,669.9	9,627.0	9,255.0	9,181.2	21.3	23.5	112.40	678.2	-697.5	569.6	530.3	39.26	14.508	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-16D - 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	46.08	13.8	14.4	20.0				
100.0	100.0	100.0	100.0	0.1	0.1	46.08	13.8	14.4	20.0	19.7	0.30	67.252	
200.0	200.0	200.0	200.0	0.3	0.3	46.08	13.8	14.4	20.0	19.3	0.65	30.900	CC, ES
300.0	300.0	299.9	299.9	0.5	0.5	106.02	15.3	13.4	20.7	19.7	1.00	20.691	
400.0	399.8	399.7	399.6	0.7	0.7	105.67	19.6	10.4	23.0	21.6	1.39	16.578	
500.0	499.5	499.5	499.0	0.9	0.9	105.21	26.7	5.5	26.9	25.1	1.84	14.650	
600.0	598.8	599.2	597.9	1.2	1.2	103.91	36.7	-1.4	32.1	29.8	2.34	13.712	
700.0	698.0	698.6	696.1	1.4	1.5	98.48	49.5	-10.1	38.4	35.5	2.90	13.214	SF
800.0	797.3	797.6	793.3	1.7	1.9	90.60	65.0	-20.8	46.2	42.7	3.48	13.256	
900.0	896.6	896.7	890.1	2.0	2.3	82.84	82.6	-32.9	55.9	51.9	4.03	13.878	
1,000.0	995.9	996.0	987.0	2.2	2.7	77.35	100.2	-45.0	66.4	61.9	4.55	14.607	
1,100.0	1,095.1	1,095.3	1,083.9	2.5	3.1	73.38	117.9	-57.2	77.4	72.3	5.05	15.320	
1,200.0	1,194.4	1,194.5	1,180.9	2.8	3.5	70.41	135.6	-69.3	88.6	83.1	5.54	15.979	
1,300.0	1,293.7	1,293.8	1,277.8	3.0	3.9	68.10	153.3	-81.5	100.0	94.0	6.03	16.575	
1,400.0	1,392.9	1,393.1	1,374.7	3.3	4.3	66.27	170.9	-93.6	111.6	105.0	6.52	17.111	
1,500.0	1,492.2	1,492.4	1,471.7	3.6	4.7	64.79	188.6	-105.7	123.2	116.2	7.00	17.591	
1,600.0	1,591.5	1,591.6	1,568.6	3.9	5.1	63.56	206.3	-117.9	134.9	127.4	7.48	18.023	
1,700.0	1,690.8	1,690.9	1,665.5	4.1	5.5	62.53	223.9	-130.0	146.7	138.7	7.97	18.411	
1,800.0	1,790.0	1,790.2	1,762.5	4.4	5.9	61.65	241.6	-142.2	158.4	150.0	8.45	18.762	
1,900.0	1,889.3	1,889.5	1,859.4	4.7	6.3	60.89	259.3	-154.3	170.3	161.3	8.92	19.079	
2,000.0	1,988.6	1,988.7	1,956.3	4.9	6.7	60.23	276.9	-166.5	182.1	172.7	9.40	19.368	
2,100.0	2,087.9	2,088.0	2,053.3	5.2	7.2	59.66	294.6	-178.6	194.0	184.1	9.88	19.632	
2,200.0	2,187.1	2,187.3	2,150.2	5.5	7.6	59.15	312.3	-190.8	205.9	195.5	10.36	19.874	
2,300.0	2,286.4	2,286.6	2,247.1	5.8	8.0	58.69	330.0	-202.9	217.8	206.9	10.84	20.096	
2,400.0	2,385.7	2,385.8	2,344.1	6.0	8.4	58.28	347.6	-215.1	229.7	218.4	11.31	20.301	
2,500.0	2,484.9	2,485.1	2,441.0	6.3	8.8	57.91	365.3	-227.2	241.6	229.8	11.79	20.490	
2,600.0	2,584.2	2,584.4	2,537.9	6.6	9.2	57.58	383.0	-239.3	253.6	241.3	12.27	20.666	
2,700.0	2,683.5	2,683.7	2,634.9	6.9	9.6	57.28	400.6	-251.5	265.5	252.8	12.75	20.829	
2,800.0	2,782.8	2,782.9	2,731.8	7.1	10.0	57.00	418.3	-263.6	277.4	264.2	13.22	20.981	
2,900.0	2,882.0	2,882.2	2,828.7	7.4	10.5	56.75	436.0	-275.8	289.4	275.7	13.70	21.123	
3,000.0	2,981.3	2,981.5	2,925.6	7.7	10.9	56.51	453.6	-287.9	301.4	287.2	14.18	21.256	
3,100.0	3,080.6	3,080.8	3,022.6	8.0	11.3	56.30	471.3	-300.1	313.3	298.7	14.65	21.381	
3,200.0	3,179.9	3,180.0	3,119.5	8.2	11.7	56.09	489.0	-312.2	325.3	310.2	15.13	21.498	
3,300.0	3,279.1	3,279.3	3,216.4	8.5	12.1	55.91	506.7	-324.4	337.3	321.7	15.61	21.608	
3,400.0	3,378.4	3,378.6	3,313.4	8.8	12.5	55.74	524.3	-336.5	349.2	333.2	16.09	21.712	
3,500.0	3,477.7	3,477.9	3,410.3	9.1	12.9	55.57	542.0	-348.7	361.2	344.7	16.56	21.810	
3,600.0	3,576.9	3,577.1	3,507.2	9.3	13.4	55.42	559.7	-360.8	373.2	356.2	17.04	21.903	
3,700.0	3,676.2	3,676.4	3,604.2	9.6	13.8	55.28	577.3	-373.0	385.2	367.7	17.52	21.991	
3,800.0	3,775.5	3,775.7	3,701.1	9.9	14.2	55.15	595.0	-385.1	397.2	379.2	17.99	22.074	
3,900.0	3,874.8	3,875.0	3,798.0	10.1	14.6	55.02	612.7	-397.2	409.2	390.7	18.47	22.153	
4,000.0	3,974.0	3,974.2	3,895.0	10.4	15.0	54.90	630.4	-409.4	421.2	402.2	18.95	22.229	
4,100.0	4,073.3	4,073.5	3,991.9	10.7	15.4	54.79	648.0	-421.5	433.1	413.7	19.42	22.301	
4,200.0	4,172.6	4,172.8	4,088.8	11.0	15.8	54.68	665.7	-433.7	445.1	425.2	19.90	22.369	
4,300.0	4,271.9	4,272.1	4,185.8	11.2	16.3	54.58	683.4	-445.8	457.1	436.8	20.38	22.434	
4,400.0	4,371.1	4,371.3	4,282.7	11.5	16.7	54.49	701.0	-458.0	469.1	448.3	20.85	22.497	
4,500.0	4,470.4	4,470.6	4,379.6	11.8	17.1	54.40	718.7	-470.1	481.1	459.8	21.33	22.556	
4,600.0	4,569.7	4,569.9	4,476.6	12.1	17.5	54.31	736.4	-482.3	493.1	471.3	21.81	22.614	
4,700.0	4,668.9	4,669.2	4,573.5	12.3	17.9	54.23	754.0	-494.4	505.1	482.8	22.28	22.668	
4,800.0	4,768.2	4,768.4	4,670.4	12.6	18.3	54.15	771.7	-506.6	517.1	494.4	22.76	22.721	
4,900.0	4,867.5	4,867.7	4,767.4	12.9	18.7	54.08	789.4	-518.7	529.1	505.9	23.24	22.771	
5,000.0	4,966.8	4,967.0	4,864.3	13.2	19.2	54.01	807.1	-530.8	541.1	517.4	23.71	22.820	
5,100.0	5,066.0	5,066.3	4,961.2	13.4	19.6	53.94	824.7	-543.0	553.1	528.9	24.19	22.866	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-16D - 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
5,200.0	5,165.3	5,165.5	5,058.1	13.7	20.0	53.87	842.4	-555.1	565.1	540.5	24.67	22.911	
5,300.0	5,264.6	5,264.8	5,155.1	14.0	20.4	53.81	860.1	-567.3	577.1	552.0	25.14	22.954	
5,400.0	5,363.9	5,364.1	5,252.0	14.3	20.8	53.75	877.7	-579.4	589.1	563.5	25.62	22.996	
5,500.0	5,463.1	5,463.4	5,348.9	14.5	21.2	53.69	895.4	-591.6	601.1	575.0	26.10	23.036	
5,600.0	5,562.4	5,562.6	5,445.9	14.8	21.7	53.64	913.1	-603.7	613.1	586.6	26.57	23.074	
5,700.0	5,661.7	5,661.9	5,542.8	15.1	22.1	53.58	930.8	-615.9	625.2	598.1	27.05	23.112	
5,800.0	5,760.9	5,761.2	5,639.7	15.4	22.5	53.53	948.4	-628.0	637.2	609.6	27.53	23.148	
5,900.0	5,860.2	5,860.5	5,736.7	15.6	22.9	53.48	966.1	-640.2	649.2	621.2	28.00	23.182	
6,000.0	5,959.5	5,969.0	5,842.7	15.9	23.3	53.45	985.1	-653.2	660.9	632.4	28.50	23.191	
6,100.0	6,058.8	6,094.2	5,965.9	16.2	23.7	53.58	1,003.6	-665.9	669.6	640.6	29.06	23.044	
6,200.0	6,158.1	6,220.0	6,090.5	16.4	24.1	53.94	1,017.7	-675.6	674.6	644.9	29.65	22.753	
6,300.0	6,257.6	6,346.0	6,216.0	16.7	24.3	54.32	1,027.2	-682.2	677.1	647.0	30.16	22.455	
6,400.0	6,357.4	6,472.1	6,341.9	16.8	24.5	54.60	1,032.2	-685.6	677.9	647.4	30.57	22.177	
6,500.0	6,457.4	6,588.6	6,458.4	17.0	24.6	54.74	1,033.0	-686.2	677.2	646.3	30.88	21.931	
6,600.0	6,557.4	6,691.1	6,560.9	17.1	24.7	114.59	1,032.6	-687.0	676.9	645.8	31.14	21.740	
6,700.0	6,657.4	6,791.3	6,661.0	17.2	24.8	114.58	1,031.9	-688.1	676.8	645.4	31.42	21.544	
6,800.0	6,757.4	6,891.3	6,761.0	17.3	24.8	114.58	1,031.3	-689.2	676.8	645.1	31.71	21.347	
6,900.0	6,857.4	6,991.3	6,861.0	17.5	24.9	114.58	1,030.6	-690.3	676.8	644.8	32.00	21.153	
7,000.0	6,957.4	7,091.3	6,961.0	17.6	25.0	114.58	1,030.0	-691.5	676.8	644.5	32.29	20.962	
7,100.0	7,057.3	7,191.3	7,061.0	17.7	25.1	114.58	1,029.3	-692.6	676.8	644.2	32.58	20.774	
7,200.0	7,157.3	7,291.3	7,161.0	17.8	25.2	114.58	1,028.7	-693.7	676.8	644.0	32.87	20.588	
7,300.0	7,257.3	7,391.3	7,261.0	18.0	25.3	114.58	1,028.0	-694.9	676.8	643.7	33.17	20.405	
7,400.0	7,357.3	7,491.3	7,361.0	18.1	25.4	114.58	1,027.4	-696.0	676.8	643.4	33.47	20.225	
7,500.0	7,457.3	7,591.3	7,461.0	18.2	25.5	114.58	1,026.7	-697.1	676.8	643.1	33.76	20.047	
7,600.0	7,557.3	7,691.3	7,561.0	18.4	25.6	114.58	1,026.1	-698.2	676.8	642.8	34.06	19.871	
7,700.0	7,657.3	7,791.3	7,661.0	18.5	25.7	114.58	1,025.4	-699.4	676.8	642.5	34.36	19.698	
7,800.0	7,757.3	7,891.3	7,761.0	18.6	25.7	114.58	1,024.8	-700.5	676.8	642.2	34.66	19.528	
7,900.0	7,857.3	7,991.3	7,860.9	18.8	25.8	114.58	1,024.1	-701.6	676.8	641.9	34.96	19.359	
8,000.0	7,957.3	8,091.3	7,960.9	18.9	25.9	114.58	1,023.5	-702.8	676.8	641.6	35.26	19.193	
8,100.0	8,057.3	8,191.3	8,060.9	19.1	26.0	114.58	1,022.8	-703.9	676.8	641.3	35.57	19.030	
8,200.0	8,157.3	8,291.3	8,160.9	19.2	26.1	114.58	1,022.2	-705.0	676.8	641.0	35.87	18.869	
8,300.0	8,257.2	8,391.3	8,260.9	19.3	26.2	114.58	1,021.5	-706.1	676.8	640.6	36.17	18.710	
8,400.0	8,357.2	8,491.3	8,360.9	19.5	26.3	114.58	1,020.9	-707.3	676.8	640.3	36.48	18.553	
8,500.0	8,457.2	8,591.3	8,460.9	19.6	26.4	114.58	1,020.2	-708.4	676.8	640.0	36.79	18.399	
8,600.0	8,557.2	8,691.3	8,560.9	19.7	26.5	114.58	1,019.6	-709.5	676.8	639.7	37.09	18.246	
8,700.0	8,657.2	8,791.3	8,660.9	19.9	26.6	114.58	1,018.9	-710.7	676.8	639.4	37.40	18.096	
8,800.0	8,757.2	8,891.3	8,760.9	20.0	26.7	114.58	1,018.3	-711.8	676.8	639.1	37.71	17.948	
8,900.0	8,857.2	8,991.3	8,860.9	20.2	26.8	114.58	1,017.6	-712.9	676.8	638.8	38.02	17.802	
9,000.0	8,957.2	9,091.3	8,960.9	20.3	26.9	114.58	1,017.0	-714.0	676.8	638.5	38.33	17.658	
9,100.0	9,057.2	9,191.3	9,060.8	20.5	27.0	114.58	1,016.3	-715.2	676.8	638.2	38.64	17.515	
9,200.0	9,157.2	9,291.3	9,160.8	20.6	27.2	114.58	1,015.7	-716.3	676.8	637.9	38.95	17.375	
9,300.0	9,257.2	9,391.3	9,260.8	20.7	27.3	114.58	1,015.0	-717.4	676.8	637.6	39.27	17.237	
9,400.0	9,357.2	9,491.3	9,360.8	20.9	27.4	114.58	1,014.4	-718.5	676.8	637.2	39.58	17.101	
9,500.0	9,457.1	9,591.3	9,460.8	21.0	27.5	114.58	1,013.7	-719.7	676.8	636.9	39.89	16.966	
9,600.0	9,557.1	9,691.3	9,560.8	21.2	27.6	114.58	1,013.1	-720.8	676.8	636.6	40.21	16.834	
9,605.0	9,562.1	9,696.3	9,565.8	21.2	27.6	114.58	1,013.0	-720.9	676.8	636.6	40.22	16.827	
9,669.9	9,627.0	9,697.5	9,567.0	21.3	27.6	114.58	1,013.0	-720.9	679.8	639.5	40.33	16.858	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-3D - DD - DD

Offset Site Error: 0.0 ft

Survey Program: 170-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	10.0	10.0	0.0	0.0	-134.56	-35.0	-35.5	49.8				
100.0	100.0	109.8	109.8	0.1	0.2	-134.36	-35.0	-35.8	50.1	49.8	0.31	162.386 ES	
200.0	200.0	209.1	209.1	0.3	0.3	-133.78	-35.2	-36.8	50.9	50.3	0.64	79.651	
300.0	300.0	306.7	306.6	0.5	0.5	-73.92	-36.9	-40.5	54.4	53.4	0.99	54.967	
400.0	399.8	405.1	404.7	0.7	0.7	-76.35	-40.1	-47.1	60.1	58.7	1.36	44.119	
500.0	499.5	502.0	501.1	0.9	1.0	-80.90	-45.8	-56.1	69.0	67.2	1.77	39.001	
600.0	598.8	599.0	597.1	1.2	1.2	-86.38	-54.1	-67.0	81.2	79.0	2.21	36.708	
700.0	698.0	694.2	690.8	1.4	1.6	-91.33	-66.0	-78.5	98.0	95.3	2.67	36.732	
800.0	797.3	790.9	785.9	1.7	1.9	-96.19	-80.4	-88.3	116.7	113.6	3.13	37.313	
900.0	896.6	889.4	882.7	2.0	2.2	-100.04	-95.9	-97.9	136.7	133.1	3.60	37.967	
1,000.0	995.9	989.3	981.1	2.2	2.5	-103.08	-110.5	-107.0	155.8	151.7	4.08	38.185	
1,100.0	1,095.1	1,087.2	1,077.6	2.5	2.9	-105.01	-123.7	-116.8	174.4	169.9	4.56	38.222	
1,200.0	1,194.4	1,187.7	1,176.7	2.8	3.2	-106.55	-136.9	-127.0	192.9	187.9	5.06	38.149	
1,300.0	1,293.7	1,286.0	1,273.8	3.0	3.5	-107.81	-149.0	-136.7	210.6	205.1	5.54	37.990	
1,400.0	1,392.9	1,385.8	1,372.4	3.3	3.9	-108.80	-161.0	-146.9	228.3	222.3	6.04	37.790	
1,500.0	1,492.2	1,489.3	1,474.8	3.6	4.2	-109.91	-172.3	-156.2	244.6	238.1	6.53	37.439	
1,600.0	1,591.5	1,590.9	1,575.7	3.9	4.4	-111.34	-182.3	-163.1	259.7	252.6	7.01	37.034	
1,700.0	1,690.8	1,694.0	1,678.2	4.1	4.7	-112.75	-190.6	-169.3	273.0	265.6	7.49	36.445	
1,800.0	1,790.0	1,794.5	1,778.3	4.4	4.9	-114.10	-198.2	-174.7	285.9	277.9	7.96	35.909	
1,900.0	1,889.3	1,891.3	1,874.7	4.7	5.1	-115.41	-205.7	-179.3	299.1	290.7	8.41	35.547	
2,000.0	1,988.6	1,993.3	1,976.3	4.9	5.4	-116.60	-213.3	-184.6	312.2	303.3	8.89	35.139	
2,100.0	2,087.9	2,092.6	2,075.2	5.2	5.6	-117.47	-219.7	-190.7	324.4	315.0	9.36	34.668	
2,200.0	2,187.1	2,187.4	2,169.4	5.5	5.8	-118.02	-226.9	-197.9	337.9	328.1	9.83	34.373	
2,300.0	2,286.4	2,291.2	2,272.5	5.8	6.1	-118.33	-234.5	-207.2	351.1	340.8	10.34	33.954	
2,400.0	2,385.7	2,376.5	2,357.0	6.0	6.4	-118.29	-241.5	-216.7	365.3	354.5	10.82	33.755	
2,500.0	2,484.9	2,471.8	2,451.0	6.3	6.7	-118.05	-252.1	-228.6	382.5	371.1	11.33	33.769	
2,600.0	2,584.2	2,562.9	2,540.8	6.6	7.0	-117.91	-263.0	-239.4	400.4	388.6	11.81	33.899	
2,700.0	2,683.5	2,659.4	2,635.7	6.9	7.4	-117.80	-276.0	-250.8	419.8	407.5	12.32	34.074	
2,800.0	2,782.8	2,761.0	2,735.7	7.1	7.7	-117.64	-289.3	-263.2	438.9	426.1	12.83	34.207	
2,900.0	2,882.0	2,855.2	2,828.5	7.4	8.1	-117.62	-301.5	-273.7	457.8	444.5	13.33	34.359	
3,000.0	2,981.3	2,945.7	2,917.4	7.7	8.4	-117.54	-314.4	-284.4	478.1	464.3	13.82	34.599	
3,100.0	3,080.6	3,044.0	3,013.8	8.0	8.8	-117.41	-329.4	-296.5	499.3	485.0	14.32	34.857	
3,200.0	3,179.9	3,141.3	3,109.2	8.2	9.2	-117.29	-344.0	-308.4	520.2	505.4	14.84	35.055	
3,300.0	3,279.1	3,238.1	3,204.0	8.5	9.5	-117.06	-358.6	-321.4	541.4	526.0	15.36	35.249	
3,400.0	3,378.4	3,332.1	3,296.1	8.8	9.9	-116.86	-373.2	-334.0	562.9	547.0	15.86	35.490	
3,500.0	3,477.7	3,428.8	3,390.7	9.1	10.3	-116.74	-388.6	-346.2	584.9	568.5	16.37	35.735	
3,600.0	3,576.9	3,525.0	3,484.9	9.3	10.7	-116.64	-404.1	-358.3	607.0	590.1	16.87	35.970	
3,700.0	3,676.2	3,624.1	3,581.9	9.6	11.1	-116.54	-420.1	-370.7	629.1	611.7	17.39	36.181	
3,800.0	3,775.5	3,732.5	3,688.2	9.9	11.5	-116.42	-436.6	-384.5	650.3	632.3	17.93	36.267	
3,900.0	3,874.8	3,836.4	3,790.3	10.1	11.8	-116.32	-450.7	-397.6	669.9	651.5	18.46	36.299	
4,000.0	3,974.0	3,928.2	3,880.5	10.4	12.2	-116.26	-463.6	-408.8	690.0	671.0	18.95	36.412	
4,100.0	4,073.3	4,027.1	3,977.6	10.7	12.5	-116.24	-477.8	-420.5	710.3	690.9	19.46	36.511	
4,200.0	4,172.6	4,126.7	4,075.5	11.0	12.9	-116.25	-491.9	-431.9	730.4	710.4	19.96	36.591	
4,300.0	4,271.9	4,223.3	4,170.6	11.2	13.3	-116.29	-505.6	-442.6	750.5	730.0	20.46	36.673	
4,400.0	4,371.1	4,324.0	4,269.5	11.5	13.6	-116.23	-519.9	-455.0	770.7	749.7	20.98	36.727	
4,500.0	4,470.4	4,432.1	4,375.9	11.8	14.0	-116.19	-534.2	-468.0	789.9	768.4	21.51	36.717	
4,600.0	4,569.7	4,526.1	4,468.5	12.1	14.3	-116.21	-546.0	-478.6	808.5	786.4	22.01	36.735	
4,700.0	4,668.9	4,618.7	4,559.6	12.3	14.7	-116.20	-558.6	-489.4	828.0	805.5	22.51	36.791	
4,800.0	4,768.2	4,724.2	4,663.3	12.6	15.0	-116.14	-572.9	-502.4	847.6	824.6	23.03	36.799	
4,900.0	4,867.5	4,834.0	4,771.6	12.9	15.4	-116.18	-586.4	-514.5	865.8	842.3	23.56	36.757	
5,000.0	4,966.8	4,925.4	4,861.9	13.2	15.7	-116.31	-597.3	-523.1	883.7	859.6	24.02	36.782	
5,100.0	5,066.0	5,020.7	4,956.1	13.4	16.0	-116.46	-609.5	-531.7	902.3	877.8	24.51	36.814	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-3D - DD - DD

Offset Site Error: 0.0 ft

Survey Program: 170-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	5,165.3	5,128.5	5,062.6	13.7	16.4	-116.58	-622.9	-542.1	920.6	895.5	25.03	36.779	
5,300.0	5,264.6	5,221.7	5,154.5	14.0	16.7	-116.62	-634.1	-552.0	938.5	913.0	25.52	36.769	
5,400.0	5,363.9	5,318.6	5,250.1	14.3	17.0	-116.65	-646.1	-562.6	956.8	930.8	26.02	36.772	
5,500.0	5,463.1	5,431.6	5,361.7	14.5	17.4	-116.72	-659.3	-574.3	974.4	947.9	26.55	36.700	
5,600.0	5,562.4	5,534.1	5,463.1	14.8	17.7	-116.83	-670.5	-583.9	991.2	964.1	27.05	36.646	
5,700.0	5,661.7	5,646.0	5,574.1	15.1	18.0	-116.98	-681.7	-593.8	1,007.1	979.5	27.57	36.534	
5,800.0	5,760.9	5,747.3	5,674.6	15.4	18.3	-117.14	-690.7	-602.2	1,021.8	993.8	28.06	36.421	
5,900.0	5,860.2	5,840.1	5,766.7	15.6	18.5	-117.31	-699.6	-609.6	1,037.3	1,008.8	28.52	36.367	
6,000.0	5,959.5	5,950.8	5,876.5	15.9	18.8	-117.53	-709.9	-617.9	1,052.4	1,023.4	29.03	36.257	
6,100.0	6,058.8	6,046.3	5,971.5	16.2	19.0	-117.74	-717.9	-624.5	1,066.7	1,037.2	29.48	36.180	
6,200.0	6,158.1	6,141.3	6,065.9	16.4	19.3	-118.11	-726.9	-629.1	1,081.8	1,051.9	29.94	36.137	
6,300.0	6,257.6	6,266.9	6,191.0	16.7	19.5	-118.64	-737.4	-634.1	1,094.9	1,064.4	30.43	35.984	
6,400.0	6,357.4	6,419.4	6,343.3	16.8	19.8	-118.94	-744.0	-638.9	1,102.0	1,071.1	30.88	35.687	
6,500.0	6,457.4	6,531.7	6,455.6	17.0	19.9	-119.02	-745.5	-640.6	1,104.5	1,073.3	31.19	35.413	
6,600.0	6,557.4	6,630.6	6,554.5	17.1	20.0	-59.10	-746.6	-641.6	1,105.5	1,074.0	31.46	35.140	
6,700.0	6,657.4	6,732.0	6,655.8	17.2	20.2	-59.09	-747.7	-642.7	1,106.1	1,074.3	31.74	34.845	
6,800.0	6,757.4	6,836.6	6,760.4	17.3	20.3	-59.09	-748.6	-643.9	1,106.2	1,074.2	32.04	34.531	
6,900.0	6,857.4	6,937.6	6,861.4	17.5	20.4	-59.08	-749.2	-645.2	1,106.1	1,073.8	32.32	34.222	
7,000.0	6,957.4	7,039.2	6,963.0	17.6	20.5	-59.08	-749.6	-646.4	1,105.9	1,073.3	32.61	33.913	
7,061.6	7,018.9	7,097.7	7,021.5	17.7	20.6	-59.08	-749.9	-647.1	1,105.9	1,073.1	32.79	33.728	
7,100.0	7,057.3	7,134.1	7,057.9	17.7	20.6	-59.07	-750.2	-647.7	1,105.9	1,073.0	32.90	33.616	
7,200.0	7,157.3	7,235.6	7,159.4	17.8	20.8	-59.03	-751.0	-649.6	1,106.0	1,072.8	33.20	33.318	
7,300.0	7,257.3	7,333.6	7,257.3	18.0	20.9	-58.98	-751.7	-651.6	1,106.2	1,072.7	33.49	33.030	
7,400.0	7,357.3	7,433.8	7,357.5	18.1	21.0	-58.92	-752.6	-653.9	1,106.4	1,072.6	33.79	32.742	
7,500.0	7,457.3	7,536.7	7,460.4	18.2	21.2	-58.85	-753.3	-656.4	1,106.4	1,072.3	34.10	32.450	
7,525.2	7,482.5	7,561.4	7,485.0	18.3	21.2	-58.84	-753.4	-657.0	1,106.4	1,072.3	34.17	32.379	
7,600.0	7,557.3	7,635.2	7,558.9	18.4	21.3	-58.80	-753.9	-658.6	1,106.5	1,072.1	34.40	32.170	
7,700.0	7,657.3	7,734.7	7,658.3	18.5	21.5	-58.74	-754.6	-660.7	1,106.5	1,071.8	34.70	31.892	
7,800.0	7,757.3	7,830.5	7,754.1	18.6	21.6	-58.69	-755.5	-662.8	1,106.9	1,071.9	34.99	31.632	
7,900.0	7,857.3	7,927.9	7,851.5	18.8	21.7	-58.64	-756.8	-665.0	1,107.5	1,072.2	35.29	31.380	
8,000.0	7,957.3	8,026.9	7,950.4	18.9	21.9	-58.57	-758.2	-667.5	1,108.3	1,072.7	35.60	31.133	
8,100.0	8,057.3	8,127.9	8,051.4	19.1	22.0	-58.48	-759.6	-670.3	1,109.1	1,073.2	35.91	30.887	
8,200.0	8,157.3	8,226.9	8,150.3	19.2	22.2	-58.41	-760.9	-672.8	1,109.9	1,073.7	36.22	30.646	
8,300.0	8,257.2	8,323.1	8,246.5	19.3	22.3	-58.35	-762.5	-675.1	1,110.9	1,074.4	36.52	30.421	
8,400.0	8,357.2	8,423.5	8,346.9	19.5	22.5	-58.28	-764.4	-677.7	1,112.2	1,075.3	36.83	30.198	
8,500.0	8,457.2	8,526.0	8,449.3	19.6	22.6	-58.20	-766.0	-680.4	1,113.2	1,076.0	37.14	29.969	
8,600.0	8,557.2	8,627.7	8,550.9	19.7	22.8	-58.12	-767.5	-683.1	1,114.0	1,076.6	37.46	29.739	
8,700.0	8,657.2	8,727.2	8,650.4	19.9	22.9	-58.04	-768.9	-685.9	1,114.8	1,077.0	37.77	29.513	
8,800.0	8,757.2	8,832.0	8,755.2	20.0	23.1	-57.95	-770.2	-688.8	1,115.5	1,077.4	38.09	29.282	
8,900.0	8,857.2	8,932.1	8,855.2	20.2	23.2	-57.86	-771.1	-691.6	1,115.8	1,077.4	38.41	29.051	
9,000.0	8,957.2	9,033.4	8,956.4	20.3	23.4	-57.78	-772.1	-694.4	1,116.1	1,077.4	38.73	28.821	
9,100.0	9,057.2	9,135.2	9,058.2	20.5	23.5	-57.68	-772.8	-697.5	1,116.3	1,077.3	39.05	28.589	
9,200.0	9,157.2	9,237.7	9,160.6	20.6	23.7	-57.58	-773.4	-700.7	1,116.3	1,076.9	39.37	28.354	
9,300.0	9,257.2	9,341.2	9,264.1	20.7	23.9	-57.47	-773.7	-703.8	1,116.0	1,076.4	39.69	28.116	
9,400.0	9,357.2	9,442.2	9,365.1	20.9	24.0	-57.37	-773.8	-706.9	1,115.5	1,075.5	40.02	27.878	
9,500.0	9,457.1	9,542.5	9,465.3	21.0	24.1	-57.27	-773.8	-710.0	1,115.0	1,074.7	40.34	27.643	
9,537.8	9,495.0	9,578.0	9,500.8	21.1	24.2	-57.23	-773.8	-711.2	1,114.8	1,074.3	40.45	27.557	
9,600.0	9,557.1	9,578.0	9,500.8	21.2	24.2	-57.23	-773.8	-711.2	1,116.3	1,075.8	40.55	27.530	SF
9,669.9	9,627.0	9,578.0	9,500.8	21.3	24.2	-57.23	-773.8	-711.2	1,122.2	1,081.5	40.66	27.601	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-5D - 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	-134.62	-21.1	-21.4	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	-134.62	-21.1	-21.4	30.1	29.8	0.30	101.416	
200.0	200.0	200.0	200.0	0.3	0.3	-134.62	-21.1	-21.4	30.1	29.4	0.65	46.597	
300.0	300.0	300.2	300.1	0.5	0.5	-81.15	-22.0	-19.9	29.4	28.4	1.00	29.295	
350.7	350.6	350.7	350.6	0.6	0.6	-89.81	-23.1	-18.0	29.0	27.8	1.20	24.207	CC, ES
400.0	399.8	399.6	399.4	0.7	0.7	-101.41	-24.6	-15.4	29.6	28.3	1.39	21.328	
500.0	499.5	497.6	497.0	0.9	0.9	-127.99	-28.9	-8.1	37.2	35.5	1.78	20.913	SF
600.0	598.8	593.6	592.3	1.2	1.2	-147.18	-34.8	1.9	55.1	53.0	2.12	26.002	
700.0	698.0	689.7	687.4	1.4	1.4	-157.43	-41.7	13.8	78.7	76.2	2.44	32.201	
800.0	797.3	786.1	782.9	1.7	1.7	-162.97	-48.8	25.9	103.6	100.8	2.77	37.403	
900.0	896.6	882.6	878.3	2.0	2.0	-166.34	-55.9	38.0	129.0	125.9	3.10	41.640	
1,000.0	995.9	979.1	973.8	2.2	2.3	-168.61	-62.9	50.1	154.8	151.4	3.43	45.111	
1,100.0	1,095.1	1,075.6	1,069.2	2.5	2.6	-170.23	-70.0	62.2	180.7	177.0	3.77	47.990	
1,200.0	1,194.4	1,172.0	1,164.7	2.8	2.9	-171.44	-77.0	74.3	206.7	202.6	4.10	50.411	
1,300.0	1,293.7	1,268.5	1,260.1	3.0	3.2	-172.38	-84.1	86.4	232.8	228.4	4.44	52.471	
1,400.0	1,392.9	1,365.0	1,355.6	3.3	3.5	-173.13	-91.2	98.5	259.0	254.2	4.77	54.244	
1,500.0	1,492.2	1,461.5	1,451.0	3.6	3.8	-173.74	-98.2	110.5	285.1	280.0	5.11	55.785	
1,600.0	1,591.5	1,557.9	1,546.5	3.9	4.1	-174.25	-105.3	122.6	311.3	305.9	5.45	57.136	
1,700.0	1,690.8	1,654.4	1,642.0	4.1	4.4	-174.69	-112.4	134.7	337.5	331.7	5.79	58.330	
1,800.0	1,790.0	1,750.9	1,737.4	4.4	4.7	-175.05	-119.4	146.8	363.8	357.6	6.12	59.392	
1,900.0	1,889.3	1,847.4	1,832.9	4.7	5.0	-175.37	-126.5	158.9	390.0	383.5	6.46	60.343	
2,000.0	1,988.6	1,943.8	1,928.3	4.9	5.3	-175.65	-133.5	171.0	416.2	409.4	6.80	61.200	
2,100.0	2,087.9	2,040.3	2,023.8	5.2	5.6	-175.90	-140.6	183.1	442.5	435.4	7.14	61.975	
2,200.0	2,187.1	2,136.8	2,119.2	5.5	5.9	-176.12	-147.7	195.2	468.8	461.3	7.48	62.681	
2,300.0	2,286.4	2,233.3	2,214.7	5.8	6.2	-176.31	-154.7	207.3	495.0	487.2	7.82	63.325	
2,400.0	2,385.7	2,329.7	2,310.1	6.0	6.4	-176.49	-161.8	219.3	521.3	513.1	8.16	63.915	
2,500.0	2,484.9	2,426.2	2,405.6	6.3	6.7	-176.65	-168.9	231.4	547.6	539.1	8.50	64.458	
2,600.0	2,584.2	2,522.7	2,501.0	6.6	7.0	-176.79	-175.9	243.5	573.9	565.0	8.83	64.960	
2,700.0	2,683.5	2,619.2	2,596.5	6.9	7.3	-176.92	-183.0	255.6	600.2	591.0	9.17	65.424	
2,800.0	2,782.8	2,715.6	2,691.9	7.1	7.6	-177.04	-190.0	267.7	626.4	616.9	9.51	65.856	
2,900.0	2,882.0	2,812.1	2,787.4	7.4	7.9	-177.16	-197.1	279.8	652.7	642.9	9.85	66.257	
3,000.0	2,981.3	2,908.6	2,882.9	7.7	8.2	-177.26	-204.2	291.9	679.0	668.8	10.19	66.632	
3,100.0	3,080.6	3,005.1	2,978.3	8.0	8.5	-177.35	-211.2	304.0	705.3	694.8	10.53	66.982	
3,200.0	3,179.9	3,101.5	3,073.8	8.2	8.8	-177.44	-218.3	316.0	731.6	720.7	10.87	67.311	
3,300.0	3,279.1	3,198.0	3,169.2	8.5	9.1	-177.52	-225.4	328.1	757.9	746.7	11.21	67.620	
3,400.0	3,378.4	3,294.5	3,264.7	8.8	9.4	-177.60	-232.4	340.2	784.2	772.7	11.55	67.910	
3,500.0	3,477.7	3,391.0	3,360.1	9.1	9.7	-177.67	-239.5	352.3	810.5	798.6	11.89	68.184	
3,600.0	3,576.9	3,487.4	3,455.6	9.3	10.0	-177.74	-246.5	364.4	836.8	824.6	12.23	68.443	
3,700.0	3,676.2	3,583.9	3,551.0	9.6	10.3	-177.80	-253.6	376.5	863.1	850.5	12.57	68.687	
3,800.0	3,775.5	3,680.4	3,646.5	9.9	10.6	-177.86	-260.7	388.6	889.4	876.5	12.91	68.919	
3,900.0	3,874.8	3,776.9	3,741.9	10.1	10.9	-177.91	-267.7	400.7	915.7	902.5	13.24	69.139	
4,000.0	3,974.0	3,873.3	3,837.4	10.4	11.2	-177.97	-274.8	412.8	942.0	928.4	13.58	69.348	
4,100.0	4,073.3	3,969.8	3,932.8	10.7	11.5	-178.02	-281.9	424.8	968.3	954.4	13.92	69.547	
4,200.0	4,172.6	4,066.3	4,028.3	11.0	11.8	-178.06	-288.9	436.9	994.6	980.4	14.26	69.736	
4,300.0	4,271.9	4,162.8	4,123.8	11.2	12.1	-178.11	-296.0	449.0	1,020.9	1,006.3	14.60	69.916	
4,400.0	4,371.1	4,259.2	4,219.2	11.5	12.4	-178.15	-303.0	461.1	1,047.2	1,032.3	14.94	70.088	
4,500.0	4,470.4	4,355.7	4,314.7	11.8	12.7	-178.19	-310.1	473.2	1,073.6	1,058.3	15.28	70.253	
4,600.0	4,569.7	4,452.2	4,410.1	12.1	13.0	-178.23	-317.2	485.3	1,099.9	1,084.2	15.62	70.410	
4,700.0	4,668.9	4,548.7	4,505.6	12.3	13.3	-178.27	-324.2	497.4	1,126.2	1,110.2	15.96	70.561	
4,800.0	4,768.2	4,645.1	4,601.0	12.6	13.6	-178.30	-331.3	509.5	1,152.5	1,136.2	16.30	70.705	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-6D - 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	-134.58	-28.0	-28.5	40.0				
100.0	100.0	100.0	100.0	0.1	0.1	-134.58	-28.0	-28.5	40.0	39.7	0.30	134.681	
200.0	200.0	200.0	200.0	0.3	0.3	-134.58	-28.0	-28.5	40.0	39.3	0.65	61.881	CC, ES
300.0	300.0	298.6	298.6	0.5	0.5	-76.33	-29.0	-29.9	41.2	40.2	1.00	41.366	
400.0	399.8	397.0	396.9	0.7	0.7	-81.18	-31.8	-34.1	45.2	43.8	1.36	33.092	
500.0	499.5	495.1	494.6	0.9	0.9	-87.51	-36.4	-41.1	52.4	50.6	1.77	29.533	
600.0	598.8	593.6	592.5	1.2	1.2	-93.78	-42.7	-50.5	62.7	60.5	2.22	28.226	
700.0	698.0	692.8	691.0	1.4	1.4	-98.48	-49.1	-60.2	73.8	71.2	2.69	27.477	
800.0	797.3	792.1	789.5	1.7	1.7	-101.93	-55.5	-69.9	85.4	82.2	3.16	26.980	
900.0	896.6	891.3	888.1	2.0	1.9	-104.56	-61.9	-79.5	97.1	93.5	3.65	26.635	
1,000.0	995.9	990.5	986.6	2.2	2.2	-106.61	-68.4	-89.2	109.1	104.9	4.13	26.385	
1,100.0	1,095.1	1,089.7	1,085.1	2.5	2.5	-108.26	-74.8	-98.9	121.1	116.5	4.62	26.199	
1,200.0	1,194.4	1,188.9	1,183.7	2.8	2.7	-109.61	-81.2	-108.6	133.2	128.1	5.11	26.057	
1,300.0	1,293.7	1,288.2	1,282.2	3.0	3.0	-110.74	-87.6	-118.3	145.4	139.8	5.60	25.946	
1,400.0	1,392.9	1,387.4	1,380.7	3.3	3.2	-111.69	-94.1	-128.0	157.6	151.5	6.10	25.857	
1,500.0	1,492.2	1,486.6	1,479.3	3.6	3.5	-112.50	-100.5	-137.6	169.9	163.3	6.59	25.786	
1,600.0	1,591.5	1,585.8	1,577.8	3.9	3.8	-113.21	-106.9	-147.3	182.2	175.1	7.08	25.726	
1,700.0	1,690.8	1,685.0	1,676.4	4.1	4.0	-113.82	-113.3	-157.0	194.5	186.9	7.57	25.677	
1,800.0	1,790.0	1,784.3	1,774.9	4.4	4.3	-114.36	-119.8	-166.7	206.8	198.8	8.07	25.636	
1,900.0	1,889.3	1,883.5	1,873.4	4.7	4.6	-114.85	-126.2	-176.4	219.2	210.6	8.56	25.600	
2,000.0	1,988.6	1,982.7	1,972.0	4.9	4.8	-115.27	-132.6	-186.1	231.5	222.5	9.05	25.570	
2,100.0	2,087.9	2,081.9	2,070.5	5.2	5.1	-115.66	-139.1	-195.7	243.9	234.4	9.55	25.544	
2,200.0	2,187.1	2,181.1	2,169.0	5.5	5.4	-116.01	-145.5	-205.4	256.3	246.2	10.04	25.521	
2,300.0	2,286.4	2,280.3	2,267.6	5.8	5.6	-116.33	-151.9	-215.1	268.7	258.1	10.54	25.500	
2,400.0	2,385.7	2,379.6	2,366.1	6.0	5.9	-116.61	-158.3	-224.8	281.1	270.1	11.03	25.483	
2,500.0	2,484.9	2,478.8	2,464.6	6.3	6.2	-116.88	-164.8	-234.5	293.5	282.0	11.52	25.467	
2,600.0	2,584.2	2,578.0	2,563.2	6.6	6.4	-117.12	-171.2	-244.1	305.9	293.9	12.02	25.453	
2,700.0	2,683.5	2,677.2	2,661.7	6.9	6.7	-117.35	-177.6	-253.8	318.3	305.8	12.51	25.440	
2,800.0	2,782.8	2,776.4	2,760.2	7.1	7.0	-117.55	-184.0	-263.5	330.7	317.7	13.01	25.428	
2,900.0	2,882.0	2,875.7	2,858.8	7.4	7.2	-117.75	-190.5	-273.2	343.2	329.7	13.50	25.418	
3,000.0	2,981.3	2,974.9	2,957.3	7.7	7.5	-117.92	-196.9	-282.9	355.6	341.6	14.00	25.409	
3,100.0	3,080.6	3,074.1	3,055.9	8.0	7.8	-118.09	-203.3	-292.6	368.0	353.5	14.49	25.400	
3,200.0	3,179.9	3,173.3	3,154.4	8.2	8.0	-118.25	-209.7	-302.2	380.5	365.5	14.98	25.392	
3,300.0	3,279.1	3,272.5	3,252.9	8.5	8.3	-118.39	-216.2	-311.9	392.9	377.4	15.48	25.385	
3,400.0	3,378.4	3,371.8	3,351.5	8.8	8.6	-118.53	-222.6	-321.6	405.3	389.4	15.97	25.378	
3,500.0	3,477.7	3,471.0	3,450.0	9.1	8.8	-118.66	-229.0	-331.3	417.8	401.3	16.47	25.372	
3,600.0	3,576.9	3,570.2	3,548.5	9.3	9.1	-118.78	-235.4	-341.0	430.2	413.3	16.96	25.367	
3,700.0	3,676.2	3,669.4	3,647.1	9.6	9.4	-118.89	-241.9	-350.7	442.7	425.2	17.45	25.361	
3,800.0	3,775.5	3,768.6	3,745.6	9.9	9.6	-119.00	-248.3	-360.3	455.1	437.2	17.95	25.357	
3,900.0	3,874.8	3,867.8	3,844.1	10.1	9.9	-119.10	-254.7	-370.0	467.6	449.1	18.44	25.352	
4,000.0	3,974.0	3,967.1	3,942.7	10.4	10.2	-119.20	-261.1	-379.7	480.0	461.1	18.94	25.348	
4,100.0	4,073.3	4,066.3	4,041.2	10.7	10.4	-119.29	-267.6	-389.4	492.5	473.0	19.43	25.344	
4,200.0	4,172.6	4,165.5	4,139.7	11.0	10.7	-119.38	-274.0	-399.1	504.9	485.0	19.93	25.340	
4,300.0	4,271.9	4,264.7	4,238.3	11.2	11.0	-119.46	-280.4	-408.8	517.4	497.0	20.42	25.337	
4,400.0	4,371.1	4,363.9	4,336.8	11.5	11.2	-119.54	-286.9	-418.4	529.8	508.9	20.91	25.333	
4,500.0	4,470.4	4,463.2	4,435.4	11.8	11.5	-119.62	-293.3	-428.1	542.3	520.9	21.41	25.330	
4,600.0	4,569.7	4,562.4	4,533.9	12.1	11.8	-119.69	-299.7	-437.8	554.8	532.8	21.90	25.327	
4,700.0	4,668.9	4,661.6	4,632.4	12.3	12.1	-119.76	-306.1	-447.5	567.2	544.8	22.40	25.325	
4,800.0	4,768.2	4,760.8	4,731.0	12.6	12.3	-119.83	-312.6	-457.2	579.7	556.8	22.89	25.322	
4,900.0	4,867.5	4,860.0	4,829.5	12.9	12.6	-119.89	-319.0	-466.9	592.1	568.7	23.39	25.320	
5,000.0	4,966.8	4,959.3	4,928.0	13.2	12.9	-119.95	-325.4	-476.5	604.6	580.7	23.88	25.317	
5,100.0	5,066.0	5,058.5	5,026.6	13.4	13.1	-120.01	-331.8	-486.2	617.1	592.7	24.37	25.315	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-6D - 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
5,200.0	5,165.3	5,157.7	5,125.1	13.7	13.4	-120.07	-338.3	-495.9	629.5	604.6	24.87	25.313	
5,300.0	5,264.6	5,256.9	5,223.6	14.0	13.7	-120.12	-344.7	-505.6	642.0	616.6	25.36	25.311	
5,400.0	5,363.9	5,356.1	5,322.2	14.3	13.9	-120.17	-351.1	-515.3	654.4	628.6	25.86	25.309	
5,500.0	5,463.1	5,455.3	5,420.7	14.5	14.2	-120.22	-357.5	-525.0	666.9	640.5	26.35	25.307	
5,600.0	5,562.4	5,554.6	5,519.2	14.8	14.5	-120.27	-364.0	-534.6	679.4	652.5	26.85	25.306	
5,700.0	5,661.7	5,653.8	5,617.8	15.1	14.7	-120.32	-370.4	-544.3	691.8	664.5	27.34	25.304	
5,800.0	5,760.9	5,753.0	5,716.3	15.4	15.0	-120.36	-376.8	-554.0	704.3	676.5	27.83	25.302	
5,900.0	5,860.2	5,852.2	5,814.9	15.6	15.3	-120.41	-383.2	-563.7	716.8	688.4	28.33	25.301	
6,000.0	5,959.5	5,951.4	5,913.4	15.9	15.5	-120.45	-389.7	-573.4	729.2	700.4	28.82	25.299	
6,100.0	6,058.8	6,050.7	6,011.9	16.2	15.8	-120.49	-396.1	-583.1	741.7	712.4	29.32	25.298	
6,200.0	6,158.1	6,163.8	6,124.5	16.4	16.1	-120.68	-402.5	-592.7	753.3	723.5	29.82	25.265	
6,300.0	6,257.6	6,279.9	6,240.3	16.7	16.3	-121.07	-406.5	-598.8	761.5	731.3	30.24	25.179	
6,400.0	6,357.4	6,396.3	6,356.7	16.8	16.4	-121.42	-407.9	-600.9	765.8	735.2	30.58	25.041	
6,500.0	6,457.4	6,494.0	6,454.4	17.0	16.5	-121.57	-408.1	-601.2	767.2	736.4	30.85	24.867	
6,600.0	6,557.4	6,592.2	6,552.6	17.1	16.7	-61.63	-408.7	-602.2	767.7	736.5	31.13	24.663	
6,700.0	6,657.4	6,692.2	6,652.6	17.2	16.8	-61.62	-409.4	-603.3	767.8	736.4	31.41	24.442	
6,800.0	6,757.4	6,792.2	6,752.6	17.3	16.9	-61.62	-410.0	-604.5	767.8	736.1	31.70	24.221	
6,900.0	6,857.4	6,892.2	6,852.6	17.5	17.1	-61.62	-410.7	-605.6	767.8	735.8	31.99	24.003	
7,000.0	6,957.4	6,992.2	6,952.6	17.6	17.2	-61.62	-411.3	-606.7	767.8	735.5	32.28	23.788	
7,100.0	7,057.3	7,092.2	7,052.6	17.7	17.4	-61.62	-412.0	-607.8	767.8	735.2	32.57	23.576	
7,200.0	7,157.3	7,192.2	7,152.6	17.8	17.5	-61.62	-412.6	-609.0	767.8	734.9	32.86	23.367	
7,300.0	7,257.3	7,292.2	7,252.6	18.0	17.6	-61.62	-413.3	-610.1	767.8	734.6	33.15	23.161	
7,400.0	7,357.3	7,392.2	7,352.6	18.1	17.8	-61.62	-413.9	-611.2	767.8	734.3	33.44	22.957	
7,500.0	7,457.3	7,492.2	7,452.6	18.2	17.9	-61.62	-414.6	-612.3	767.8	734.0	33.74	22.757	
7,600.0	7,557.3	7,592.2	7,552.6	18.4	18.1	-61.62	-415.2	-613.5	767.8	733.7	34.03	22.559	
7,700.0	7,657.3	7,692.2	7,652.5	18.5	18.2	-61.62	-415.9	-614.6	767.8	733.4	34.33	22.364	
7,800.0	7,757.3	7,792.2	7,752.5	18.6	18.4	-61.62	-416.5	-615.7	767.8	733.1	34.63	22.171	
7,900.0	7,857.3	7,892.2	7,852.5	18.8	18.5	-61.62	-417.2	-616.8	767.8	732.8	34.93	21.981	
8,000.0	7,957.3	7,992.2	7,952.5	18.9	18.6	-61.62	-417.8	-618.0	767.8	732.5	35.23	21.794	
8,100.0	8,057.3	8,092.2	8,052.5	19.1	18.8	-61.62	-418.5	-619.1	767.8	732.2	35.53	21.610	
8,200.0	8,157.3	8,192.2	8,152.5	19.2	18.9	-61.62	-419.1	-620.2	767.8	731.9	35.83	21.428	
8,300.0	8,257.2	8,292.2	8,252.5	19.3	19.1	-61.62	-419.8	-621.3	767.8	731.6	36.13	21.248	
8,400.0	8,357.2	8,392.2	8,352.5	19.5	19.2	-61.62	-420.4	-622.5	767.8	731.3	36.44	21.071	
8,500.0	8,457.2	8,492.2	8,452.5	19.6	19.4	-61.62	-421.1	-623.6	767.8	731.0	36.74	20.897	
8,600.0	8,557.2	8,592.2	8,552.5	19.7	19.5	-61.62	-421.7	-624.7	767.8	730.7	37.05	20.724	
8,700.0	8,657.2	8,692.2	8,652.5	19.9	19.7	-61.62	-422.4	-625.8	767.8	730.4	37.35	20.555	
8,800.0	8,757.2	8,792.2	8,752.5	20.0	19.8	-61.62	-423.0	-627.0	767.8	730.1	37.66	20.387	
8,900.0	8,857.2	8,892.2	8,852.4	20.2	20.0	-61.62	-423.7	-628.1	767.8	729.8	37.97	20.222	
9,000.0	8,957.2	8,992.2	8,952.4	20.3	20.1	-61.62	-424.3	-629.2	767.8	729.5	38.28	20.059	
9,100.0	9,057.2	9,092.2	9,052.4	20.5	20.3	-61.62	-425.0	-630.4	767.8	729.2	38.59	19.898	
9,200.0	9,157.2	9,192.2	9,152.4	20.6	20.4	-61.62	-425.6	-631.5	767.8	728.9	38.89	19.740	
9,300.0	9,257.2	9,292.2	9,252.4	20.7	20.6	-61.62	-426.3	-632.6	767.8	728.6	39.21	19.583	
9,400.0	9,357.2	9,392.2	9,352.4	20.9	20.7	-61.62	-426.9	-633.7	767.8	728.3	39.52	19.429	
9,500.0	9,457.1	9,492.2	9,452.4	21.0	20.9	-61.62	-427.6	-634.9	767.8	727.9	39.83	19.277	
9,538.5	9,495.7	9,530.8	9,490.9	21.1	20.9	-61.62	-427.8	-635.3	767.8	727.8	39.95	19.219	
9,600.0	9,557.1	9,551.9	9,512.0	21.2	21.0	-61.62	-428.0	-635.5	768.8	728.8	40.08	19.184	SF
9,669.9	9,627.0	9,551.9	9,512.0	21.3	21.0	-61.62	-428.0	-635.5	775.7	735.5	40.19	19.301	

Anticollision Report

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-8D - 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	45.41	21.1	21.4	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	45.41	21.1	21.4	30.1	29.8	0.30	101.375	
200.0	200.0	200.0	200.0	0.3	0.3	45.41	21.1	21.4	30.1	29.4	0.65	46.578	CC, ES
300.0	300.0	298.9	298.9	0.5	0.5	107.67	22.6	22.3	32.2	31.2	1.00	32.356	
400.0	399.8	397.5	397.3	0.7	0.7	112.73	26.9	25.0	39.0	37.6	1.36	28.585	SF
500.0	499.5	495.3	494.8	0.9	0.9	118.06	34.1	29.4	50.6	48.8	1.76	28.778	
600.0	598.8	592.2	590.9	1.2	1.2	122.10	43.9	35.5	66.9	64.8	2.18	30.720	
700.0	698.0	688.0	685.7	1.4	1.5	123.61	56.4	43.2	86.5	83.9	2.62	32.993	
800.0	797.3	783.4	779.4	1.7	1.8	123.64	71.5	52.4	108.8	105.7	3.08	35.323	
900.0	896.6	880.7	874.9	2.0	2.2	123.42	87.6	62.4	131.9	128.3	3.55	37.158	
1,000.0	995.9	978.0	970.3	2.2	2.5	123.27	103.8	72.3	155.0	150.9	4.02	38.528	
1,100.0	1,095.1	1,075.3	1,065.7	2.5	2.9	123.16	120.0	82.3	178.1	173.6	4.50	39.583	
1,200.0	1,194.4	1,172.6	1,161.1	2.8	3.2	123.07	136.2	92.2	201.2	196.2	4.98	40.418	
1,300.0	1,293.7	1,269.9	1,256.6	3.0	3.6	123.00	152.3	102.2	224.3	218.8	5.46	41.096	
1,400.0	1,392.9	1,367.2	1,352.0	3.3	4.0	122.95	168.5	112.1	247.4	241.4	5.94	41.655	
1,500.0	1,492.2	1,464.5	1,447.4	3.6	4.3	122.90	184.7	122.1	270.5	264.0	6.42	42.124	
1,600.0	1,591.5	1,561.8	1,542.8	3.9	4.7	122.86	200.8	132.0	293.6	286.7	6.90	42.524	
1,700.0	1,690.8	1,659.1	1,638.3	4.1	5.1	122.83	217.0	142.0	316.7	309.3	7.39	42.868	
1,800.0	1,790.0	1,756.4	1,733.7	4.4	5.5	122.80	233.2	151.9	339.8	331.9	7.87	43.167	
1,900.0	1,889.3	1,853.7	1,829.1	4.7	5.8	122.77	249.3	161.9	362.9	354.5	8.36	43.429	
2,000.0	1,988.6	1,951.0	1,924.5	4.9	6.2	122.75	265.5	171.8	386.0	377.1	8.84	43.661	
2,100.0	2,087.9	2,048.3	2,020.0	5.2	6.6	122.73	281.7	181.8	409.1	399.7	9.32	43.868	
2,200.0	2,187.1	2,145.6	2,115.4	5.5	6.9	122.71	297.8	191.7	432.2	422.3	9.81	44.053	
2,300.0	2,286.4	2,242.9	2,210.8	5.8	7.3	122.70	314.0	201.7	455.3	445.0	10.30	44.220	
2,400.0	2,385.7	2,340.2	2,306.2	6.0	7.7	122.68	330.2	211.6	478.4	467.6	10.78	44.371	
2,500.0	2,484.9	2,437.5	2,401.7	6.3	8.1	122.67	346.3	221.6	501.5	490.2	11.27	44.509	
2,600.0	2,584.2	2,534.8	2,497.1	6.6	8.4	122.66	362.5	231.6	524.6	512.8	11.75	44.634	
2,700.0	2,683.5	2,632.0	2,592.5	6.9	8.8	122.65	378.7	241.5	547.7	535.4	12.24	44.750	
2,800.0	2,782.8	2,729.3	2,687.9	7.1	9.2	122.64	394.8	251.5	570.8	558.0	12.72	44.856	
2,900.0	2,882.0	2,826.6	2,783.3	7.4	9.6	122.63	411.0	261.4	593.9	580.7	13.21	44.954	
3,000.0	2,981.3	2,923.9	2,878.8	7.7	9.9	122.62	427.2	271.4	617.0	603.3	13.70	45.044	
3,100.0	3,080.6	3,021.2	2,974.2	8.0	10.3	122.61	443.4	281.3	640.1	625.9	14.18	45.129	
3,200.0	3,179.9	3,118.5	3,069.6	8.2	10.7	122.60	459.5	291.3	663.2	648.5	14.67	45.207	
3,300.0	3,279.1	3,215.8	3,165.0	8.5	11.0	122.60	475.7	301.2	686.3	671.1	15.16	45.280	
3,400.0	3,378.4	3,313.1	3,260.5	8.8	11.4	122.59	491.9	311.2	709.4	693.7	15.64	45.349	
3,500.0	3,477.7	3,410.4	3,355.9	9.1	11.8	122.58	508.0	321.1	732.5	716.3	16.13	45.413	
3,600.0	3,576.9	3,507.7	3,451.3	9.3	12.2	122.58	524.2	331.1	755.6	739.0	16.62	45.474	
3,700.0	3,676.2	3,605.0	3,546.7	9.6	12.5	122.57	540.4	341.0	778.7	761.6	17.10	45.531	
3,800.0	3,775.5	3,702.3	3,642.2	9.9	12.9	122.57	556.5	351.0	801.8	784.2	17.59	45.584	
3,900.0	3,874.8	3,799.6	3,737.6	10.1	13.3	122.56	572.7	360.9	824.9	806.8	18.08	45.635	
4,000.0	3,974.0	3,896.9	3,833.0	10.4	13.7	122.56	588.9	370.9	848.0	829.4	18.56	45.683	
4,100.0	4,073.3	3,994.2	3,928.4	10.7	14.0	122.55	605.0	380.8	871.1	852.0	19.05	45.728	
4,200.0	4,172.6	4,091.5	4,023.9	11.0	14.4	122.55	621.2	390.8	894.2	874.7	19.54	45.771	
4,300.0	4,271.9	4,188.8	4,119.3	11.2	14.8	122.55	637.4	400.7	917.3	897.3	20.02	45.812	
4,400.0	4,371.1	4,286.1	4,214.7	11.5	15.2	122.54	653.5	410.7	940.4	919.9	20.51	45.851	
4,500.0	4,470.4	4,383.4	4,310.1	11.8	15.5	122.54	669.7	420.6	963.5	942.5	21.00	45.888	
4,600.0	4,569.7	4,480.7	4,405.6	12.1	15.9	122.54	685.9	430.6	986.6	965.1	21.48	45.924	
4,700.0	4,668.9	4,577.9	4,501.0	12.3	16.3	122.53	702.1	440.5	1,009.7	987.7	21.97	45.957	
4,800.0	4,768.2	4,675.2	4,596.4	12.6	16.6	122.53	718.2	450.5	1,032.8	1,010.3	22.46	45.990	
4,900.0	4,867.5	4,772.5	4,691.8	12.9	17.0	122.53	734.4	460.5	1,055.9	1,033.0	22.94	46.021	
5,000.0	4,966.8	4,869.8	4,787.3	13.2	17.4	122.52	750.6	470.4	1,079.0	1,055.6	23.43	46.050	
5,100.0	5,066.0	4,967.1	4,882.7	13.4	17.8	122.52	766.7	480.4	1,102.1	1,078.2	23.92	46.078	

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 #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design Chevron C-D29-596 - Chevron #29-8D - 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
5,200.0	5,165.3	5,064.4	4,978.1	13.7	18.1	122.52	782.9	490.3	1,125.2	1,100.8	24.40	46.105	
5,300.0	5,264.6	5,161.7	5,073.5	14.0	18.5	122.52	799.1	500.3	1,148.3	1,123.4	24.89	46.132	

Company:	Berry Petroleum Company (NAD 83)	**Local Co-ordinate Reference:**	Well Chevron #29-14D
Project:	Garfield County	**TVD Reference:**	Well @ 7896.0ft
Reference Site:	Chevron C-D29-596	**MD Reference:**	Well @ 7896.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Chevron #29-14D	**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 #3	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to Well @ 7896.0ft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Chevron #29-14D
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.70°