



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ares 4 State

#703H

OH

Plan: Plan #0.2

Standard Planning Report

26 April, 2018

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ares 4 State
Well: #703H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3611.0usft
MD Reference: KB = 25' @ 3611.0usft
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: Ares 4 State

Site Position: Northing: 451,993.00 usft Latitude: 32° 14' 25.072 N
From: Map Easting: 777,413.00 usft Longitude: 103° 34' 11.215 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.41 °

Well: #703H

Well Position: +N/-S 649.0 usft Northing: 452,642.00 usft Latitude: 32° 14' 31.551 N
+E/-W -824.0 usft Easting: 776,589.00 usft Longitude: 103° 34' 20.755 W
Position Uncertainty: 0.0 usft Wellhead Elevation: Ground Level: 3,586.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/19/2017	6.96	60.08	47,955.83001980

Design: Plan #0.2

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	357.80

Plan Survey Tool Program Date: 4/26/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,364.0 Plan #0.2 (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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,699.2	6.99	186.51	4,697.5	-42.3	-4.8	1.00	1.00	0.00	186.51	
12,036.2	6.99	186.51	11,979.9	-929.7	-106.2	0.00	0.00	0.00	0.00	
12,844.0	90.00	359.52	12,515.0	-455.8	-118.1	12.00	10.28	21.42	172.95	
17,364.0	90.00	359.52	12,515.0	4,064.0	-156.0	0.00	0.00	0.00	0.00	0.00 PBHL (Ares 4 State #

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 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)
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
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
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	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	1.00	186.51	4,100.0	-0.9	-0.1	-0.9	1.00	1.00	0.00
4,200.0	2.00	186.51	4,200.0	-3.5	-0.4	-3.5	1.00	1.00	0.00
4,300.0	3.00	186.51	4,299.9	-7.8	-0.9	-7.8	1.00	1.00	0.00
4,400.0	4.00	186.51	4,399.7	-13.9	-1.6	-13.8	1.00	1.00	0.00
4,500.0	5.00	186.51	4,499.4	-21.7	-2.5	-21.6	1.00	1.00	0.00
4,600.0	6.00	186.51	4,598.9	-31.2	-3.6	-31.0	1.00	1.00	0.00
4,699.2	6.99	186.51	4,697.5	-42.3	-4.8	-42.1	1.00	1.00	0.00
4,800.0	6.99	186.51	4,797.5	-54.5	-6.2	-54.2	0.00	0.00	0.00
4,900.0	6.99	186.51	4,896.8	-66.6	-7.6	-66.3	0.00	0.00	0.00
5,000.0	6.99	186.51	4,996.0	-78.7	-9.0	-78.3	0.00	0.00	0.00
5,100.0	6.99	186.51	5,095.3	-90.8	-10.4	-90.3	0.00	0.00	0.00
5,200.0	6.99	186.51	5,194.5	-102.9	-11.8	-102.4	0.00	0.00	0.00
5,300.0	6.99	186.51	5,293.8	-115.0	-13.1	-114.4	0.00	0.00	0.00

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Well #703H
KB = 25' @ 3611.0usft
KB = 25' @ 3611.0usft
Grid
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)
5,400.0	6.99	186.51	5,393.1	-127.1	-14.5	-126.4	0.00	0.00	0.00
5,500.0	6.99	186.51	5,492.3	-139.2	-15.9	-138.5	0.00	0.00	0.00
5,600.0	6.99	186.51	5,591.6	-151.3	-17.3	-150.5	0.00	0.00	0.00
5,700.0	6.99	186.51	5,690.8	-163.4	-18.7	-162.5	0.00	0.00	0.00
5,800.0	6.99	186.51	5,790.1	-175.5	-20.0	-174.6	0.00	0.00	0.00
5,900.0	6.99	186.51	5,889.3	-187.6	-21.4	-186.6	0.00	0.00	0.00
6,000.0	6.99	186.51	5,988.6	-199.7	-22.8	-198.6	0.00	0.00	0.00
6,100.0	6.99	186.51	6,087.8	-211.8	-24.2	-210.7	0.00	0.00	0.00
6,200.0	6.99	186.51	6,187.1	-223.9	-25.6	-222.7	0.00	0.00	0.00
6,300.0	6.99	186.51	6,286.4	-235.9	-26.9	-234.7	0.00	0.00	0.00
6,400.0	6.99	186.51	6,385.6	-248.0	-28.3	-246.8	0.00	0.00	0.00
6,500.0	6.99	186.51	6,484.9	-260.1	-29.7	-258.8	0.00	0.00	0.00
6,600.0	6.99	186.51	6,584.1	-272.2	-31.1	-270.8	0.00	0.00	0.00
6,700.0	6.99	186.51	6,683.4	-284.3	-32.5	-282.9	0.00	0.00	0.00
6,800.0	6.99	186.51	6,782.6	-296.4	-33.9	-294.9	0.00	0.00	0.00
6,900.0	6.99	186.51	6,881.9	-308.5	-35.2	-306.9	0.00	0.00	0.00
7,000.0	6.99	186.51	6,981.2	-320.6	-36.6	-319.0	0.00	0.00	0.00
7,100.0	6.99	186.51	7,080.4	-332.7	-38.0	-331.0	0.00	0.00	0.00
7,200.0	6.99	186.51	7,179.7	-344.8	-39.4	-343.0	0.00	0.00	0.00
7,300.0	6.99	186.51	7,278.9	-356.9	-40.8	-355.1	0.00	0.00	0.00
7,400.0	6.99	186.51	7,378.2	-369.0	-42.1	-367.1	0.00	0.00	0.00
7,500.0	6.99	186.51	7,477.4	-381.1	-43.5	-379.1	0.00	0.00	0.00
7,600.0	6.99	186.51	7,576.7	-393.2	-44.9	-391.2	0.00	0.00	0.00
7,700.0	6.99	186.51	7,675.9	-405.3	-46.3	-403.2	0.00	0.00	0.00
7,800.0	6.99	186.51	7,775.2	-417.4	-47.7	-415.2	0.00	0.00	0.00
7,900.0	6.99	186.51	7,874.5	-429.5	-49.0	-427.3	0.00	0.00	0.00
8,000.0	6.99	186.51	7,973.7	-441.6	-50.4	-439.3	0.00	0.00	0.00
8,100.0	6.99	186.51	8,073.0	-453.7	-51.8	-451.3	0.00	0.00	0.00
8,200.0	6.99	186.51	8,172.2	-465.7	-53.2	-463.4	0.00	0.00	0.00
8,300.0	6.99	186.51	8,271.5	-477.8	-54.6	-475.4	0.00	0.00	0.00
8,400.0	6.99	186.51	8,370.7	-489.9	-55.9	-487.4	0.00	0.00	0.00
8,500.0	6.99	186.51	8,470.0	-502.0	-57.3	-499.5	0.00	0.00	0.00
8,600.0	6.99	186.51	8,569.3	-514.1	-58.7	-511.5	0.00	0.00	0.00
8,700.0	6.99	186.51	8,668.5	-526.2	-60.1	-523.5	0.00	0.00	0.00
8,800.0	6.99	186.51	8,767.8	-538.3	-61.5	-535.6	0.00	0.00	0.00
8,900.0	6.99	186.51	8,867.0	-550.4	-62.9	-547.6	0.00	0.00	0.00
9,000.0	6.99	186.51	8,966.3	-562.5	-64.2	-559.6	0.00	0.00	0.00
9,100.0	6.99	186.51	9,065.5	-574.6	-65.6	-571.7	0.00	0.00	0.00
9,200.0	6.99	186.51	9,164.8	-586.7	-67.0	-583.7	0.00	0.00	0.00
9,300.0	6.99	186.51	9,264.0	-598.8	-68.4	-595.7	0.00	0.00	0.00
9,400.0	6.99	186.51	9,363.3	-610.9	-69.8	-607.8	0.00	0.00	0.00
9,500.0	6.99	186.51	9,462.6	-623.0	-71.1	-619.8	0.00	0.00	0.00
9,600.0	6.99	186.51	9,561.8	-635.1	-72.5	-631.8	0.00	0.00	0.00
9,700.0	6.99	186.51	9,661.1	-647.2	-73.9	-643.9	0.00	0.00	0.00
9,800.0	6.99	186.51	9,760.3	-659.3	-75.3	-655.9	0.00	0.00	0.00
9,900.0	6.99	186.51	9,859.6	-671.4	-76.7	-667.9	0.00	0.00	0.00
10,000.0	6.99	186.51	9,958.8	-683.5	-78.0	-680.0	0.00	0.00	0.00
10,100.0	6.99	186.51	10,058.1	-695.5	-79.4	-692.0	0.00	0.00	0.00
10,200.0	6.99	186.51	10,157.4	-707.6	-80.8	-704.0	0.00	0.00	0.00
10,300.0	6.99	186.51	10,256.6	-719.7	-82.2	-716.1	0.00	0.00	0.00
10,400.0	6.99	186.51	10,355.9	-731.8	-83.6	-728.1	0.00	0.00	0.00
10,500.0	6.99	186.51	10,455.1	-743.9	-85.0	-740.1	0.00	0.00	0.00
10,600.0	6.99	186.51	10,554.4	-756.0	-86.3	-752.2	0.00	0.00	0.00
10,700.0	6.99	186.51	10,653.6	-768.1	-87.7	-764.2	0.00	0.00	0.00

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10,800.0	6.99	186.51	10,752.9	-780.2	-89.1	-776.2	0.00	0.00	0.00
10,900.0	6.99	186.51	10,852.1	-792.3	-90.5	-788.3	0.00	0.00	0.00
11,000.0	6.99	186.51	10,951.4	-804.4	-91.9	-800.3	0.00	0.00	0.00
11,100.0	6.99	186.51	11,050.7	-816.5	-93.2	-812.3	0.00	0.00	0.00
11,200.0	6.99	186.51	11,149.9	-828.6	-94.6	-824.3	0.00	0.00	0.00
11,300.0	6.99	186.51	11,249.2	-840.7	-96.0	-836.4	0.00	0.00	0.00
11,400.0	6.99	186.51	11,348.4	-852.8	-97.4	-848.4	0.00	0.00	0.00
11,500.0	6.99	186.51	11,447.7	-864.9	-98.8	-860.4	0.00	0.00	0.00
11,600.0	6.99	186.51	11,546.9	-877.0	-100.1	-872.5	0.00	0.00	0.00
11,700.0	6.99	186.51	11,646.2	-889.1	-101.5	-884.5	0.00	0.00	0.00
11,800.0	6.99	186.51	11,745.5	-901.2	-102.9	-896.5	0.00	0.00	0.00
11,900.0	6.99	186.51	11,844.7	-913.3	-104.3	-908.6	0.00	0.00	0.00
12,000.0	6.99	186.51	11,944.0	-925.3	-105.7	-920.6	0.00	0.00	0.00
12,036.2	6.99	186.51	11,979.9	-929.7	-106.2	-925.0	0.00	0.00	0.00
12,050.0	5.35	188.69	11,993.6	-931.2	-106.4	-926.4	12.00	-11.88	15.78
12,075.0	2.44	200.04	12,018.6	-932.8	-106.7	-928.1	12.00	-11.65	45.41
12,100.0	1.12	309.43	12,043.6	-933.2	-107.1	-928.4	12.00	-5.30	437.54
12,125.0	3.81	346.57	12,068.5	-932.2	-107.5	-927.4	12.00	10.79	148.57
12,150.0	6.77	352.29	12,093.4	-930.0	-107.9	-925.1	12.00	11.83	22.89
12,175.0	9.75	354.54	12,118.2	-926.4	-108.3	-921.6	12.00	11.93	8.97
12,200.0	12.74	355.73	12,142.7	-921.5	-108.7	-916.7	12.00	11.96	4.79
12,225.0	15.74	356.48	12,166.9	-915.4	-109.1	-910.5	12.00	11.98	2.99
12,250.0	18.73	357.00	12,190.8	-908.0	-109.5	-903.1	12.00	11.98	2.06
12,275.0	21.73	357.37	12,214.2	-899.4	-109.9	-894.5	12.00	11.99	1.51
12,300.0	24.73	357.66	12,237.2	-889.5	-110.4	-884.6	12.00	11.99	1.16
12,325.0	27.73	357.89	12,259.6	-878.5	-110.8	-873.6	12.00	11.99	0.92
12,350.0	30.73	358.08	12,281.4	-866.3	-111.2	-861.4	12.00	11.99	0.75
12,375.0	33.73	358.24	12,302.6	-853.0	-111.6	-848.0	12.00	12.00	0.63
12,400.0	36.72	358.37	12,323.0	-838.5	-112.1	-833.6	12.00	12.00	0.54
12,425.0	39.72	358.49	12,342.6	-823.1	-112.5	-818.2	12.00	12.00	0.47
12,450.0	42.72	358.59	12,361.4	-806.6	-112.9	-801.7	12.00	12.00	0.41
12,475.0	45.72	358.69	12,379.4	-789.2	-113.3	-784.3	12.00	12.00	0.37
12,500.0	48.72	358.77	12,396.3	-770.8	-113.7	-765.9	12.00	12.00	0.33
12,525.0	51.72	358.84	12,412.3	-751.6	-114.1	-746.7	12.00	12.00	0.30
12,550.0	54.72	358.91	12,427.3	-731.6	-114.5	-726.7	12.00	12.00	0.28
12,575.0	57.72	358.98	12,441.2	-710.8	-114.9	-705.9	12.00	12.00	0.26
12,600.0	60.72	359.04	12,454.0	-689.4	-115.3	-684.4	12.00	12.00	0.24
12,625.0	63.72	359.10	12,465.6	-667.3	-115.6	-662.3	12.00	12.00	0.23
12,650.0	66.72	359.15	12,476.1	-644.6	-116.0	-639.6	12.00	12.00	0.22
12,656.6	67.51	359.17	12,478.7	-638.5	-116.1	-633.6	12.00	12.00	0.21
FTP (Ares 4 State #703H)									
12,675.0	69.72	359.20	12,485.4	-621.4	-116.3	-616.4	12.00	12.00	0.21
12,700.0	72.72	359.25	12,493.4	-597.7	-116.6	-592.8	12.00	12.00	0.20
12,725.0	75.72	359.30	12,500.2	-573.6	-116.9	-568.7	12.00	12.00	0.19
12,750.0	78.72	359.35	12,505.8	-549.3	-117.2	-544.4	12.00	12.00	0.19
12,775.0	81.72	359.40	12,510.0	-524.6	-117.5	-519.7	12.00	12.00	0.18
12,800.0	84.72	359.44	12,513.0	-499.8	-117.7	-494.9	12.00	12.00	0.18
12,825.0	87.72	359.49	12,514.6	-474.9	-118.0	-470.0	12.00	12.00	0.18
12,844.0	90.00	359.52	12,515.0	-455.8	-118.1	-451.0	12.00	12.00	0.18
12,900.0	90.00	359.52	12,515.0	-399.9	-118.6	-395.0	0.00	0.00	0.00
13,000.0	90.00	359.52	12,515.0	-299.9	-119.4	-295.1	0.00	0.00	0.00
13,100.0	90.00	359.52	12,515.0	-199.9	-120.3	-195.1	0.00	0.00	0.00
13,200.0	90.00	359.52	12,515.0	-99.9	-121.1	-95.2	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ares 4 State
Well: #703H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3611.0usft
MD Reference: KB = 25' @ 3611.0usft
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)
13,300.0	90.00	359.52	12,515.0	0.1	-122.0	4.8	0.00	0.00	0.00
13,400.0	90.00	359.52	12,515.0	100.1	-122.8	104.7	0.00	0.00	0.00
13,500.0	90.00	359.52	12,515.0	200.1	-123.6	204.7	0.00	0.00	0.00
13,600.0	90.00	359.52	12,515.0	300.1	-124.5	304.6	0.00	0.00	0.00
13,700.0	90.00	359.52	12,515.0	400.1	-125.3	404.6	0.00	0.00	0.00
13,800.0	90.00	359.52	12,515.0	500.1	-126.1	504.6	0.00	0.00	0.00
13,900.0	90.00	359.52	12,515.0	600.1	-127.0	604.5	0.00	0.00	0.00
14,000.0	90.00	359.52	12,515.0	700.1	-127.8	704.5	0.00	0.00	0.00
14,100.0	90.00	359.52	12,515.0	800.1	-128.7	804.4	0.00	0.00	0.00
14,200.0	90.00	359.52	12,515.0	900.1	-129.5	904.4	0.00	0.00	0.00
14,300.0	90.00	359.52	12,515.0	1,000.1	-130.3	1,004.3	0.00	0.00	0.00
14,400.0	90.00	359.52	12,515.0	1,100.1	-131.2	1,104.3	0.00	0.00	0.00
14,500.0	90.00	359.52	12,515.0	1,200.1	-132.0	1,204.2	0.00	0.00	0.00
14,600.0	90.00	359.52	12,515.0	1,300.1	-132.8	1,304.2	0.00	0.00	0.00
14,700.0	90.00	359.52	12,515.0	1,400.1	-133.7	1,404.2	0.00	0.00	0.00
14,800.0	90.00	359.52	12,515.0	1,500.1	-134.5	1,504.1	0.00	0.00	0.00
14,900.0	90.00	359.52	12,515.0	1,600.0	-135.4	1,604.1	0.00	0.00	0.00
15,000.0	90.00	359.52	12,515.0	1,700.0	-136.2	1,704.0	0.00	0.00	0.00
15,100.0	90.00	359.52	12,515.0	1,800.0	-137.0	1,804.0	0.00	0.00	0.00
15,200.0	90.00	359.52	12,515.0	1,900.0	-137.9	1,903.9	0.00	0.00	0.00
15,300.0	90.00	359.52	12,515.0	2,000.0	-138.7	2,003.9	0.00	0.00	0.00
15,400.0	90.00	359.52	12,515.0	2,100.0	-139.5	2,103.8	0.00	0.00	0.00
15,500.0	90.00	359.52	12,515.0	2,200.0	-140.4	2,203.8	0.00	0.00	0.00
15,600.0	90.00	359.52	12,515.0	2,300.0	-141.2	2,303.7	0.00	0.00	0.00
15,700.0	90.00	359.52	12,515.0	2,400.0	-142.1	2,403.7	0.00	0.00	0.00
15,800.0	90.00	359.52	12,515.0	2,500.0	-142.9	2,503.7	0.00	0.00	0.00
15,900.0	90.00	359.52	12,515.0	2,600.0	-143.7	2,603.6	0.00	0.00	0.00
16,000.0	90.00	359.52	12,515.0	2,700.0	-144.6	2,703.6	0.00	0.00	0.00
16,100.0	90.00	359.52	12,515.0	2,800.0	-145.4	2,803.5	0.00	0.00	0.00
16,200.0	90.00	359.52	12,515.0	2,900.0	-146.2	2,903.5	0.00	0.00	0.00
16,300.0	90.00	359.52	12,515.0	3,000.0	-147.1	3,003.4	0.00	0.00	0.00
16,400.0	90.00	359.52	12,515.0	3,100.0	-147.9	3,103.4	0.00	0.00	0.00
16,500.0	90.00	359.52	12,515.0	3,200.0	-148.8	3,203.3	0.00	0.00	0.00
16,600.0	90.00	359.52	12,515.0	3,300.0	-149.6	3,303.3	0.00	0.00	0.00
16,700.0	90.00	359.52	12,515.0	3,400.0	-150.4	3,403.3	0.00	0.00	0.00
16,800.0	90.00	359.52	12,515.0	3,500.0	-151.3	3,503.2	0.00	0.00	0.00
16,900.0	90.00	359.52	12,515.0	3,600.0	-152.1	3,603.2	0.00	0.00	0.00
17,000.0	90.00	359.52	12,515.0	3,700.0	-153.0	3,703.1	0.00	0.00	0.00
17,100.0	90.00	359.52	12,515.0	3,800.0	-153.8	3,803.1	0.00	0.00	0.00
17,200.0	90.00	359.52	12,515.0	3,900.0	-154.6	3,903.0	0.00	0.00	0.00
17,300.0	90.00	359.52	12,515.0	4,000.0	-155.5	4,003.0	0.00	0.00	0.00
17,364.0	90.00	359.52	12,515.0	4,064.0	-156.0	4,067.0	0.00	0.00	0.00

PBHL (Ares 4 State #703H)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ares 4 State
Well: #703H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3611.0usft
MD Reference: KB = 25' @ 3611.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
FTP (Ares 4 State #703H) - plan misses target center by 39.1usft at 12656.6usft MD (12478.7 TVD, -638.5 N, -116.1 E) - Point	0.00	0.00	12,515.0	-653.0	-117.0	451,989.00	776,472.00	32° 14' 25.098 N	103° 34' 22.171 W
PBHL (Ares 4 State #703H) - plan hits target center - Point	0.00	0.00	12,515.0	4,064.0	-156.0	456,706.00	776,433.00	32° 15' 11.776 N	103° 34' 22.236 W



Lea County, NM (NAD 83 NME)

Ares 4 State #703H

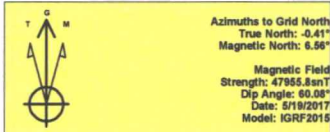
Plan #0.2

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #703H

Ground Level: 3586.0
KB = 25' @ 3511.0usft
Northing 655842.00 Easting 776589.00 Latitude 32° 14' 31.551 N Longitude 103° 34' 20.755 W



To convert a Magnetic Direction to a Grid Direction, Add 6.56°
To convert a Magnetic Direction to a True Direction, Add 6.96° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

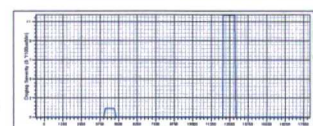
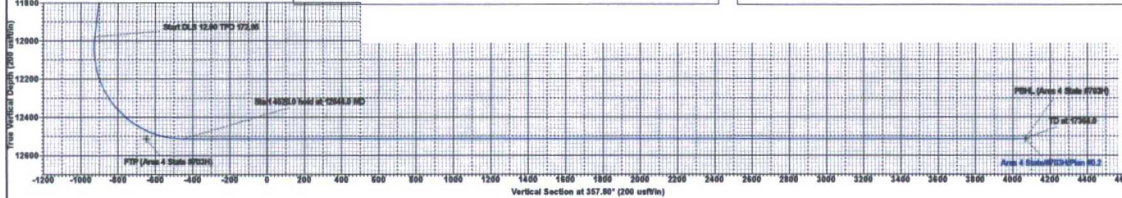
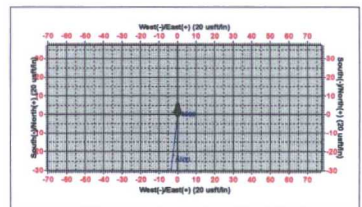
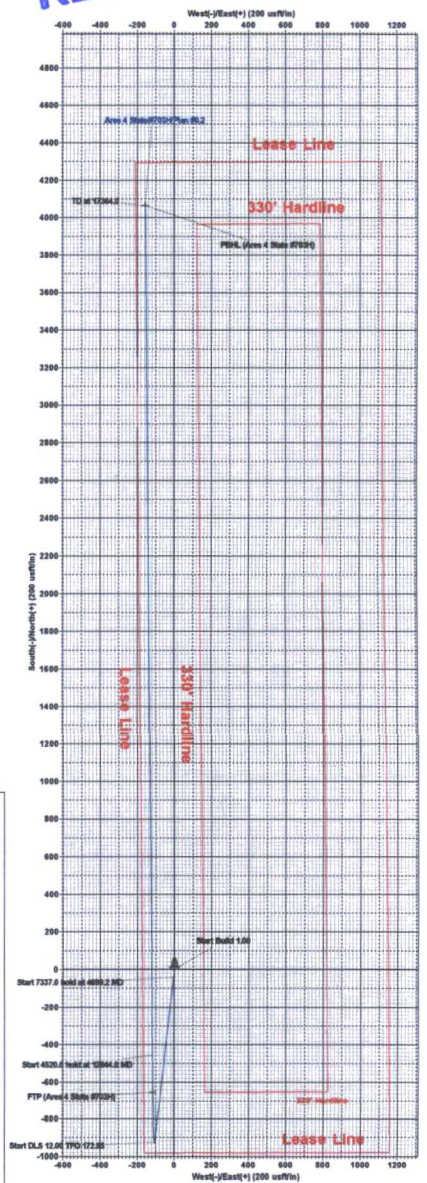
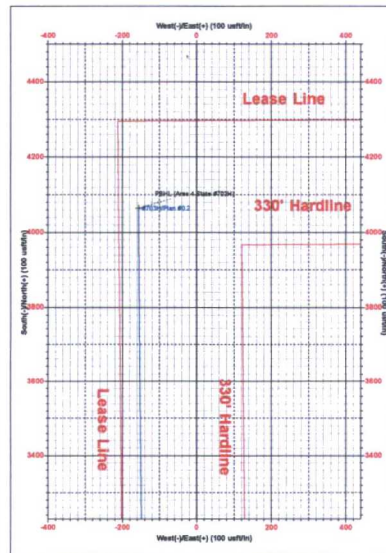
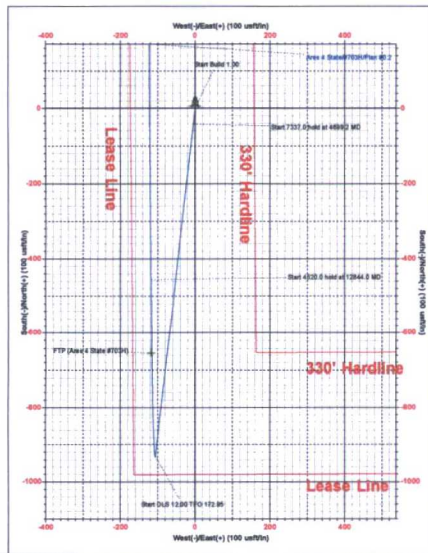
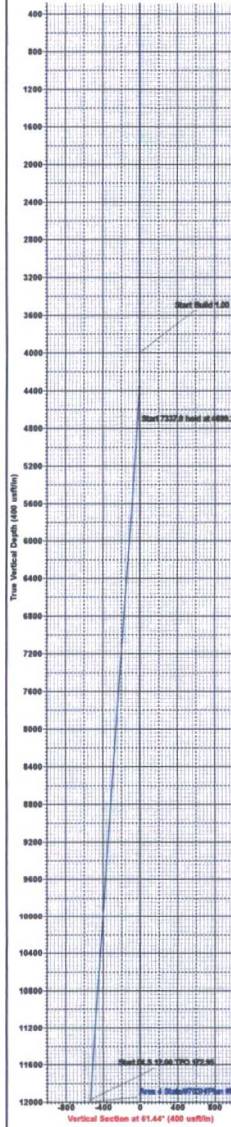
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Drag	TFace	VSec	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0		
3	4699.2	6.99	186.51	4697.5	-42.3	-4.8	1.00	186.51	-42.1		
4	12036.2	6.99	186.51	11979.9	-829.7	-106.2	0.00	0.00	-826.0		
5	12844.0	90.00	359.52	12815.0	-455.8	-118.1	12.00	172.95	-451.0		
6	17364.0	90.00	359.52	12815.0	4064.0	-106.0	0.00	0.00	4067.0		PBHL (Ares 4 State #703H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBHL (Ares 4 State #703H)	12815.0	4064.0	-158.0	467706.00	776433.00
FTP (Ares 4 State #703H)	12815.0	-653.0	-117.0	461989.00	776472.00



Lea County, NM (NAD 83 NME)
Ares 4 State #703H
Plan #0.2
12/01/2018