



Lea County, NM (NAD 83 NME)

Ares 4 State #701H

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: #701H

Ground Level: 3583.00
KB = 25 @ 3608.00alt
Northing 451993.00 Easting 777378.00 Latitude 32.24029834 Longitude -103.56989503



Azimuths to Grid North
True North: 0.41°
Magnetic North: 8.86°

Magnetic Field
Strength: 47955.3nT
Dip Angle: 60.08°
Date: 5/16/2017
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 8.86°
To convert a Magnetic Direction to a True Direction, Add 0.41° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

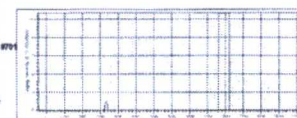
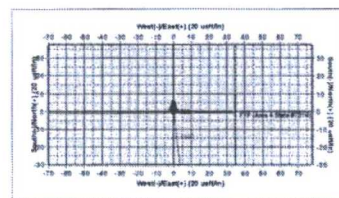
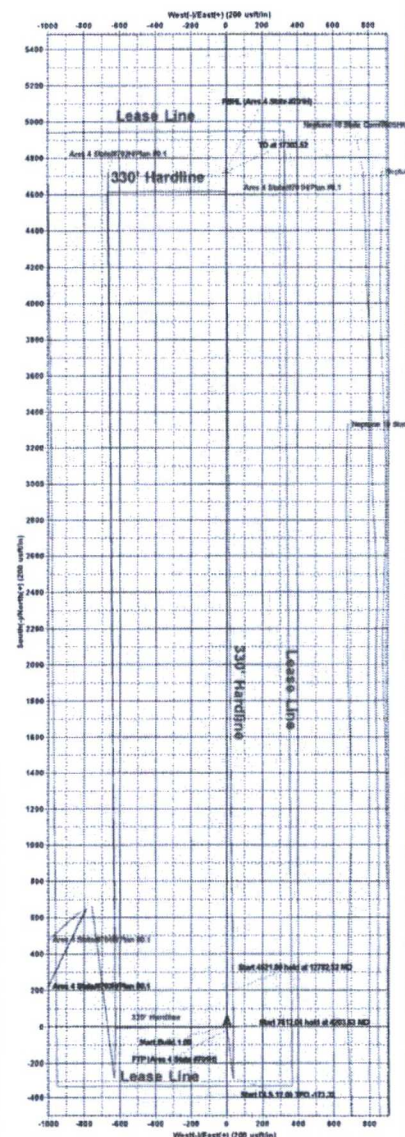
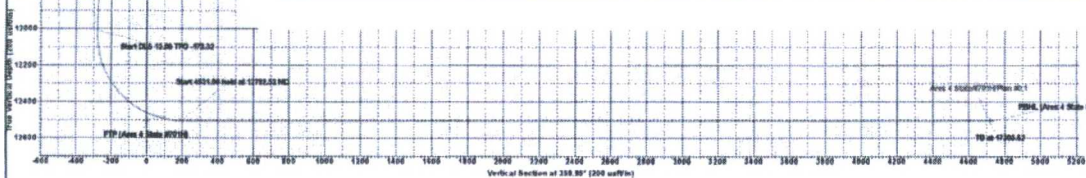
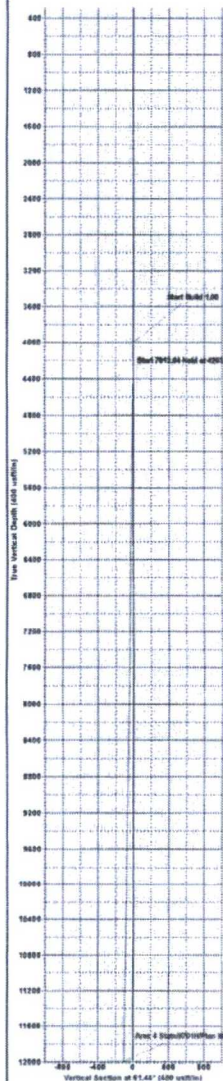
Sec	MD	Inc	Act	TVD	+N-S	+E-W	Dleg	TFace	VSeet	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00		
3	4203.63	2.04	172.88	4203.58	-3.99	0.45	1.00	172.88	-3.69		
4	12015.66	2.04	172.88	12015.69	-279.02	34.98	0.00	0.00	-279.06		
5	12782.82	90.00	389.53	12905.00	198.16	33.08	12.00	-173.32	198.12		
6	17303.82	90.00	389.53	12905.00	4718.00	-4.90	0.00	0.00	4718.00		PSHL (Ares 4 State #701H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PSHL (Ares 4 State #701H)	12905.00	4718.00	-4.00	451993.00	777378.00
FTP (Ares 4 State #701H)	12905.00	0.00	38.00	451993.00	777415.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ares 4 State

#701H

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: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3608.00usft
MD Reference: KB = 25' @ 3608.00usft
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
From:	Map	Easting:	777,413.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.24029765
		Longitude:	-103.56978184
		Grid Convergence:	0.41 °

Well	#701H		
Well Position	+N/-S	0.00 usft	Northing: 451,993.00 usft
	+E/-W	-35.00 usft	Easting: 777,378.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32.24029833
			Longitude: -103.56989503
			Ground Level: 3,583.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	5/18/2017	(°)
			6.96
			Dip Angle
			(°)
			60.08
			Field Strength
			(nT)
			47,955.33132544

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.95

Plan Survey Tool Program	Date	5/19/2017		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.00	17,303.52 Plan #0.1 (OH)	MWD	
			MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
4,203.63	2.04	172.86	4,203.58	-3.59	0.45	1.00	1.00	0.00	172.86	
12,015.67	2.04	172.86	12,010.69	-279.02	34.96	0.00	0.00	0.00	0.00	
12,782.52	90.00	359.53	12,505.00	198.15	33.09	12.00	11.47	-22.60	-173.32	
17,303.52	90.00	359.53	12,505.00	4,719.00	-4.00	0.00	0.00	0.00	0.00	PBHL (Ares 4 State #



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 TVD Reference: KB = 25' @ 3608.00usft
 MD Reference: KB = 25' @ 3608.00usft
 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	172.86	4,100.00	-0.87	0.11	-0.87	1.00	1.00	0.00
4,203.63	2.04	172.86	4,203.58	-3.59	0.45	-3.59	1.00	1.00	0.00
4,300.00	2.04	172.86	4,299.90	-6.99	0.88	-6.99	0.00	0.00	0.00
4,400.00	2.04	172.86	4,399.83	-10.51	1.32	-10.51	0.00	0.00	0.00
4,500.00	2.04	172.86	4,499.77	-14.04	1.76	-14.04	0.00	0.00	0.00
4,600.00	2.04	172.86	4,599.71	-17.56	2.20	-17.57	0.00	0.00	0.00
4,700.00	2.04	172.86	4,699.64	-21.09	2.64	-21.09	0.00	0.00	0.00
4,800.00	2.04	172.86	4,799.58	-24.62	3.08	-24.62	0.00	0.00	0.00
4,900.00	2.04	172.86	4,899.52	-28.14	3.53	-28.14	0.00	0.00	0.00
5,000.00	2.04	172.86	4,999.45	-31.67	3.97	-31.67	0.00	0.00	0.00
5,100.00	2.04	172.86	5,099.39	-35.19	4.41	-35.20	0.00	0.00	0.00
5,200.00	2.04	172.86	5,199.33	-38.72	4.85	-38.72	0.00	0.00	0.00
5,300.00	2.04	172.86	5,299.26	-42.24	5.29	-42.25	0.00	0.00	0.00



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Design: Plan #0.1

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MD Reference: KB = 25' @ 3608.00usft
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)
5,400.00	2.04	172.86	5,399.20	-45.77	5.73	-45.77	0.00	0.00	0.00
5,500.00	2.04	172.86	5,499.14	-49.30	6.18	-49.30	0.00	0.00	0.00
5,600.00	2.04	172.86	5,599.08	-52.82	6.62	-52.83	0.00	0.00	0.00
5,700.00	2.04	172.86	5,699.01	-56.35	7.06	-56.35	0.00	0.00	0.00
5,800.00	2.04	172.86	5,798.95	-59.87	7.50	-59.88	0.00	0.00	0.00
5,900.00	2.04	172.86	5,898.89	-63.40	7.94	-63.41	0.00	0.00	0.00
6,000.00	2.04	172.86	5,998.82	-66.92	8.38	-66.93	0.00	0.00	0.00
6,100.00	2.04	172.86	6,098.76	-70.45	8.83	-70.46	0.00	0.00	0.00
6,200.00	2.04	172.86	6,198.70	-73.98	9.27	-73.98	0.00	0.00	0.00
6,300.00	2.04	172.86	6,298.63	-77.50	9.71	-77.51	0.00	0.00	0.00
6,400.00	2.04	172.86	6,398.57	-81.03	10.15	-81.04	0.00	0.00	0.00
6,500.00	2.04	172.86	6,498.51	-84.55	10.59	-84.56	0.00	0.00	0.00
6,600.00	2.04	172.86	6,598.44	-88.08	11.04	-88.09	0.00	0.00	0.00
6,700.00	2.04	172.86	6,698.38	-91.60	11.48	-91.61	0.00	0.00	0.00
6,800.00	2.04	172.86	6,798.32	-95.13	11.92	-95.14	0.00	0.00	0.00
6,900.00	2.04	172.86	6,898.25	-98.65	12.36	-98.67	0.00	0.00	0.00
7,000.00	2.04	172.86	6,998.19	-102.18	12.80	-102.19	0.00	0.00	0.00
7,100.00	2.04	172.86	7,098.13	-105.71	13.24	-105.72	0.00	0.00	0.00
7,200.00	2.04	172.86	7,198.07	-109.23	13.69	-109.24	0.00	0.00	0.00
7,300.00	2.04	172.86	7,298.00	-112.76	14.13	-112.77	0.00	0.00	0.00
7,400.00	2.04	172.86	7,397.94	-116.28	14.57	-116.30	0.00	0.00	0.00
7,500.00	2.04	172.86	7,497.88	-119.81	15.01	-119.82	0.00	0.00	0.00
7,600.00	2.04	172.86	7,597.81	-123.33	15.45	-123.35	0.00	0.00	0.00
7,700.00	2.04	172.86	7,697.75	-126.86	15.89	-126.87	0.00	0.00	0.00
7,800.00	2.04	172.86	7,797.69	-130.39	16.34	-130.40	0.00	0.00	0.00
7,900.00	2.04	172.86	7,897.62	-133.91	16.78	-133.93	0.00	0.00	0.00
8,000.00	2.04	172.86	7,997.56	-137.44	17.22	-137.45	0.00	0.00	0.00
8,100.00	2.04	172.86	8,097.50	-140.96	17.66	-140.98	0.00	0.00	0.00
8,200.00	2.04	172.86	8,197.43	-144.49	18.10	-144.50	0.00	0.00	0.00
8,300.00	2.04	172.86	8,297.37	-148.01	18.54	-148.03	0.00	0.00	0.00
8,400.00	2.04	172.86	8,397.31	-151.54	18.99	-151.56	0.00	0.00	0.00
8,500.00	2.04	172.86	8,497.24	-155.07	19.43	-155.08	0.00	0.00	0.00
8,600.00	2.04	172.86	8,597.18	-158.59	19.87	-158.61	0.00	0.00	0.00
8,700.00	2.04	172.86	8,697.12	-162.12	20.31	-162.13	0.00	0.00	0.00
8,800.00	2.04	172.86	8,797.05	-165.64	20.75	-165.66	0.00	0.00	0.00
8,900.00	2.04	172.86	8,896.99	-169.17	21.20	-169.19	0.00	0.00	0.00
9,000.00	2.04	172.86	8,996.93	-172.69	21.64	-172.71	0.00	0.00	0.00
9,100.00	2.04	172.86	9,096.87	-176.22	22.08	-176.24	0.00	0.00	0.00
9,200.00	2.04	172.86	9,196.80	-179.75	22.52	-179.76	0.00	0.00	0.00
9,300.00	2.04	172.86	9,296.74	-183.27	22.96	-183.29	0.00	0.00	0.00
9,400.00	2.04	172.86	9,396.68	-186.80	23.40	-186.82	0.00	0.00	0.00
9,500.00	2.04	172.86	9,496.61	-190.32	23.85	-190.34	0.00	0.00	0.00
9,600.00	2.04	172.86	9,596.55	-193.85	24.29	-193.87	0.00	0.00	0.00
9,700.00	2.04	172.86	9,696.49	-197.37	24.73	-197.39	0.00	0.00	0.00
9,800.00	2.04	172.86	9,796.42	-200.90	25.17	-200.92	0.00	0.00	0.00
9,900.00	2.04	172.86	9,896.36	-204.42	25.61	-204.45	0.00	0.00	0.00
10,000.00	2.04	172.86	9,996.30	-207.95	26.05	-207.97	0.00	0.00	0.00
10,100.00	2.04	172.86	10,096.23	-211.48	26.50	-211.50	0.00	0.00	0.00
10,200.00	2.04	172.86	10,196.17	-215.00	26.94	-215.02	0.00	0.00	0.00
10,300.00	2.04	172.86	10,296.11	-218.53	27.38	-218.55	0.00	0.00	0.00
10,400.00	2.04	172.86	10,396.04	-222.05	27.82	-222.08	0.00	0.00	0.00
10,500.00	2.04	172.86	10,495.98	-225.58	28.26	-225.60	0.00	0.00	0.00
10,600.00	2.04	172.86	10,595.92	-229.10	28.70	-229.13	0.00	0.00	0.00
10,700.00	2.04	172.86	10,695.86	-232.63	29.15	-232.65	0.00	0.00	0.00



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10,800.00	2.04	172.86	10,795.79	-236.16	29.59	-236.18	0.00	0.00	0.00
10,900.00	2.04	172.86	10,895.73	-239.68	30.03	-239.71	0.00	0.00	0.00
11,000.00	2.04	172.86	10,995.67	-243.21	30.47	-243.23	0.00	0.00	0.00
11,100.00	2.04	172.86	11,095.60	-246.73	30.91	-246.76	0.00	0.00	0.00
11,200.00	2.04	172.86	11,195.54	-250.26	31.35	-250.28	0.00	0.00	0.00
11,300.00	2.04	172.86	11,295.48	-253.78	31.80	-253.81	0.00	0.00	0.00
11,400.00	2.04	172.86	11,395.41	-257.31	32.24	-257.34	0.00	0.00	0.00
11,500.00	2.04	172.86	11,495.35	-260.84	32.68	-260.86	0.00	0.00	0.00
11,600.00	2.04	172.86	11,595.29	-264.36	33.12	-264.39	0.00	0.00	0.00
11,700.00	2.04	172.86	11,695.22	-267.89	33.56	-267.92	0.00	0.00	0.00
11,800.00	2.04	172.86	11,795.16	-271.41	34.01	-271.44	0.00	0.00	0.00
11,900.00	2.04	172.86	11,895.10	-274.94	34.45	-274.97	0.00	0.00	0.00
12,000.00	2.04	172.86	11,995.03	-278.46	34.89	-278.49	0.00	0.00	0.00
12,015.67	2.04	172.86	12,010.69	-279.02	34.96	-279.05	0.00	0.00	0.00
12,025.00	0.93	164.83	12,020.02	-279.25	35.00	-279.28	12.00	-11.82	-85.96
12,050.00	2.11	5.96	12,045.02	-278.99	35.10	-279.02	12.00	4.71	-635.48
12,075.00	5.10	2.18	12,069.96	-277.42	35.19	-277.45	12.00	11.97	-15.13
12,100.00	8.10	1.19	12,094.80	-274.55	35.27	-274.58	12.00	11.99	-3.95
12,125.00	11.10	0.74	12,119.44	-270.38	35.34	-270.41	12.00	12.00	-1.83
12,150.00	14.10	0.47	12,143.84	-264.93	35.39	-264.96	12.00	12.00	-1.06
12,175.00	17.10	0.30	12,167.91	-258.21	35.44	-258.24	12.00	12.00	-0.69
12,200.00	20.10	0.18	12,191.61	-250.23	35.47	-250.26	12.00	12.00	-0.49
12,225.00	23.10	0.08	12,214.85	-241.03	35.49	-241.06	12.00	12.00	-0.37
12,250.00	26.10	0.01	12,237.58	-230.63	35.50	-230.66	12.00	12.00	-0.29
12,275.00	29.10	359.96	12,259.73	-219.05	35.49	-219.08	12.00	12.00	-0.23
12,300.00	32.10	359.91	12,281.25	-206.32	35.48	-206.35	12.00	12.00	-0.19
12,325.00	35.10	359.87	12,302.07	-192.49	35.45	-192.52	12.00	12.00	-0.16
12,350.00	38.10	359.83	12,322.14	-177.59	35.41	-177.62	12.00	12.00	-0.14
12,375.00	41.10	359.80	12,341.40	-161.65	35.36	-161.68	12.00	12.00	-0.12
12,400.00	44.10	359.77	12,359.80	-144.73	35.30	-144.76	12.00	12.00	-0.11
12,425.00	47.10	359.75	12,377.29	-126.88	35.22	-126.91	12.00	12.00	-0.10
12,450.00	50.10	359.73	12,393.82	-108.13	35.14	-108.16	12.00	12.00	-0.09
12,475.00	53.10	359.71	12,409.35	-88.54	35.04	-88.57	12.00	12.00	-0.08
12,500.00	56.10	359.69	12,423.83	-68.16	34.93	-68.19	12.00	12.00	-0.07
12,525.00	59.10	359.67	12,437.22	-47.06	34.82	-47.09	12.00	12.00	-0.07
12,550.00	62.10	359.66	12,449.49	-25.28	34.69	-25.31	12.00	12.00	-0.07
12,575.00	65.10	359.64	12,460.61	-2.89	34.55	-2.92	12.00	12.00	-0.06
12,595.28	67.53	359.63	12,468.76	15.68	34.43	15.65	12.00	12.00	-0.06
FTP (Ares 4 State #701H)									
12,600.00	68.10	359.63	12,470.54	20.05	34.40	20.02	12.00	12.00	-0.06
12,625.00	71.10	359.61	12,479.25	43.48	34.25	43.45	12.00	12.00	-0.06
12,650.00	74.10	359.60	12,486.73	67.33	34.08	67.30	12.00	12.00	-0.05
12,675.00	77.10	359.58	12,492.95	91.54	33.91	91.51	12.00	12.00	-0.05
12,700.00	80.10	359.57	12,497.89	116.05	33.73	116.02	12.00	12.00	-0.05
12,725.00	83.10	359.56	12,501.54	140.77	33.54	140.75	12.00	12.00	-0.05
12,750.00	86.10	359.55	12,503.89	165.66	33.35	165.63	12.00	12.00	-0.05
12,775.00	89.10	359.53	12,504.94	190.63	33.15	190.61	12.00	12.00	-0.05
12,782.52	90.00	359.53	12,505.00	198.15	33.09	198.12	12.00	12.00	-0.05
12,800.00	90.00	359.53	12,505.00	215.63	32.94	215.60	0.00	0.00	0.00
12,900.00	90.00	359.53	12,505.00	315.63	32.12	315.60	0.00	0.00	0.00
13,000.00	90.00	359.53	12,505.00	415.63	31.30	415.60	0.00	0.00	0.00
13,100.00	90.00	359.53	12,505.00	515.62	30.48	515.60	0.00	0.00	0.00
13,200.00	90.00	359.53	12,505.00	615.62	29.66	615.59	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: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3608.00usft
MD Reference: KB = 25' @ 3608.00usft
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)
13,300.00	90.00	359.53	12,505.00	715.62	28.84	715.59	0.00	0.00	0.00
13,400.00	90.00	359.53	12,505.00	815.61	28.02	815.59	0.00	0.00	0.00
13,500.00	90.00	359.53	12,505.00	915.61	27.20	915.59	0.00	0.00	0.00
13,600.00	90.00	359.53	12,505.00	1,015.61	26.38	1,015.58	0.00	0.00	0.00
13,700.00	90.00	359.53	12,505.00	1,115.60	25.56	1,115.58	0.00	0.00	0.00
13,800.00	90.00	359.53	12,505.00	1,215.60	24.74	1,215.58	0.00	0.00	0.00
13,900.00	90.00	359.53	12,505.00	1,315.60	23.92	1,315.57	0.00	0.00	0.00
14,000.00	90.00	359.53	12,505.00	1,415.59	23.10	1,415.57	0.00	0.00	0.00
14,100.00	90.00	359.53	12,505.00	1,515.59	22.28	1,515.57	0.00	0.00	0.00
14,200.00	90.00	359.53	12,505.00	1,615.59	21.46	1,615.57	0.00	0.00	0.00
14,300.00	90.00	359.53	12,505.00	1,715.58	20.64	1,715.56	0.00	0.00	0.00
14,400.00	90.00	359.53	12,505.00	1,815.58	19.82	1,815.56	0.00	0.00	0.00
14,500.00	90.00	359.53	12,505.00	1,915.58	19.00	1,915.56	0.00	0.00	0.00
14,600.00	90.00	359.53	12,505.00	2,015.57	18.18	2,015.56	0.00	0.00	0.00
14,700.00	90.00	359.53	12,505.00	2,115.57	17.36	2,115.55	0.00	0.00	0.00
14,800.00	90.00	359.53	12,505.00	2,215.57	16.54	2,215.55	0.00	0.00	0.00
14,900.00	90.00	359.53	12,505.00	2,315.56	15.72	2,315.55	0.00	0.00	0.00
15,000.00	90.00	359.53	12,505.00	2,415.56	14.90	2,415.55	0.00	0.00	0.00
15,100.00	90.00	359.53	12,505.00	2,515.56	14.08	2,515.54	0.00	0.00	0.00
15,200.00	90.00	359.53	12,505.00	2,615.55	13.26	2,615.54	0.00	0.00	0.00
15,300.00	90.00	359.53	12,505.00	2,715.55	12.43	2,715.54	0.00	0.00	0.00
15,400.00	90.00	359.53	12,505.00	2,815.55	11.61	2,815.53	0.00	0.00	0.00
15,500.00	90.00	359.53	12,505.00	2,915.54	10.79	2,915.53	0.00	0.00	0.00
15,600.00	90.00	359.53	12,505.00	3,015.54	9.97	3,015.53	0.00	0.00	0.00
15,700.00	90.00	359.53	12,505.00	3,115.54	9.15	3,115.53	0.00	0.00	0.00
15,800.00	90.00	359.53	12,505.00	3,215.53	8.33	3,215.52	0.00	0.00	0.00
15,900.00	90.00	359.53	12,505.00	3,315.53	7.51	3,315.52	0.00	0.00	0.00
16,000.00	90.00	359.53	12,505.00	3,415.53	6.69	3,415.52	0.00	0.00	0.00
16,100.00	90.00	359.53	12,505.00	3,515.52	5.87	3,515.52	0.00	0.00	0.00
16,200.00	90.00	359.53	12,505.00	3,615.52	5.05	3,615.51	0.00	0.00	0.00
16,300.00	90.00	359.53	12,505.00	3,715.52	4.23	3,715.51	0.00	0.00	0.00
16,400.00	90.00	359.53	12,505.00	3,815.51	3.41	3,815.51	0.00	0.00	0.00
16,500.00	90.00	359.53	12,505.00	3,915.51	2.59	3,915.50	0.00	0.00	0.00
16,600.00	90.00	359.53	12,505.00	4,015.50	1.77	4,015.50	0.00	0.00	0.00
16,700.00	90.00	359.53	12,505.00	4,115.50	0.95	4,115.50	0.00	0.00	0.00
16,800.00	90.00	359.53	12,505.00	4,215.50	0.13	4,215.50	0.00	0.00	0.00
16,900.00	90.00	359.53	12,505.00	4,315.49	-0.69	4,315.49	0.00	0.00	0.00
17,000.00	90.00	359.53	12,505.00	4,415.49	-1.51	4,415.49	0.00	0.00	0.00
17,100.00	90.00	359.53	12,505.00	4,515.49	-2.33	4,515.49	0.00	0.00	0.00
17,200.00	90.00	359.53	12,505.00	4,615.48	-3.15	4,615.49	0.00	0.00	0.00
17,303.52	90.00	359.53	12,505.00	4,719.00	-4.00	4,719.00	0.00	0.00	0.00

PBHL (Ares 4 State #701H)



EOG Resources, Inc.

Planning Report

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Project: Lea County, NM (NAD 83 NME)
Site: Ares 4 State
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3608.00usft
MD Reference: KB = 25' @ 3608.00usft
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 #701H) - plan misses target center by 39.50usft at 12595.28usft MD (12468.76 TVD, 15.68 N, 34.43 E) - Point	0.00	0.00	12,505.00	0.00	35.00	451,993.00	777,413.00	32.24029765	-103.56978184
PBHL (Ares 4 State #70) - plan hits target center - Point	0.00	0.00	12,505.00	4,719.00	-4.00	456,712.00	777,374.00	32.25326930	-103.56979944