



HOBBS OCD
APR 23 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#701Y

OH

Plan: Plan #1

Standard Planning Report

23 April, 2019



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Bandit 29 State Com
Well: #701Y
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #701Y
TVD Reference: KB = 25' @ 3553.0usft
MD Reference: KB = 25' @ 3553.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 83 NME)
Map System:	US State Plane 1983
Geo Datum:	North American Datum 1983
Map Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level

Site		Bandit 29 State Com			
Site Position:		Northing:	435,375.00 usft	Latitude:	32° 11' 41.017 N
From:	Map	Easting:	771,884.00 usft	Longitude:	103° 35' 16.930 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	#701Y					
Well Position	+N/-S	-16.0 usft	Northing:	435,359.00 usft	Latitude:	32° 11' 40.833 N
	+E/-W	368.0 usft	Easting:	772,252.00 usft	Longitude:	103° 35' 12.648 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,528.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/22/2019	6.76	60.01	47,728.54286918

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.59

Plan Survey Tool Program			Date	4/23/2019	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	20,026.6	Plan #1 (OH)	MWD	
				OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,482.9	3.66	359.85	1,482.8	5.8	0.0	2.00	2.00	0.00	359.85	
7,444.5	3.66	359.85	7,432.2	386.2	-1.0	0.00	0.00	0.00	0.00	
7,627.4	0.00	0.00	7,615.0	392.0	-1.0	2.00	-2.00	0.00	180.00	
11,984.9	0.00	0.00	11,972.5	392.0	-1.0	0.00	0.00	0.00	0.00	
12,734.6	89.96	179.60	12,450.0	-85.1	2.3	12.00	12.00	23.96	179.60	
20,026.6	89.96	179.60	12,455.0	-7,377.0	53.0	0.00	0.00	0.00	0.00	PBHL(Bandit 29 St Cr



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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,187.0	0.00	0.00	1,187.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,260.0	0.00	0.00	1,260.0	0.0	0.0	0.0	0.00	0.00	0.00
Tamarisk Anhydrite									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	2.00	359.85	1,400.0	1.7	0.0	-1.7	2.00	2.00	0.00
1,482.9	3.66	359.85	1,482.8	5.8	0.0	-5.8	2.00	2.00	0.00
1,500.0	3.66	359.85	1,499.8	6.9	0.0	-6.9	0.00	0.00	0.00
1,529.2	3.66	359.85	1,529.0	8.8	0.0	-8.8	0.00	0.00	0.00
Top of Salt									
1,600.0	3.66	359.85	1,599.6	13.3	0.0	-13.3	0.00	0.00	0.00
1,700.0	3.66	359.85	1,699.4	19.7	-0.1	-19.7	0.00	0.00	0.00
1,800.0	3.66	359.85	1,799.2	26.1	-0.1	-26.1	0.00	0.00	0.00
1,900.0	3.66	359.85	1,899.0	32.4	-0.1	-32.4	0.00	0.00	0.00
2,000.0	3.66	359.85	1,998.8	38.8	-0.1	-38.8	0.00	0.00	0.00
2,100.0	3.66	359.85	2,098.6	45.2	-0.1	-45.2	0.00	0.00	0.00
2,200.0	3.66	359.85	2,198.4	51.6	-0.1	-51.6	0.00	0.00	0.00
2,300.0	3.66	359.85	2,298.2	58.0	-0.1	-58.0	0.00	0.00	0.00
2,400.0	3.66	359.85	2,398.0	64.3	-0.2	-64.3	0.00	0.00	0.00
2,500.0	3.66	359.85	2,497.8	70.7	-0.2	-70.7	0.00	0.00	0.00
2,600.0	3.66	359.85	2,597.6	77.1	-0.2	-77.1	0.00	0.00	0.00
2,700.0	3.66	359.85	2,697.4	83.5	-0.2	-83.5	0.00	0.00	0.00
2,800.0	3.66	359.85	2,797.2	89.9	-0.2	-89.9	0.00	0.00	0.00
2,900.0	3.66	359.85	2,897.0	96.2	-0.2	-96.2	0.00	0.00	0.00
3,000.0	3.66	359.85	2,996.8	102.6	-0.3	-102.6	0.00	0.00	0.00
3,100.0	3.66	359.85	3,096.6	109.0	-0.3	-109.0	0.00	0.00	0.00
3,200.0	3.66	359.85	3,196.4	115.4	-0.3	-115.4	0.00	0.00	0.00
3,300.0	3.66	359.85	3,296.2	121.8	-0.3	-121.8	0.00	0.00	0.00
3,400.0	3.66	359.85	3,396.0	128.1	-0.3	-128.1	0.00	0.00	0.00
3,500.0	3.66	359.85	3,495.8	134.5	-0.3	-134.5	0.00	0.00	0.00
3,600.0	3.66	359.85	3,595.6	140.9	-0.4	-140.9	0.00	0.00	0.00
3,700.0	3.66	359.85	3,695.4	147.3	-0.4	-147.3	0.00	0.00	0.00
3,800.0	3.66	359.85	3,795.2	153.7	-0.4	-153.7	0.00	0.00	0.00
3,900.0	3.66	359.85	3,895.0	160.0	-0.4	-160.0	0.00	0.00	0.00
4,000.0	3.66	359.85	3,994.7	166.4	-0.4	-166.4	0.00	0.00	0.00
4,100.0	3.66	359.85	4,094.5	172.8	-0.4	-172.8	0.00	0.00	0.00
4,200.0	3.66	359.85	4,194.3	179.2	-0.5	-179.2	0.00	0.00	0.00
4,300.0	3.66	359.85	4,294.1	185.6	-0.5	-185.6	0.00	0.00	0.00
4,400.0	3.66	359.85	4,393.9	191.9	-0.5	-191.9	0.00	0.00	0.00
4,500.0	3.66	359.85	4,493.7	198.3	-0.5	-198.3	0.00	0.00	0.00



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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.0	3.66	359.85	4,593.5	204.7	-0.5	-204.7	0.00	0.00	0.00
4,700.0	3.66	359.85	4,693.3	211.1	-0.5	-211.1	0.00	0.00	0.00
4,800.0	3.66	359.85	4,793.1	217.5	-0.6	-217.5	0.00	0.00	0.00
4,900.0	3.66	359.85	4,892.9	223.8	-0.6	-223.8	0.00	0.00	0.00
5,000.0	3.66	359.85	4,992.7	230.2	-0.6	-230.2	0.00	0.00	0.00
5,021.3	3.66	359.85	5,014.0	231.6	-0.6	-231.6	0.00	0.00	0.00
Bottom of Salt									
5,093.5	3.66	359.85	5,086.0	236.2	-0.6	-236.2	0.00	0.00	0.00
Lamar									
5,100.0	3.66	359.85	5,092.5	236.6	-0.6	-236.6	0.00	0.00	0.00
5,135.6	3.66	359.85	5,128.0	238.9	-0.6	-238.9	0.00	0.00	0.00
Bell Canyon									
5,200.0	3.66	359.85	5,192.3	243.0	-0.6	-243.0	0.00	0.00	0.00
5,300.0	3.66	359.85	5,292.1	249.4	-0.6	-249.4	0.00	0.00	0.00
5,400.0	3.66	359.85	5,391.9	255.7	-0.7	-255.7	0.00	0.00	0.00
5,500.0	3.66	359.85	5,491.7	262.1	-0.7	-262.1	0.00	0.00	0.00
5,600.0	3.66	359.85	5,591.5	268.5	-0.7	-268.5	0.00	0.00	0.00
5,700.0	3.66	359.85	5,691.3	274.9	-0.7	-274.9	0.00	0.00	0.00
5,800.0	3.66	359.85	5,791.1	281.3	-0.7	-281.2	0.00	0.00	0.00
5,900.0	3.66	359.85	5,890.9	287.6	-0.7	-287.6	0.00	0.00	0.00
6,000.0	3.66	359.85	5,990.7	294.0	-0.8	-294.0	0.00	0.00	0.00
6,100.0	3.66	359.85	6,090.5	300.4	-0.8	-300.4	0.00	0.00	0.00
6,100.5	3.66	359.85	6,091.0	300.4	-0.8	-300.4	0.00	0.00	0.00
Cherry Canyon									
6,200.0	3.66	359.85	6,190.3	306.8	-0.8	-306.8	0.00	0.00	0.00
6,300.0	3.66	359.85	6,290.1	313.1	-0.8	-313.1	0.00	0.00	0.00
6,400.0	3.66	359.85	6,389.9	319.5	-0.8	-319.5	0.00	0.00	0.00
6,500.0	3.66	359.85	6,489.7	325.9	-0.8	-325.9	0.00	0.00	0.00
6,600.0	3.66	359.85	6,589.5	332.3	-0.8	-332.3	0.00	0.00	0.00
6,700.0	3.66	359.85	6,689.2	338.7	-0.9	-338.7	0.00	0.00	0.00
6,800.0	3.66	359.85	6,789.0	345.0	-0.9	-345.0	0.00	0.00	0.00
6,900.0	3.66	359.85	6,888.8	351.4	-0.9	-351.4	0.00	0.00	0.00
7,000.0	3.66	359.85	6,988.6	357.8	-0.9	-357.8	0.00	0.00	0.00
7,100.0	3.66	359.85	7,088.4	364.2	-0.9	-364.2	0.00	0.00	0.00
7,200.0	3.66	359.85	7,188.2	370.6	-0.9	-370.6	0.00	0.00	0.00
7,300.0	3.66	359.85	7,288.0	376.9	-1.0	-376.9	0.00	0.00	0.00
7,400.0	3.66	359.85	7,387.8	383.3	-1.0	-383.3	0.00	0.00	0.00
7,444.5	3.66	359.85	7,432.2	386.2	-1.0	-386.2	0.00	0.00	0.00
7,500.0	2.55	359.85	7,487.6	389.2	-1.0	-389.2	2.00	-2.00	0.00
7,600.0	0.55	359.85	7,587.6	391.9	-1.0	-391.9	2.00	-2.00	0.00
7,627.4	0.00	0.00	7,615.0	392.0	-1.0	-392.0	2.00	-2.00	0.00
Brushy Canyon									
7,700.0	0.00	0.00	7,687.6	392.0	-1.0	-392.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,787.6	392.0	-1.0	-392.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,887.6	392.0	-1.0	-392.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,987.6	392.0	-1.0	-392.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,087.6	392.0	-1.0	-392.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,187.6	392.0	-1.0	-392.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,287.6	392.0	-1.0	-392.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,387.6	392.0	-1.0	-392.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,487.6	392.0	-1.0	-392.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,587.6	392.0	-1.0	-392.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,687.6	392.0	-1.0	-392.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,787.6	392.0	-1.0	-392.0	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,900.0	0.00	0.00	8,887.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,987.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,087.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,121.4	0.00	0.00	9,109.0	392.0	-1.0	-392.0	0.00	0.00	0.00
Bone Spring Lime									
9,200.0	0.00	0.00	9,187.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,274.4	0.00	0.00	9,262.0	392.0	-1.0	-392.0	0.00	0.00	0.00
Leonard A									
9,300.0	0.00	0.00	9,287.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,387.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,487.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,571.4	0.00	0.00	9,559.0	392.0	-1.0	-392.0	0.00	0.00	0.00
Leonard B									
9,600.0	0.00	0.00	9,587.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,687.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,787.6	392.0	-1.0	-392.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,887.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,987.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,087.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,136.4	0.00	0.00	10,124.0	392.0	-1.0	-392.0	0.00	0.00	0.00
First Bone Spring Sand									
10,200.0	0.00	0.00	10,187.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,287.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,390.4	0.00	0.00	10,378.0	392.0	-1.0	-392.0	0.00	0.00	0.00
SBSG Shale									
10,400.0	0.00	0.00	10,387.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,487.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,587.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,687.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,796.4	0.00	0.00	10,784.0	392.0	-1.0	-392.0	0.00	0.00	0.00
SBSG Sand									
10,800.0	0.00	0.00	10,787.6	392.0	-1.0	-392.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,887.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,987.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,087.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,187.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,287.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,315.4	0.00	0.00	11,303.0	392.0	-1.0	-392.0	0.00	0.00	0.00
Third Bone Spring Carb									
11,400.0	0.00	0.00	11,387.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,487.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,600.0	0.00	0.00	11,587.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,687.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,800.0	0.00	0.00	11,787.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,900.0	0.00	0.00	11,887.6	392.0	-1.0	-392.0	0.00	0.00	0.00
11,932.4	0.00	0.00	11,920.0	392.0	-1.0	-392.0	0.00	0.00	0.00
Thirld Bone Spring Sand									
11,984.9	0.00	0.00	11,972.5	392.0	-1.0	-392.0	0.00	0.00	0.00
12,000.0	1.81	179.60	11,987.6	391.8	-1.0	-391.8	12.00	12.00	0.00
12,025.0	4.81	179.60	12,012.6	390.3	-1.0	-390.3	12.00	12.00	0.00
12,050.0	7.81	179.60	12,037.4	387.6	-1.0	-387.6	12.00	12.00	0.00
12,075.0	10.81	179.60	12,062.1	383.5	-0.9	-383.5	12.00	12.00	0.00
12,100.0	13.81	179.60	12,086.5	378.2	-0.9	-378.2	12.00	12.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 29 State Com
 Well: #701Y
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #701Y
 TVD Reference: KB = 25' @ 3553.0usft
 MD Reference: KB = 25' @ 3553.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,125.0	16.81	179.60	12,110.6	371.6	-0.9	-371.6	12.00	12.00	0.00
12,150.0	19.81	179.60	12,134.3	363.7	-0.8	-363.7	12.00	12.00	0.00
12,175.0	22.81	179.60	12,157.6	354.7	-0.7	-354.6	12.00	12.00	0.00
12,200.0	25.81	179.60	12,180.4	344.4	-0.7	-344.4	12.00	12.00	0.00
12,225.0	28.81	179.60	12,202.6	332.9	-0.6	-332.9	12.00	12.00	0.00
12,250.0	31.81	179.60	12,224.2	320.3	-0.5	-320.3	12.00	12.00	0.00
12,252.1	32.07	179.60	12,226.0	319.1	-0.5	-319.1	12.00	12.00	0.00
Third Bone FS									
12,275.0	34.81	179.60	12,245.1	306.5	-0.4	-306.5	12.00	12.00	0.00
12,300.0	37.81	179.60	12,265.2	291.7	-0.3	-291.7	12.00	12.00	0.00
12,325.0	40.81	179.60	12,284.6	275.9	-0.2	-275.9	12.00	12.00	0.00
12,350.0	43.81	179.60	12,303.1	259.1	-0.1	-259.1	12.00	12.00	0.00
12,375.0	46.81	179.60	12,320.6	241.3	0.0	-241.3	12.00	12.00	0.00
12,400.0	49.81	179.60	12,337.3	222.6	0.2	-222.6	12.00	12.00	0.00
12,425.0	52.81	179.60	12,352.9	203.1	0.3	-203.1	12.00	12.00	0.00
12,449.2	55.71	179.60	12,367.0	183.5	0.4	-183.5	12.00	12.00	0.00
Wolfcamp									
12,450.0	55.81	179.60	12,367.5	182.8	0.5	-182.8	12.00	12.00	0.00
12,475.0	58.81	179.60	12,381.0	161.8	0.6	-161.8	12.00	12.00	0.00
12,477.0	59.05	179.60	12,382.0	160.1	0.6	-160.1	12.00	12.00	0.00
Wfmp Clastics X									
12,500.0	61.81	179.60	12,393.3	140.1	0.8	-140.1	12.00	12.00	0.00
12,525.0	64.81	179.60	12,404.6	117.7	0.9	-117.7	12.00	12.00	0.00
12,550.0	67.81	179.60	12,414.6	94.8	1.1	-94.8	12.00	12.00	0.00
12,575.0	70.81	179.60	12,423.4	71.5	1.2	-71.5	12.00	12.00	0.00
12,600.0	73.81	179.60	12,431.0	47.6	1.4	-47.6	12.00	12.00	0.00
12,625.0	76.81	179.60	12,437.4	23.5	1.6	-23.5	12.00	12.00	0.00
12,637.2	78.27	179.60	12,440.0	11.6	1.6	-11.6	12.00	12.00	0.00
Wfmp Clastics Y									
12,647.6	79.52	179.60	12,442.0	1.4	1.7	-1.4	12.00	12.00	0.00
Wolfcamp Y TOW									
12,650.0	79.81	179.60	12,442.4	-1.0	1.7	1.0	12.00	12.00	0.00
12,675.0	82.81	179.60	12,446.2	-25.7	1.9	25.7	12.00	12.00	0.00
12,700.0	85.81	179.60	12,448.7	-50.6	2.1	50.6	12.00	12.00	0.00
12,725.0	88.81	179.60	12,449.9	-75.6	2.2	75.6	12.00	12.00	0.00
12,734.6	89.96	179.60	12,450.0	-85.1	2.3	85.1	12.00	12.00	0.00
12,800.0	89.96	179.60	12,450.0	-150.6	2.8	150.6	0.00	0.00	0.00
12,900.0	89.96	179.60	12,450.1	-250.6	3.5	250.6	0.00	0.00	0.00
13,000.0	89.96	179.60	12,450.1	-350.6	4.2	350.6	0.00	0.00	0.00
13,100.0	89.96	179.60	12,450.2	-450.6	4.9	450.6	0.00	0.00	0.00
13,200.0	89.96	179.60	12,450.3	-550.5	5.6	550.6	0.00	0.00	0.00
13,300.0	89.96	179.60	12,450.4	-650.5	6.2	650.6	0.00	0.00	0.00
13,400.0	89.96	179.60	12,450.4	-750.5	6.9	750.6	0.00	0.00	0.00
13,500.0	89.96	179.60	12,450.5	-850.5	7.6	850.6	0.00	0.00	0.00
13,600.0	89.96	179.60	12,450.6	-950.5	8.3	950.6	0.00	0.00	0.00
13,700.0	89.96	179.60	12,450.6	-1,050.5	9.0	1,050.6	0.00	0.00	0.00
13,800.0	89.96	179.60	12,450.7	-1,150.5	9.7	1,150.6	0.00	0.00	0.00
13,900.0	89.96	179.60	12,450.8	-1,250.5	10.4	1,250.6	0.00	0.00	0.00
14,000.0	89.96	179.60	12,450.8	-1,350.5	11.1	1,350.6	0.00	0.00	0.00
14,100.0	89.96	179.60	12,450.9	-1,450.5	11.8	1,450.6	0.00	0.00	0.00
14,200.0	89.96	179.60	12,451.0	-1,550.5	12.5	1,550.6	0.00	0.00	0.00
14,300.0	89.96	179.60	12,451.0	-1,650.5	13.2	1,650.6	0.00	0.00	0.00
14,400.0	89.96	179.60	12,451.1	-1,750.5	13.9	1,750.6	0.00	0.00	0.00



Planning Report

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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,500.0	89.96	179.60	12,451.2	-1,850.5	14.6	1,850.6	0.00	0.00	0.00
14,600.0	89.96	179.60	12,451.3	-1,950.5	15.3	1,950.6	0.00	0.00	0.00
14,700.0	89.96	179.60	12,451.3	-2,050.5	16.0	2,050.6	0.00	0.00	0.00
14,800.0	89.96	179.60	12,451.4	-2,150.5	16.7	2,150.6	0.00	0.00	0.00
14,900.0	89.96	179.60	12,451.5	-2,250.5	17.4	2,250.6	0.00	0.00	0.00
15,000.0	89.96	179.60	12,451.5	-2,350.5	18.1	2,350.6	0.00	0.00	0.00
15,100.0	89.96	179.60	12,451.6	-2,450.5	18.8	2,450.6	0.00	0.00	0.00
15,200.0	89.96	179.60	12,451.7	-2,550.5	19.5	2,550.6	0.00	0.00	0.00
15,300.0	89.96	179.60	12,451.7	-2,650.5	20.1	2,650.6	0.00	0.00	0.00
15,400.0	89.96	179.60	12,451.8	-2,750.5	20.8	2,750.6	0.00	0.00	0.00
15,500.0	89.96	179.60	12,451.9	-2,850.5	21.5	2,850.6	0.00	0.00	0.00
15,600.0	89.96	179.60	12,451.9	-2,950.5	22.2	2,950.6	0.00	0.00	0.00
15,700.0	89.96	179.60	12,452.0	-3,050.5	22.9	3,050.6	0.00	0.00	0.00
15,800.0	89.96	179.60	12,452.1	-3,150.5	23.6	3,150.6	0.00	0.00	0.00
15,900.0	89.96	179.60	12,452.2	-3,250.5	24.3	3,250.6	0.00	0.00	0.00
16,000.0	89.96	179.60	12,452.2	-3,350.5	25.0	3,350.6	0.00	0.00	0.00
16,100.0	89.96	179.60	12,452.3	-3,450.5	25.7	3,450.6	0.00	0.00	0.00
16,200.0	89.96	179.60	12,452.4	-3,550.5	26.4	3,550.6	0.00	0.00	0.00
16,300.0	89.96	179.60	12,452.4	-3,650.5	27.1	3,650.6	0.00	0.00	0.00
16,400.0	89.96	179.60	12,452.5	-3,750.5	27.8	3,750.6	0.00	0.00	0.00
16,500.0	89.96	179.60	12,452.6	-3,850.5	28.5	3,850.6	0.00	0.00	0.00
16,600.0	89.96	179.60	12,452.6	-3,950.5	29.2	3,950.6	0.00	0.00	0.00
16,700.0	89.96	179.60	12,452.7	-4,050.5	29.9	4,050.6	0.00	0.00	0.00
16,800.0	89.96	179.60	12,452.8	-4,150.5	30.6	4,150.6	0.00	0.00	0.00
16,900.0	89.96	179.60	12,452.8	-4,250.5	31.3	4,250.6	0.00	0.00	0.00
17,000.0	89.96	179.60	12,452.9	-4,350.5	32.0	4,350.6	0.00	0.00	0.00
17,100.0	89.96	179.60	12,453.0	-4,450.5	32.7	4,450.6	0.00	0.00	0.00
17,200.0	89.96	179.60	12,453.0	-4,550.5	33.4	4,550.6	0.00	0.00	0.00
17,300.0	89.96	179.60	12,453.1	-4,650.4	34.0	4,650.6	0.00	0.00	0.00
17,400.0	89.96	179.60	12,453.2	-4,750.4	34.7	4,750.6	0.00	0.00	0.00
17,500.0	89.96	179.60	12,453.3	-4,850.4	35.4	4,850.6	0.00	0.00	0.00
17,600.0	89.96	179.60	12,453.3	-4,950.4	36.1	4,950.6	0.00	0.00	0.00
17,700.0	89.96	179.60	12,453.4	-5,050.4	36.8	5,050.6	0.00	0.00	0.00
17,800.0	89.96	179.60	12,453.5	-5,150.4	37.5	5,150.6	0.00	0.00	0.00
17,900.0	89.96	179.60	12,453.5	-5,250.4	38.2	5,250.6	0.00	0.00	0.00
18,000.0	89.96	179.60	12,453.6	-5,350.4	38.9	5,350.6	0.00	0.00	0.00
18,100.0	89.96	179.60	12,453.7	-5,450.4	39.6	5,450.6	0.00	0.00	0.00
18,200.0	89.96	179.60	12,453.7	-5,550.4	40.3	5,550.6	0.00	0.00	0.00
18,300.0	89.96	179.60	12,453.8	-5,650.4	41.0	5,650.6	0.00	0.00	0.00
18,400.0	89.96	179.60	12,453.9	-5,750.4	41.7	5,750.6	0.00	0.00	0.00
18,500.0	89.96	179.60	12,453.9	-5,850.4	42.4	5,850.6	0.00	0.00	0.00
18,600.0	89.96	179.60	12,454.0	-5,950.4	43.1	5,950.6	0.00	0.00	0.00
18,700.0	89.96	179.60	12,454.1	-6,050.4	43.8	6,050.6	0.00	0.00	0.00
18,800.0	89.96	179.60	12,454.2	-6,150.4	44.5	6,150.6	0.00	0.00	0.00
18,900.0	89.96	179.60	12,454.2	-6,250.4	45.2	6,250.6	0.00	0.00	0.00
19,000.0	89.96	179.60	12,454.3	-6,350.4	45.9	6,350.6	0.00	0.00	0.00
19,100.0	89.96	179.60	12,454.4	-6,450.4	46.6	6,450.6	0.00	0.00	0.00
19,200.0	89.96	179.60	12,454.4	-6,550.4	47.3	6,550.6	0.00	0.00	0.00
19,300.0	89.96	179.60	12,454.5	-6,650.4	47.9	6,650.6	0.00	0.00	0.00
19,400.0	89.96	179.60	12,454.6	-6,750.4	48.6	6,750.6	0.00	0.00	0.00
19,500.0	89.96	179.60	12,454.6	-6,850.4	49.3	6,850.6	0.00	0.00	0.00
19,600.0	89.96	179.60	12,454.7	-6,950.4	50.0	6,950.6	0.00	0.00	0.00
19,700.0	89.96	179.60	12,454.8	-7,050.4	50.7	7,050.6	0.00	0.00	0.00
19,800.0	89.96	179.60	12,454.8	-7,150.4	51.4	7,150.6	0.00	0.00	0.00



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TVD Reference: KB = 25' @ 3553.0usft
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,900.0	89.96	179.60	12,454.9	-7,250.4	52.1	7,250.6	0.00	0.00	0.00
20,000.0	89.96	179.60	12,455.0	-7,350.4	52.8	7,350.6	0.00	0.00	0.00
20,026.6	89.96	179.60	12,455.0	-7,377.0	53.0	7,377.2	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Brushy Top(Bandit 29 St	0.00	0.00	7,615.0	392.0	-1.0	435,751.00	772,251.00	32° 11' 44.712 N	103° 35' 12.628 W
- plan hits target center									
- Polygon									
Point 1			7,615.0	30.0	-50.0	435,781.00	772,201.00		
Point 2			7,615.0	30.0	30.0	435,781.00	772,281.00		
Point 3			7,615.0	-50.0	30.0	435,701.00	772,281.00		
Point 4			7,615.0	-50.0	-50.0	435,701.00	772,201.00		
FTP(Bandit 29 St Com #	0.00	0.00	12,450.0	342.0	-1.0	435,701.00	772,251.00	32° 11' 44.218 N	103° 35' 12.632 W
- plan misses target center by 163.4usft at 12385.8usft MD (12328.0 TVD, 233.3 N, 0.1 E)									
- Point									
PBHL(Bandit 29 St Com	90.00	179.60	12,455.0	-7,377.0	53.0	427,982.00	772,305.00	32° 10' 27.832 N	103° 35' 12.627 W
- plan hits target center									
- Rectangle (sides W60.0 H0.0 D7,708.8)									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,187.0	1,187.0	Rustler			
1,260.0	1,260.0	Tamarisk Anhydrite			
1,529.2	1,529.0	Top of Salt			
5,021.3	5,014.0	Bottom of Salt			
5,093.5	5,086.0	Lamar			
5,135.6	5,128.0	Bell Canyon			
6,100.5	6,091.0	Cherry Canyon			
7,627.4	7,615.0	Brushy Canyon			
9,121.4	9,109.0	Bone Spring Lime			
9,274.4	9,262.0	Leonard A			
9,571.4	9,559.0	Leonard B			
10,136.4	10,124.0	First Bone Spring Sand			
10,390.4	10,378.0	SBSG Shale			
10,796.4	10,784.0	SBSG Sand			
11,315.4	11,303.0	Third Bone Spring Carb			
11,932.4	11,920.0	Third Bone Spring Sand			
12,252.1	12,226.0	Third Bone FS			
12,449.2	12,367.0	Wolfcamp			
12,477.0	12,382.0	Wfmp Clastics X			
12,637.2	12,440.0	Wfmp Clastics Y			
12,647.6	12,442.0	Wolfcamp Y TOW			



Planning Report

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Well:	#701Y	Survey Calculation Method:	Minimum Curvature
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