



Lea County, NM (NAD 83 NME)

Ares 4 State #704H

Plan #0.1

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: #704H

Ground Level: 3589.00
KB = 25' @ 3611.00usft
Northing: 452629.00
Easting: 778857.00
Latitude: 32.34206250
Longitude: -103.87253568



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.58°
Magnetic Field
Strength: 47965.5mT
Dip Angle: 60.09°
Date: 5/19/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction: Add 6.58°
To convert a Magnetic Direction to a True Direction: Add 0.99° East
To convert a True Direction to a Grid Direction: Subtract 0.41°

SECTION DETAILS

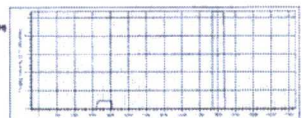
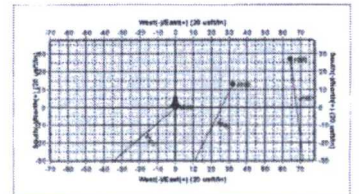
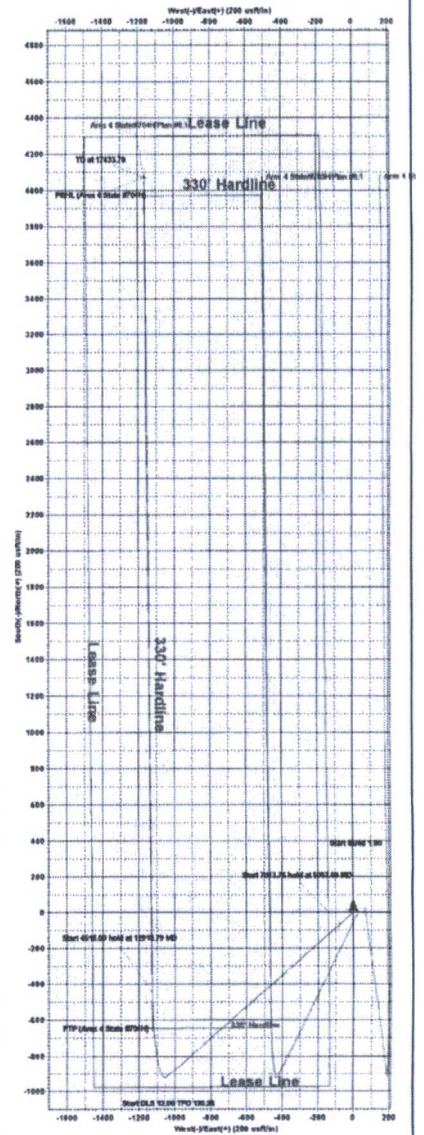
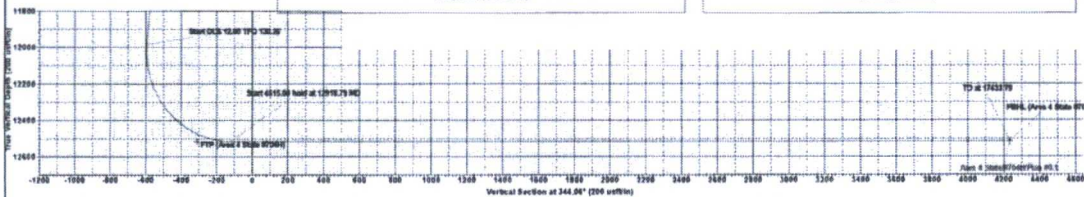
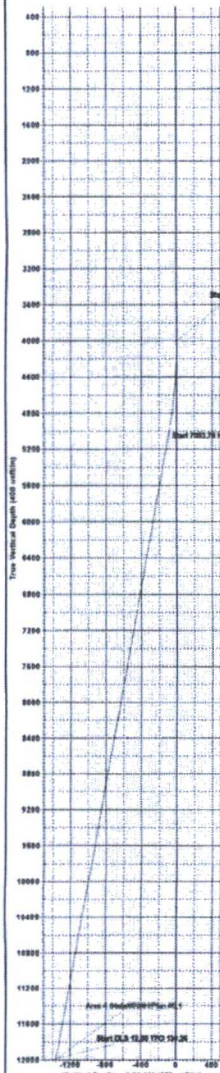
Sec	MD	Inc	Asl	TVD	+N-S	+E-W	Deg	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4090.00	0.00	0.00	4090.00	0.00	0.00	0.00	0.00	0.00		
3	6057.89	10.58	228.79	6051.69	-84.14	-73.23	1.00	228.78	-41.56		
4	12111.45	10.66	228.79	11995.60	-817.24	-1047.19	0.00	0.00	-884.31		
5	12918.79	90.00	309.33	12916.00	-443.89	-1126.36	12.00	130.26	-117.48		
6	17432.79	90.00	359.53	12916.00	-4071.00	-1163.00	0.00	0.00	4233.96		PBHL (Area 4 State #704H)

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 #704H)	12916.00	-4071.00	-1183.00	466700.00	775264.00
FTP (Area 4 State #704H)	12916.00	-444.00	-1129.00	481995.00	775432.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ares 4 State

#704H

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: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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	#704H			
Well Position	+N/-S	636.00 usft	Northing:	452,629.00 usft
	+E/-W	-856.00 usft	Easting:	776,557.00 usft
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	47,955.79816357

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	344.06

Plan Survey Tool Program	Date 5/19/2017			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,433.79 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	
5,057.69	10.58	228.78	5,051.69	-64.14	-73.23	1.00	1.00	0.00	228.78	
12,111.45	10.58	228.78	11,985.60	-917.24	-1,047.19	0.00	0.00	0.00	0.00	
12,918.79	90.00	359.53	12,515.00	-443.85	-1,125.96	12.00	9.84	16.19	130.26	
17,433.79	90.00	359.53	12,515.00	4,071.00	-1,163.00	0.00	0.00	0.00	0.00	PBHL (Ares 4 State #



EOG Resources, Inc.

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 Site: Ares 4 State
 Well: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
 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	228.78	4,100.00	-0.57	-0.66	-0.37	1.00	1.00	0.00
4,200.00	2.00	228.78	4,199.96	-2.30	-2.63	-1.49	1.00	1.00	0.00
4,300.00	3.00	228.78	4,299.86	-5.17	-5.91	-3.35	1.00	1.00	0.00
4,400.00	4.00	228.78	4,399.68	-9.20	-10.50	-5.96	1.00	1.00	0.00
4,500.00	5.00	228.78	4,499.37	-14.37	-16.40	-9.31	1.00	1.00	0.00
4,600.00	6.00	228.78	4,598.90	-20.68	-23.61	-13.40	1.00	1.00	0.00
4,700.00	7.00	228.78	4,698.26	-28.14	-32.13	-18.23	1.00	1.00	0.00
4,800.00	8.00	228.78	4,797.40	-36.74	-41.94	-23.80	1.00	1.00	0.00
4,900.00	9.00	228.78	4,896.30	-46.48	-53.06	-30.11	1.00	1.00	0.00
5,000.00	10.00	228.78	4,994.93	-57.35	-65.48	-37.16	1.00	1.00	0.00
5,057.69	10.58	228.78	5,051.69	-64.14	-73.23	-41.56	1.00	1.00	0.00
5,100.00	10.58	228.78	5,093.28	-69.26	-79.07	-44.88	0.00	0.00	0.00
5,200.00	10.58	228.78	5,191.59	-81.35	-92.88	-52.71	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Site: Ares 4 State
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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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	10.58	228.78	5,289.89	-93.45	-106.69	-60.55	0.00	0.00	0.00
5,400.00	10.58	228.78	5,388.19	-105.54	-120.49	-68.38	0.00	0.00	0.00
5,500.00	10.58	228.78	5,486.49	-117.64	-134.30	-76.22	0.00	0.00	0.00
5,600.00	10.58	228.78	5,584.79	-129.73	-148.11	-84.06	0.00	0.00	0.00
5,700.00	10.58	228.78	5,683.09	-141.83	-161.92	-91.89	0.00	0.00	0.00
5,800.00	10.58	228.78	5,781.39	-153.92	-175.72	-99.73	0.00	0.00	0.00
5,900.00	10.58	228.78	5,879.69	-166.01	-189.53	-107.57	0.00	0.00	0.00
6,000.00	10.58	228.78	5,977.99	-178.11	-203.34	-115.40	0.00	0.00	0.00
6,100.00	10.58	228.78	6,076.29	-190.20	-217.15	-123.24	0.00	0.00	0.00
6,200.00	10.58	228.78	6,174.59	-202.30	-230.96	-131.07	0.00	0.00	0.00
6,300.00	10.58	228.78	6,272.90	-214.39	-244.76	-138.91	0.00	0.00	0.00
6,400.00	10.58	228.78	6,371.20	-226.49	-258.57	-146.75	0.00	0.00	0.00
6,500.00	10.58	228.78	6,469.50	-238.58	-272.38	-154.58	0.00	0.00	0.00
6,600.00	10.58	228.78	6,567.80	-250.67	-286.19	-162.42	0.00	0.00	0.00
6,700.00	10.58	228.78	6,666.10	-262.77	-299.99	-170.26	0.00	0.00	0.00
6,800.00	10.58	228.78	6,764.40	-274.86	-313.80	-178.09	0.00	0.00	0.00
6,900.00	10.58	228.78	6,862.70	-286.96	-327.61	-185.93	0.00	0.00	0.00
7,000.00	10.58	228.78	6,961.00	-299.05	-341.42	-193.76	0.00	0.00	0.00
7,100.00	10.58	228.78	7,059.30	-311.15	-355.22	-201.60	0.00	0.00	0.00
7,200.00	10.58	228.78	7,157.60	-323.24	-369.03	-209.44	0.00	0.00	0.00
7,300.00	10.58	228.78	7,255.91	-335.33	-382.84	-217.27	0.00	0.00	0.00
7,400.00	10.58	228.78	7,354.21	-347.43	-396.65	-225.11	0.00	0.00	0.00
7,500.00	10.58	228.78	7,452.51	-359.52	-410.45	-232.94	0.00	0.00	0.00
7,600.00	10.58	228.78	7,550.81	-371.62	-424.26	-240.78	0.00	0.00	0.00
7,700.00	10.58	228.78	7,649.11	-383.71	-438.07	-248.62	0.00	0.00	0.00
7,800.00	10.58	228.78	7,747.41	-395.81	-451.88	-256.45	0.00	0.00	0.00
7,900.00	10.58	228.78	7,845.71	-407.90	-465.68	-264.29	0.00	0.00	0.00
8,000.00	10.58	228.78	7,944.01	-419.99	-479.49	-272.13	0.00	0.00	0.00
8,100.00	10.58	228.78	8,042.31	-432.09	-493.30	-279.96	0.00	0.00	0.00
8,200.00	10.58	228.78	8,140.61	-444.18	-507.11	-287.80	0.00	0.00	0.00
8,300.00	10.58	228.78	8,238.91	-456.28	-520.92	-295.63	0.00	0.00	0.00
8,400.00	10.58	228.78	8,337.22	-468.37	-534.72	-303.47	0.00	0.00	0.00
8,500.00	10.58	228.78	8,435.52	-480.47	-548.53	-311.31	0.00	0.00	0.00
8,600.00	10.58	228.78	8,533.82	-492.56	-562.34	-319.14	0.00	0.00	0.00
8,700.00	10.58	228.78	8,632.12	-504.65	-576.15	-326.98	0.00	0.00	0.00
8,800.00	10.58	228.78	8,730.42	-516.75	-589.95	-334.82	0.00	0.00	0.00
8,900.00	10.58	228.78	8,828.72	-528.84	-603.76	-342.65	0.00	0.00	0.00
9,000.00	10.58	228.78	8,927.02	-540.94	-617.57	-350.49	0.00	0.00	0.00
9,100.00	10.58	228.78	9,025.32	-553.03	-631.38	-358.32	0.00	0.00	0.00
9,200.00	10.58	228.78	9,123.62	-565.13	-645.18	-366.16	0.00	0.00	0.00
9,300.00	10.58	228.78	9,221.92	-577.22	-658.99	-374.00	0.00	0.00	0.00
9,400.00	10.58	228.78	9,320.23	-589.31	-672.80	-381.83	0.00	0.00	0.00
9,500.00	10.58	228.78	9,418.53	-601.41	-686.61	-389.67	0.00	0.00	0.00
9,600.00	10.58	228.78	9,516.83	-613.50	-700.41	-397.51	0.00	0.00	0.00
9,700.00	10.58	228.78	9,615.13	-625.60	-714.22	-405.34	0.00	0.00	0.00
9,800.00	10.58	228.78	9,713.43	-637.69	-728.03	-413.18	0.00	0.00	0.00
9,900.00	10.58	228.78	9,811.73	-649.79	-741.84	-421.01	0.00	0.00	0.00
10,000.00	10.58	228.78	9,910.03	-661.88	-755.64	-428.85	0.00	0.00	0.00
10,100.00	10.58	228.78	10,008.33	-673.97	-769.45	-436.69	0.00	0.00	0.00
10,200.00	10.58	228.78	10,106.63	-686.07	-783.26	-444.52	0.00	0.00	0.00
10,300.00	10.58	228.78	10,204.93	-698.16	-797.07	-452.36	0.00	0.00	0.00
10,400.00	10.58	228.78	10,303.23	-710.26	-810.88	-460.20	0.00	0.00	0.00
10,500.00	10.58	228.78	10,401.54	-722.35	-824.68	-468.03	0.00	0.00	0.00
10,600.00	10.58	228.78	10,499.84	-734.45	-838.49	-475.87	0.00	0.00	0.00



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10,700.00	10.58	228.78	10,598.14	-746.54	-852.30	-483.70	0.00	0.00	0.00
10,800.00	10.58	228.78	10,696.44	-758.63	-866.11	-491.54	0.00	0.00	0.00
10,900.00	10.58	228.78	10,794.74	-770.73	-879.91	-499.38	0.00	0.00	0.00
11,000.00	10.58	228.78	10,893.04	-782.82	-893.72	-507.21	0.00	0.00	0.00
11,100.00	10.58	228.78	10,991.34	-794.92	-907.53	-515.05	0.00	0.00	0.00
11,200.00	10.58	228.78	11,089.64	-807.01	-921.34	-522.89	0.00	0.00	0.00
11,300.00	10.58	228.78	11,187.94	-819.10	-935.14	-530.72	0.00	0.00	0.00
11,400.00	10.58	228.78	11,286.24	-831.20	-948.95	-538.56	0.00	0.00	0.00
11,500.00	10.58	228.78	11,384.55	-843.29	-962.76	-546.39	0.00	0.00	0.00
11,600.00	10.58	228.78	11,482.85	-855.39	-976.57	-554.23	0.00	0.00	0.00
11,700.00	10.58	228.78	11,581.15	-867.48	-990.37	-562.07	0.00	0.00	0.00
11,800.00	10.58	228.78	11,679.45	-879.58	-1,004.18	-569.90	0.00	0.00	0.00
11,900.00	10.58	228.78	11,777.75	-891.67	-1,017.99	-577.74	0.00	0.00	0.00
12,000.00	10.58	228.78	11,876.05	-903.76	-1,031.80	-585.58	0.00	0.00	0.00
12,100.00	10.58	228.78	11,974.35	-915.86	-1,045.60	-593.41	0.00	0.00	0.00
12,111.45	10.58	228.78	11,985.60	-917.24	-1,047.19	-594.31	0.00	0.00	0.00
12,125.00	9.61	236.24	11,998.95	-918.69	-1,049.06	-595.19	12.00	-7.17	55.03
12,150.00	8.36	253.83	12,023.65	-920.36	-1,052.54	-595.83	12.00	-4.98	70.36
12,175.00	8.09	274.84	12,048.39	-920.71	-1,056.04	-595.21	12.00	-1.09	84.02
12,200.00	8.88	294.58	12,073.13	-919.76	-1,059.55	-593.34	12.00	3.16	78.97
12,225.00	10.49	309.71	12,097.77	-917.51	-1,063.05	-590.20	12.00	6.46	60.51
12,250.00	12.62	320.33	12,122.27	-913.95	-1,066.55	-585.82	12.00	8.51	42.49
12,275.00	15.04	327.76	12,146.54	-909.10	-1,070.02	-580.21	12.00	9.69	29.72
12,300.00	17.64	333.11	12,170.53	-902.98	-1,073.46	-573.38	12.00	10.39	21.40
12,325.00	20.34	337.10	12,194.17	-895.60	-1,076.87	-565.34	12.00	10.82	15.96
12,350.00	23.12	340.18	12,217.39	-886.98	-1,080.23	-556.13	12.00	11.10	12.31
12,375.00	25.94	342.63	12,240.13	-877.14	-1,083.52	-545.76	12.00	11.29	9.78
12,400.00	28.80	344.62	12,262.33	-866.11	-1,086.75	-534.27	12.00	11.43	7.97
12,425.00	31.68	346.28	12,283.93	-853.92	-1,089.91	-521.69	12.00	11.53	6.64
12,450.00	34.58	347.69	12,304.86	-840.61	-1,092.98	-508.04	12.00	11.60	5.64
12,475.00	37.50	348.90	12,325.08	-826.21	-1,095.96	-493.38	12.00	11.65	4.86
12,500.00	40.42	349.97	12,344.51	-810.76	-1,098.83	-477.73	12.00	11.70	4.26
12,525.00	43.35	350.91	12,363.12	-794.30	-1,101.60	-461.15	12.00	11.73	3.77
12,550.00	46.29	351.76	12,380.85	-776.88	-1,104.25	-443.67	12.00	11.76	3.39
12,575.00	49.24	352.53	12,397.66	-758.54	-1,106.78	-425.34	12.00	11.78	3.07
12,600.00	52.19	353.23	12,413.48	-739.35	-1,109.18	-406.22	12.00	11.80	2.81
12,625.00	55.14	353.88	12,428.29	-719.34	-1,111.44	-386.36	12.00	11.82	2.59
12,650.00	58.10	354.48	12,442.05	-698.57	-1,113.55	-365.82	12.00	11.83	2.41
12,675.00	61.06	355.04	12,454.70	-677.10	-1,115.52	-344.63	12.00	11.84	2.26
12,700.00	64.02	355.58	12,466.23	-655.00	-1,117.33	-322.88	12.00	11.85	2.14
12,725.00	66.99	356.09	12,476.59	-632.31	-1,118.98	-300.61	12.00	11.86	2.03
12,728.60	67.41	356.16	12,477.99	-629.00	-1,119.21	-297.37	12.00	11.86	1.98
FTP (Ares 4 State #704H)									
12,750.00	69.95	356.57	12,485.77	-609.10	-1,120.47	-277.89	12.00	11.86	1.94
12,775.00	72.92	357.04	12,493.72	-585.44	-1,121.79	-254.78	12.00	11.87	1.87
12,800.00	75.89	357.49	12,500.44	-561.39	-1,122.94	-231.34	12.00	11.87	1.81
12,825.00	78.86	357.93	12,505.91	-537.02	-1,123.91	-207.63	12.00	11.88	1.77
12,850.00	81.83	358.37	12,510.10	-512.39	-1,124.71	-183.73	12.00	11.88	1.73
12,875.00	84.80	358.79	12,513.01	-487.57	-1,125.32	-159.70	12.00	11.88	1.70
12,900.00	87.77	359.21	12,514.63	-462.63	-1,125.76	-135.60	12.00	11.88	1.69
12,918.79	90.00	359.53	12,515.00	-443.85	-1,125.96	-117.48	12.00	11.88	1.68
13,000.00	90.00	359.53	12,515.00	-362.64	-1,126.63	-39.21	0.00	0.00	0.00
13,100.00	90.00	359.53	12,515.00	-262.64	-1,127.45	57.16	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: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
 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	359.53	12,515.00	-162.65	-1,128.27	153.54	0.00	0.00	0.00
13,300.00	90.00	359.53	12,515.00	-62.65	-1,129.09	249.91	0.00	0.00	0.00
13,400.00	90.00	359.53	12,515.00	37.35	-1,129.91	346.29	0.00	0.00	0.00
13,500.00	90.00	359.53	12,515.00	137.34	-1,130.73	442.66	0.00	0.00	0.00
13,600.00	90.00	359.53	12,515.00	237.34	-1,131.55	539.04	0.00	0.00	0.00
13,700.00	90.00	359.53	12,515.00	337.34	-1,132.37	635.41	0.00	0.00	0.00
13,800.00	90.00	359.53	12,515.00	437.33	-1,133.19	731.79	0.00	0.00	0.00
13,900.00	90.00	359.53	12,515.00	537.33	-1,134.01	828.16	0.00	0.00	0.00
14,000.00	90.00	359.53	12,515.00	637.33	-1,134.83	924.54	0.00	0.00	0.00
14,100.00	90.00	359.53	12,515.00	737.32	-1,135.65	1,020.91	0.00	0.00	0.00
14,200.00	90.00	359.53	12,515.00	837.32	-1,136.47	1,117.29	0.00	0.00	0.00
14,300.00	90.00	359.53	12,515.00	937.32	-1,137.29	1,213.67	0.00	0.00	0.00
14,400.00	90.00	359.53	12,515.00	1,037.31	-1,138.11	1,310.04	0.00	0.00	0.00
14,500.00	90.00	359.53	12,515.00	1,137.31	-1,138.93	1,406.42	0.00	0.00	0.00
14,600.00	90.00	359.53	12,515.00	1,237.31	-1,139.75	1,502.79	0.00	0.00	0.00
14,700.00	90.00	359.53	12,515.00	1,337.30	-1,140.57	1,599.17	0.00	0.00	0.00
14,800.00	90.00	359.53	12,515.00	1,437.30	-1,141.40	1,695.54	0.00	0.00	0.00
14,900.00	90.00	359.53	12,515.00	1,537.30	-1,142.22	1,791.92	0.00	0.00	0.00
15,000.00	90.00	359.53	12,515.00	1,637.29	-1,143.04	1,888.29	0.00	0.00	0.00
15,100.00	90.00	359.53	12,515.00	1,737.29	-1,143.86	1,984.67	0.00	0.00	0.00
15,200.00	90.00	359.53	12,515.00	1,837.29	-1,144.68	2,081.04	0.00	0.00	0.00
15,300.00	90.00	359.53	12,515.00	1,937.28	-1,145.50	2,177.42	0.00	0.00	0.00
15,400.00	90.00	359.53	12,515.00	2,037.28	-1,146.32	2,273.79	0.00	0.00	0.00
15,500.00	90.00	359.53	12,515.00	2,137.28	-1,147.14	2,370.17	0.00	0.00	0.00
15,600.00	90.00	359.53	12,515.00	2,237.27	-1,147.96	2,466.54	0.00	0.00	0.00
15,700.00	90.00	359.53	12,515.00	2,337.27	-1,148.78	2,562.92	0.00	0.00	0.00
15,800.00	90.00	359.53	12,515.00	2,437.27	-1,149.60	2,659.30	0.00	0.00	0.00
15,900.00	90.00	359.53	12,515.00	2,537.26	-1,150.42	2,755.67	0.00	0.00	0.00
16,000.00	90.00	359.53	12,515.00	2,637.26	-1,151.24	2,852.05	0.00	0.00	0.00
16,100.00	90.00	359.53	12,515.00	2,737.26	-1,152.06	2,948.42	0.00	0.00	0.00
16,200.00	90.00	359.53	12,515.00	2,837.25	-1,152.88	3,044.80	0.00	0.00	0.00
16,300.00	90.00	359.53	12,515.00	2,937.25	-1,153.70	3,141.17	0.00	0.00	0.00
16,400.00	90.00	359.53	12,515.00	3,037.25	-1,154.52	3,237.55	0.00	0.00	0.00
16,500.00	90.00	359.53	12,515.00	3,137.24	-1,155.34	3,333.92	0.00	0.00	0.00
16,600.00	90.00	359.53	12,515.00	3,237.24	-1,156.16	3,430.30	0.00	0.00	0.00
16,700.00	90.00	359.53	12,515.00	3,337.24	-1,156.98	3,526.67	0.00	0.00	0.00
16,800.00	90.00	359.53	12,515.00	3,437.23	-1,157.80	3,623.05	0.00	0.00	0.00
16,900.00	90.00	359.53	12,515.00	3,537.23	-1,158.62	3,719.42	0.00	0.00	0.00
17,000.00	90.00	359.53	12,515.00	3,637.23	-1,159.44	3,815.80	0.00	0.00	0.00
17,100.00	90.00	359.53	12,515.00	3,737.22	-1,160.26	3,912.18	0.00	0.00	0.00
17,200.00	90.00	359.53	12,515.00	3,837.22	-1,161.08	4,008.55	0.00	0.00	0.00
17,300.00	90.00	359.53	12,515.00	3,937.22	-1,161.90	4,104.93	0.00	0.00	0.00
17,400.00	90.00	359.53	12,515.00	4,037.21	-1,162.72	4,201.30	0.00	0.00	0.00
17,433.79	90.00	359.53	12,515.00	4,071.00	-1,163.00	4,233.86	0.00	0.00	0.00

PBHL (Ares 4 State #704H)



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: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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 #704H) - plan misses target center by 40.35usft at 12728.60usft MD (12477.99 TVD, -629.00 N, -1119.21 E) - Point	0.00	0.00	12,515.00	-644.00	-1,125.00	451,985.00	775,432.00	32.24031421	-103.57618879
PBHL (Ares 4 State #704H) - plan hits target center - Point	0.00	0.00	12,515.00	4,071.00	-1,163.00	456,700.00	775,394.00	32.25327486	-103.57620416