



Lea County, NM (NAD 83 NME)

Ares 4 State #703H

Plan #0.1



Azimuths to Grid North
True North: 0.41°
Magnetic North: 6.96°

Magnetic Field
Strength: 47955.5nT
Dip Angle: 60.08°
Date: 5/19/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.96°
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°

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: 3588.00
KB = 25' @ 3611.00usft
Northing: 452642.00
Easting: 776589.00
Latitude: 32.24209780
Longitude: -103.57243187

SECTION DETAILS

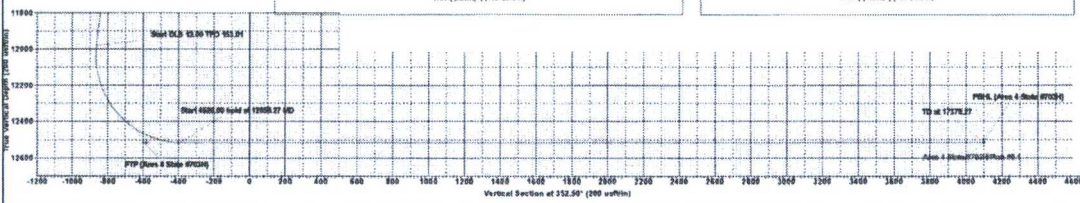
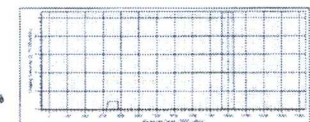
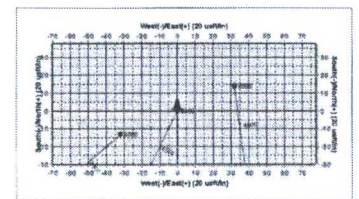
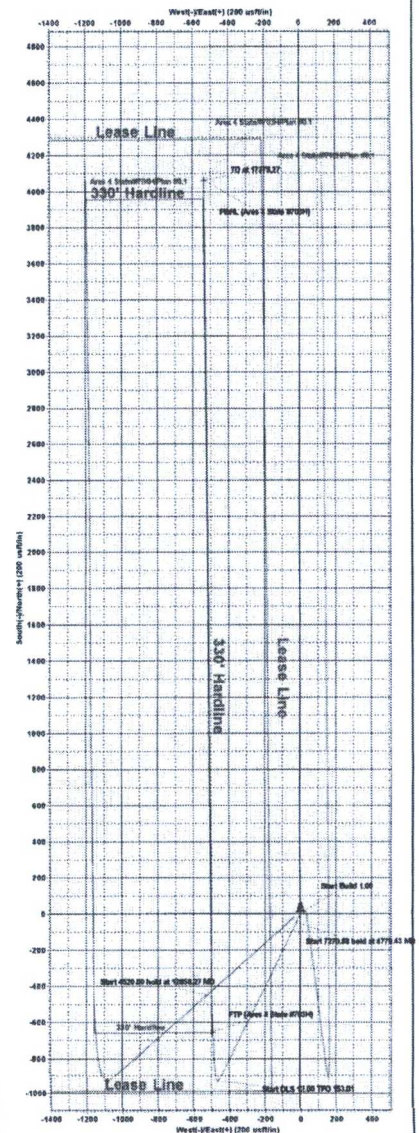
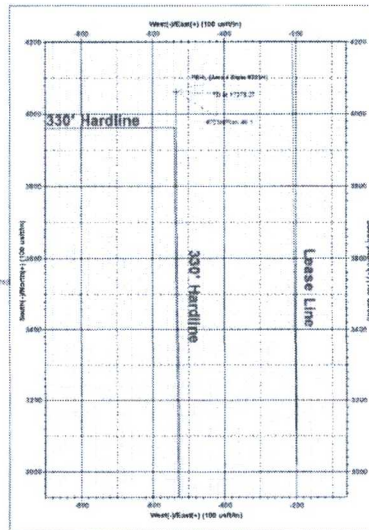
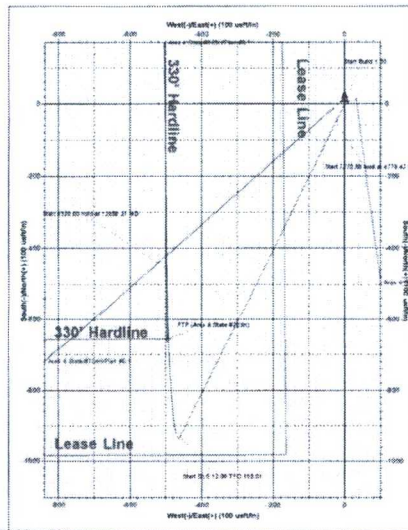
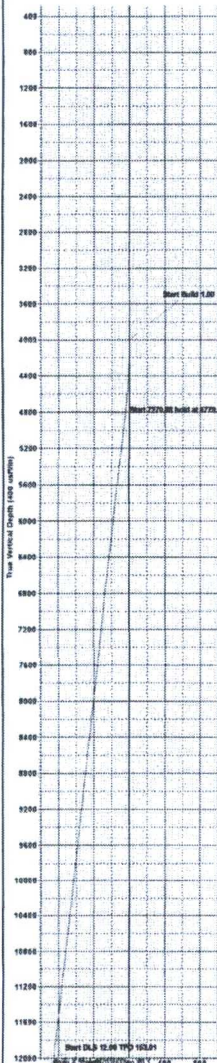
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSecl	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00		
3	4778.43	7.79	206.29	4777.02	-47.46	23.45	1.00	206.29	-43.99		
4	12050.31	7.79	206.29	11890.74	-931.50	-460.22	0.00	0.00	-863.43		
5	12898.27	90.00	359.52	12516.00	-487.84	-487.13	12.00	153.01	-399.01		
6	17378.27	90.00	359.52	12516.00	-4862.00	-636.00	0.00	0.00	-4087.00		PBHL (Area 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 (Area 4 State #703H)	12516.00	-4862.00	-636.00	451988.00	776054.00
FTP (Area 4 State #703H)	12516.00	-4864.00	-496.00	451988.00	776093.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ares 4 State

#703H

OH

Plan: Plan #0.1

Standard Planning Report

19 May, 2017



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ares 4 State
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3611.00usft
MD Reference: KB = 25' @ 3611.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

Site	Ares 4 State				
Site Position:		Northing:	451,993.00 usft	Latitude:	32.24029765
From:	Map	Easting:	777,413.00 usft	Longitude:	-103.56978184
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 "

Well	#703H					
Well Position	+N/-S	649.00 usft	Northing:	452,642.00 usft	Latitude:	32.24209760
	+E/-W	-824.00 usft	Easting:	776,589.00 usft	Longitude:	-103.57243187
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level:	3,586.00 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 #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	352.50

Plan Survey Tool Program	Date 5/19/2017			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,378.27 Plan #0.1 (OH)	MWD	
			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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,779.43	7.79	206.29	4,777.03	-47.46	-23.45	1.00	1.00	0.00	206.29	
12,050.31	7.79	206.29	11,980.74	-931.50	-460.22	0.00	0.00	0.00	0.00	
12,858.27	90.00	359.52	12,515.00	-457.84	-497.13	12.00	10.17	18.96	153.01	
17,378.27	90.00	359.52	12,515.00	4,062.00	-535.00	0.00	0.00	0.00	0.00	PBHL (Ares 4 State #



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 Design: Plan #0.1

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 TVD Reference: KB = 25' @ 3611.00usft
 MD Reference: KB = 25' @ 3611.00usft
 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	1.00	206.29	4,100.00	-0.78	-0.39	-0.73	1.00	1.00	0.00
4,200.00	2.00	206.29	4,199.96	-3.13	-1.55	-2.90	1.00	1.00	0.00
4,300.00	3.00	206.29	4,299.86	-7.04	-3.48	-6.53	1.00	1.00	0.00
4,400.00	4.00	206.29	4,399.68	-12.51	-6.18	-11.60	1.00	1.00	0.00
4,500.00	5.00	206.29	4,499.37	-19.55	-9.66	-18.12	1.00	1.00	0.00
4,600.00	6.00	206.29	4,598.90	-28.14	-13.90	-26.08	1.00	1.00	0.00
4,700.00	7.00	206.29	4,698.26	-38.29	-18.92	-35.49	1.00	1.00	0.00
4,779.43	7.79	206.29	4,777.03	-47.46	-23.45	-43.99	1.00	1.00	0.00
4,800.00	7.79	206.29	4,797.41	-49.96	-24.68	-46.31	0.00	0.00	0.00
4,900.00	7.79	206.29	4,896.48	-62.12	-30.69	-57.58	0.00	0.00	0.00
5,000.00	7.79	206.29	4,995.56	-74.28	-36.70	-68.85	0.00	0.00	0.00
5,100.00	7.79	206.29	5,094.64	-86.43	-42.70	-80.12	0.00	0.00	0.00
5,200.00	7.79	206.29	5,193.71	-98.59	-48.71	-91.39	0.00	0.00	0.00



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Planning Report

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 Site: Ares 4 State
 Well: #703H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
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 MD Reference: KB = 25' @ 3611.00usft
 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)
5,300.00	7.79	206.29	5,292.79	-110.75	-54.72	-102.66	0.00	0.00	0.00
5,400.00	7.79	206.29	5,391.87	-122.91	-60.73	-113.93	0.00	0.00	0.00
5,500.00	7.79	206.29	5,490.94	-135.07	-66.73	-125.20	0.00	0.00	0.00
5,600.00	7.79	206.29	5,590.02	-147.23	-72.74	-136.47	0.00	0.00	0.00
5,700.00	7.79	206.29	5,689.09	-159.39	-78.75	-147.74	0.00	0.00	0.00
5,800.00	7.79	206.29	5,788.17	-171.55	-84.75	-159.01	0.00	0.00	0.00
5,900.00	7.79	206.29	5,887.25	-183.70	-90.76	-170.28	0.00	0.00	0.00
6,000.00	7.79	206.29	5,986.32	-195.86	-96.77	-181.55	0.00	0.00	0.00
6,100.00	7.79	206.29	6,085.40	-208.02	-102.78	-192.82	0.00	0.00	0.00
6,200.00	7.79	206.29	6,184.47	-220.18	-108.78	-204.09	0.00	0.00	0.00
6,300.00	7.79	206.29	6,283.55	-232.34	-114.79	-215.36	0.00	0.00	0.00
6,400.00	7.79	206.29	6,382.63	-244.50	-120.80	-226.63	0.00	0.00	0.00
6,500.00	7.79	206.29	6,481.70	-256.66	-126.81	-237.90	0.00	0.00	0.00
6,600.00	7.79	206.29	6,580.78	-268.81	-132.81	-249.17	0.00	0.00	0.00
6,700.00	7.79	206.29	6,679.85	-280.97	-138.82	-260.44	0.00	0.00	0.00
6,800.00	7.79	206.29	6,778.93	-293.13	-144.83	-271.71	0.00	0.00	0.00
6,900.00	7.79	206.29	6,878.01	-305.29	-150.83	-282.98	0.00	0.00	0.00
7,000.00	7.79	206.29	6,977.08	-317.45	-156.84	-294.25	0.00	0.00	0.00
7,100.00	7.79	206.29	7,076.16	-329.61	-162.85	-305.52	0.00	0.00	0.00
7,200.00	7.79	206.29	7,175.24	-341.77	-168.86	-316.79	0.00	0.00	0.00
7,300.00	7.79	206.29	7,274.31	-353.93	-174.86	-328.06	0.00	0.00	0.00
7,400.00	7.79	206.29	7,373.39	-366.08	-180.87	-339.33	0.00	0.00	0.00
7,500.00	7.79	206.29	7,472.46	-378.24	-186.88	-350.60	0.00	0.00	0.00
7,600.00	7.79	206.29	7,571.54	-390.40	-192.88	-361.87	0.00	0.00	0.00
7,700.00	7.79	206.29	7,670.62	-402.56	-198.89	-373.14	0.00	0.00	0.00
7,800.00	7.79	206.29	7,769.69	-414.72	-204.90	-384.41	0.00	0.00	0.00
7,900.00	7.79	206.29	7,868.77	-426.88	-210.91	-395.68	0.00	0.00	0.00
8,000.00	7.79	206.29	7,967.84	-439.04	-216.91	-406.95	0.00	0.00	0.00
8,100.00	7.79	206.29	8,066.92	-451.19	-222.92	-418.22	0.00	0.00	0.00
8,200.00	7.79	206.29	8,166.00	-463.35	-228.93	-429.49	0.00	0.00	0.00
8,300.00	7.79	206.29	8,265.07	-475.51	-234.93	-440.76	0.00	0.00	0.00
8,400.00	7.79	206.29	8,364.15	-487.67	-240.94	-452.03	0.00	0.00	0.00
8,500.00	7.79	206.29	8,463.23	-499.83	-246.95	-463.30	0.00	0.00	0.00
8,600.00	7.79	206.29	8,562.30	-511.99	-252.96	-474.57	0.00	0.00	0.00
8,700.00	7.79	206.29	8,661.38	-524.15	-258.96	-485.84	0.00	0.00	0.00
8,800.00	7.79	206.29	8,760.45	-536.31	-264.97	-497.11	0.00	0.00	0.00
8,900.00	7.79	206.29	8,859.53	-548.46	-270.98	-508.38	0.00	0.00	0.00
9,000.00	7.79	206.29	8,958.61	-560.62	-276.98	-519.65	0.00	0.00	0.00
9,100.00	7.79	206.29	9,057.68	-572.78	-282.99	-530.92	0.00	0.00	0.00
9,200.00	7.79	206.29	9,156.76	-584.94	-289.00	-542.19	0.00	0.00	0.00
9,300.00	7.79	206.29	9,255.83	-597.10	-295.01	-553.46	0.00	0.00	0.00
9,400.00	7.79	206.29	9,354.91	-609.26	-301.01	-564.73	0.00	0.00	0.00
9,500.00	7.79	206.29	9,453.99	-621.42	-307.02	-576.00	0.00	0.00	0.00
9,600.00	7.79	206.29	9,553.06	-633.58	-313.03	-587.27	0.00	0.00	0.00
9,700.00	7.79	206.29	9,652.14	-645.73	-319.04	-598.54	0.00	0.00	0.00
9,800.00	7.79	206.29	9,751.22	-657.89	-325.04	-609.82	0.00	0.00	0.00
9,900.00	7.79	206.29	9,850.29	-670.05	-331.05	-621.09	0.00	0.00	0.00
10,000.00	7.79	206.29	9,949.37	-682.21	-337.06	-632.36	0.00	0.00	0.00
10,100.00	7.79	206.29	10,048.44	-694.37	-343.06	-643.63	0.00	0.00	0.00
10,200.00	7.79	206.29	10,147.52	-706.53	-349.07	-654.90	0.00	0.00	0.00
10,300.00	7.79	206.29	10,246.60	-718.69	-355.08	-666.17	0.00	0.00	0.00
10,400.00	7.79	206.29	10,345.67	-730.84	-361.09	-677.44	0.00	0.00	0.00
10,500.00	7.79	206.29	10,444.75	-743.00	-367.09	-688.71	0.00	0.00	0.00
10,600.00	7.79	206.29	10,543.82	-755.16	-373.10	-699.98	0.00	0.00	0.00



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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)
10,700.00	7.79	206.29	10,642.90	-767.32	-379.11	-711.25	0.00	0.00	0.00
10,800.00	7.79	206.29	10,741.98	-779.48	-385.11	-722.52	0.00	0.00	0.00
10,900.00	7.79	206.29	10,841.05	-791.64	-391.12	-733.79	0.00	0.00	0.00
11,000.00	7.79	206.29	10,940.13	-803.80	-397.13	-745.06	0.00	0.00	0.00
11,100.00	7.79	206.29	11,039.20	-815.96	-403.14	-756.33	0.00	0.00	0.00
11,200.00	7.79	206.29	11,138.28	-828.11	-409.14	-767.60	0.00	0.00	0.00
11,300.00	7.79	206.29	11,237.36	-840.27	-415.15	-778.87	0.00	0.00	0.00
11,400.00	7.79	206.29	11,336.43	-852.43	-421.16	-790.14	0.00	0.00	0.00
11,500.00	7.79	206.29	11,435.51	-864.59	-427.16	-801.41	0.00	0.00	0.00
11,600.00	7.79	206.29	11,534.59	-876.75	-433.17	-812.68	0.00	0.00	0.00
11,700.00	7.79	206.29	11,633.66	-888.91	-439.18	-823.95	0.00	0.00	0.00
11,800.00	7.79	206.29	11,732.74	-901.07	-445.19	-835.22	0.00	0.00	0.00
11,900.00	7.79	206.29	11,831.81	-913.22	-451.19	-846.49	0.00	0.00	0.00
12,000.00	7.79	206.29	11,930.89	-925.38	-457.20	-857.76	0.00	0.00	0.00
12,050.31	7.79	206.29	11,980.74	-931.50	-460.22	-863.43	0.00	0.00	0.00
12,075.00	5.33	220.93	12,005.26	-933.87	-461.72	-865.58	12.00	-10.00	59.28
12,100.00	3.66	253.80	12,030.19	-934.97	-463.24	-866.47	12.00	-6.64	131.51
12,125.00	4.06	299.19	12,055.14	-934.76	-464.78	-866.06	12.00	1.58	181.54
12,150.00	6.12	324.44	12,080.04	-933.24	-466.33	-864.36	12.00	8.26	101.00
12,175.00	8.75	335.89	12,104.83	-930.42	-467.88	-861.36	12.00	10.49	45.81
12,200.00	11.55	341.96	12,129.44	-926.31	-469.44	-857.08	12.00	11.23	24.28
12,225.00	14.44	345.66	12,153.79	-920.90	-470.98	-851.52	12.00	11.54	14.79
12,250.00	17.36	348.14	12,177.84	-914.23	-472.52	-844.70	12.00	11.69	9.93
12,275.00	20.30	349.93	12,201.50	-906.31	-474.05	-836.65	12.00	11.78	7.13
12,300.00	23.26	351.27	12,224.71	-897.16	-475.55	-827.38	12.00	11.83	5.39
12,325.00	26.23	352.33	12,247.41	-886.80	-477.04	-816.92	12.00	11.87	4.23
12,350.00	29.20	353.19	12,269.54	-875.27	-478.50	-805.29	12.00	11.89	3.42
12,375.00	32.18	353.90	12,291.03	-862.59	-479.93	-792.53	12.00	11.91	2.84
12,400.00	35.16	354.50	12,311.84	-848.80	-481.33	-778.68	12.00	11.93	2.41
12,425.00	38.15	355.02	12,331.89	-833.94	-482.69	-763.77	12.00	11.94	2.08
12,450.00	41.13	355.47	12,351.14	-818.05	-484.01	-747.84	12.00	11.94	1.82
12,475.00	44.12	355.87	12,369.53	-801.17	-485.29	-730.94	12.00	11.95	1.61
12,500.00	47.11	356.24	12,387.02	-783.35	-486.52	-713.11	12.00	11.96	1.45
12,525.00	50.10	356.56	12,403.55	-764.63	-487.69	-694.40	12.00	11.96	1.31
12,550.00	53.09	356.87	12,419.08	-745.07	-488.81	-674.87	12.00	11.96	1.20
12,575.00	56.08	357.14	12,433.56	-724.73	-489.88	-654.56	12.00	11.97	1.11
12,600.00	59.07	357.40	12,446.97	-703.65	-490.88	-633.53	12.00	11.97	1.04
12,625.00	62.07	357.65	12,459.25	-681.90	-491.82	-611.84	12.00	11.97	0.97
12,650.00	65.06	357.88	12,470.38	-659.54	-492.69	-589.55	12.00	11.97	0.92
12,672.94	67.81	358.08	12,479.55	-638.53	-493.43	-568.63	12.00	11.97	0.88
FTP (Ares 4 State #703H)									
12,675.00	68.05	358.10	12,480.32	-636.62	-493.50	-566.72	12.00	11.97	0.86
12,700.00	71.05	358.31	12,489.06	-613.21	-494.23	-543.42	12.00	11.97	0.84
12,725.00	74.04	358.51	12,496.56	-589.37	-494.89	-519.70	12.00	11.97	0.81
12,750.00	77.03	358.71	12,502.80	-565.17	-495.48	-495.63	12.00	11.98	0.79
12,775.00	80.03	358.90	12,507.77	-540.68	-495.99	-471.28	12.00	11.98	0.77
12,800.00	83.02	359.09	12,511.46	-515.96	-496.43	-446.72	12.00	11.98	0.76
12,825.00	86.02	359.27	12,513.84	-491.08	-496.78	-422.00	12.00	11.98	0.75
12,850.00	89.01	359.46	12,514.93	-466.11	-497.06	-397.21	12.00	11.98	0.74
12,858.27	90.00	359.52	12,515.00	-457.84	-497.13	-389.01	12.00	11.98	0.74
12,900.00	90.00	359.52	12,515.00	-416.11	-497.48	-347.59	0.00	0.00	0.00
13,000.00	90.00	359.52	12,515.00	-316.11	-498.32	-248.34	0.00	0.00	0.00
13,100.00	90.00	359.52	12,515.00	-216.12	-499.16	-149.09	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Ares 4 State
 Well: #703H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25' @ 3611.00usft
 MD Reference: KB = 25' @ 3611.00usft
 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)
13,200.00	90.00	359.52	12,515.00	-116.12	-500.00	-49.84	0.00	0.00	0.00
13,300.00	90.00	359.52	12,515.00	-16.12	-500.83	49.41	0.00	0.00	0.00
13,400.00	90.00	359.52	12,515.00	83.87	-501.67	148.66	0.00	0.00	0.00
13,500.00	90.00	359.52	12,515.00	183.87	-502.51	247.91	0.00	0.00	0.00
13,600.00	90.00	359.52	12,515.00	283.87	-503.35	347.16	0.00	0.00	0.00
13,700.00	90.00	359.52	12,515.00	383.86	-504.19	446.41	0.00	0.00	0.00
13,800.00	90.00	359.52	12,515.00	483.86	-505.02	545.66	0.00	0.00	0.00
13,900.00	90.00	359.52	12,515.00	583.86	-505.86	644.91	0.00	0.00	0.00
14,000.00	90.00	359.52	12,515.00	683.85	-506.70	744.16	0.00	0.00	0.00
14,100.00	90.00	359.52	12,515.00	783.85	-507.54	843.41	0.00	0.00	0.00
14,200.00	90.00	359.52	12,515.00	883.84	-508.37	942.66	0.00	0.00	0.00
14,300.00	90.00	359.52	12,515.00	983.84	-509.21	1,041.91	0.00	0.00	0.00
14,400.00	90.00	359.52	12,515.00	1,083.84	-510.05	1,141.16	0.00	0.00	0.00
14,500.00	90.00	359.52	12,515.00	1,183.83	-510.89	1,240.41	0.00	0.00	0.00
14,600.00	90.00	359.52	12,515.00	1,283.83	-511.73	1,339.66	0.00	0.00	0.00
14,700.00	90.00	359.52	12,515.00	1,383.83	-512.56	1,438.91	0.00	0.00	0.00
14,800.00	90.00	359.52	12,515.00	1,483.82	-513.40	1,538.16	0.00	0.00	0.00
14,900.00	90.00	359.52	12,515.00	1,583.82	-514.24	1,637.41	0.00	0.00	0.00
15,000.00	90.00	359.52	12,515.00	1,683.82	-515.08	1,736.66	0.00	0.00	0.00
15,100.00	90.00	359.52	12,515.00	1,783.81	-515.91	1,835.91	0.00	0.00	0.00
15,200.00	90.00	359.52	12,515.00	1,883.81	-516.75	1,935.16	0.00	0.00	0.00
15,300.00	90.00	359.52	12,515.00	1,983.81	-517.59	2,034.41	0.00	0.00	0.00
15,400.00	90.00	359.52	12,515.00	2,083.80	-518.43	2,133.66	0.00	0.00	0.00
15,500.00	90.00	359.52	12,515.00	2,183.80	-519.26	2,232.91	0.00	0.00	0.00
15,600.00	90.00	359.52	12,515.00	2,283.80	-520.10	2,332.16	0.00	0.00	0.00
15,700.00	90.00	359.52	12,515.00	2,383.79	-520.94	2,431.41	0.00	0.00	0.00
15,800.00	90.00	359.52	12,515.00	2,483.79	-521.78	2,530.66	0.00	0.00	0.00
15,900.00	90.00	359.52	12,515.00	2,583.78	-522.62	2,629.91	0.00	0.00	0.00
16,000.00	90.00	359.52	12,515.00	2,683.78	-523.45	2,729.15	0.00	0.00	0.00
16,100.00	90.00	359.52	12,515.00	2,783.78	-524.29	2,828.40	0.00	0.00	0.00
16,200.00	90.00	359.52	12,515.00	2,883.77	-525.13	2,927.65	0.00	0.00	0.00
16,300.00	90.00	359.52	12,515.00	2,983.77	-525.97	3,026.90	0.00	0.00	0.00
16,400.00	90.00	359.52	12,515.00	3,083.77	-526.80	3,126.15	0.00	0.00	0.00
16,500.00	90.00	359.52	12,515.00	3,183.76	-527.64	3,225.40	0.00	0.00	0.00
16,600.00	90.00	359.52	12,515.00	3,283.76	-528.48	3,324.65	0.00	0.00	0.00
16,700.00	90.00	359.52	12,515.00	3,383.76	-529.32	3,423.90	0.00	0.00	0.00
16,800.00	90.00	359.52	12,515.00	3,483.75	-530.16	3,523.15	0.00	0.00	0.00
16,900.00	90.00	359.52	12,515.00	3,583.75	-530.99	3,622.40	0.00	0.00	0.00
17,000.00	90.00	359.52	12,515.00	3,683.75	-531.83	3,721.65	0.00	0.00	0.00
17,100.00	90.00	359.52	12,515.00	3,783.74	-532.67	3,820.90	0.00	0.00	0.00
17,200.00	90.00	359.52	12,515.00	3,883.74	-533.51	3,920.15	0.00	0.00	0.00
17,300.00	90.00	359.52	12,515.00	3,983.74	-534.34	4,019.40	0.00	0.00	0.00
17,378.27	90.00	359.52	12,515.00	4,062.00	-535.00	4,097.08	0.00	0.00	0.00

PBHL (Ares 4 State #703H)



EOG Resources, Inc.

Planning Report

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Project: Lea County, NM (NAD 83 NME)
Site: Ares 4 State
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3611.00usft
MD Reference: KB = 25' @ 3611.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Ares 4 State #703H) - plan misses target center by 38.77usft at 12672.94usft MD (12479.55 TVD, -638.53 N, -493.43 E) - Point	0.00	0.00	12,515.00	-654.00	-496.00	451,988.00	776,093.00	32.24030963	-103.57405097
PBHL (Ares 4 State #70H) - plan hits target center - Point	0.00	0.00	12,515.00	4,062.00	-535.00	456,704.00	776,054.00	32.25327304	-103.57406926