



Lea County, NM (NAD 83 NME)

Ares 4 State #702H

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: #702H

Ground Level: 3585.00
KB = 25' @ 3610.00usft
Northing: 452656.00
Easting: 776821.00
Longitude: -103.57232806



Azimuths to Grid North
True North: -0.41°
Magnetic North: 5.58°

Magnetic Field
Strength: 47955.5anT
Dip Angle: 93.08°
Date: 8/19/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction Add 5.58°
To convert a Magnetic Direction to a True Direction Add 6.99° East
To convert a True Direction to a Grid Direction Subtract 0.41°

SECTION DETAILS

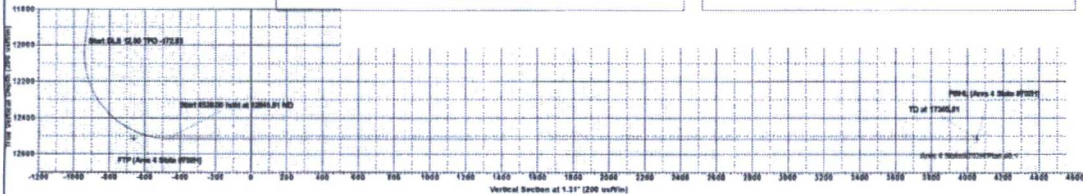
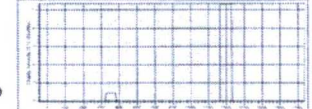
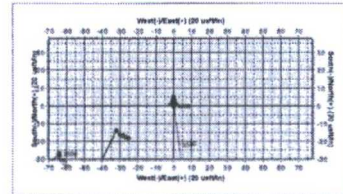
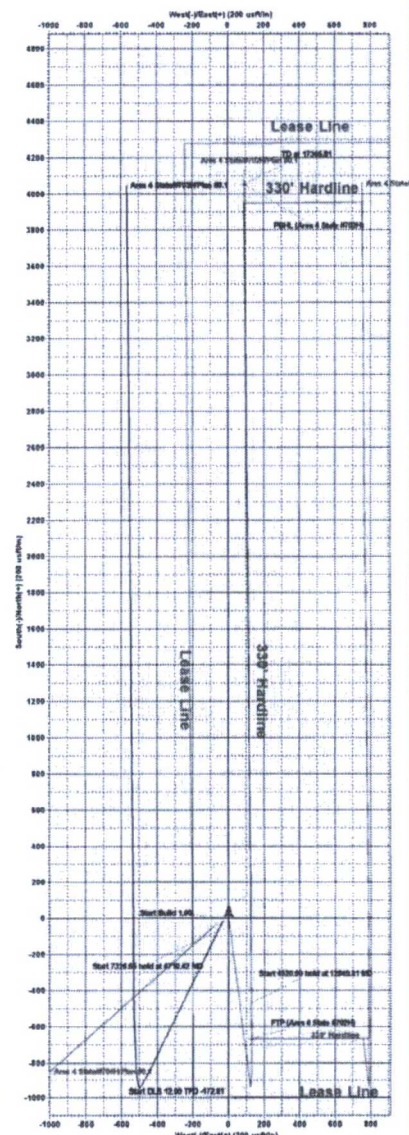
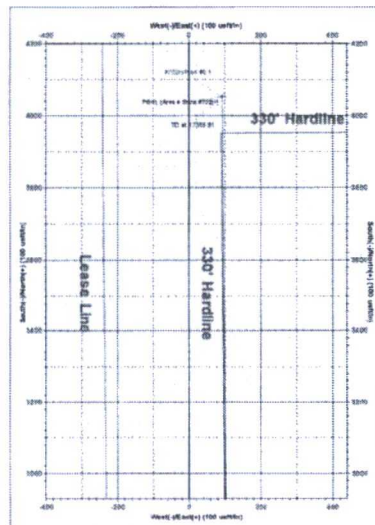
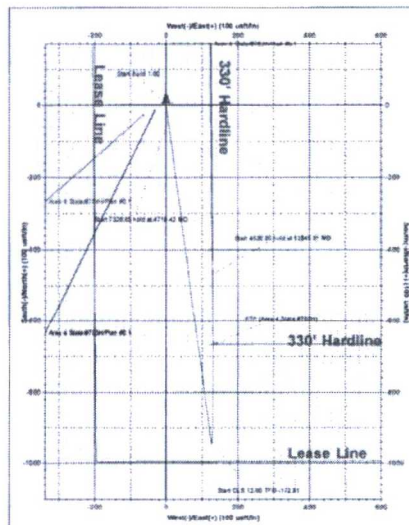
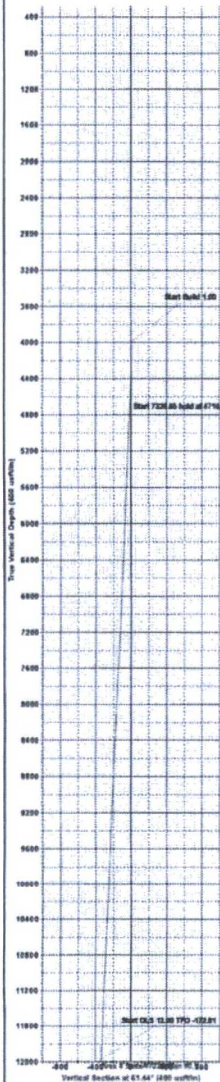
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dlog	TFace	Vsect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00		
3	4710.42	7.10	172.40	4780.80	-43.50	5.82	1.00	172.40	-43.48		
4	12037.07	7.10	173.40	11979.01	-641.76	126.67	0.00	0.00	-338.62		
5	12845.81	80.00	359.53	12515.00	-487.85	130.08	12.00	-172.81	-464.74		
6	17369.81	80.00	359.53	12515.00	4052.00	93.00	0.00	0.00	4053.07	PBH, (Ares 4 State #702H)	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBH, (Ares 4 State #702H)	12515.00	4052.00	93.00	456708.00	776714.00
FTP (Ares 4 State #702H)	12515.00	-466.00	132.00	461990.00	776783.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ares 4 State

#702H

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: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3610.00usft
MD Reference: KB = 25' @ 3610.00usft
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	#702H			
Well Position	+N/-S	663.00 usft	Northing:	452,656.00 usft
	+E/-W	-792.00 usft	Easting:	776,621.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level: 3,585.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/19/2017	6.96	60.08	47,955.87085626

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	1.31

Plan Survey Tool Program	Date 5/19/2017			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.00	17,365.81	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	
4,710.42	7.10	172.40	4,708.60	-43.60	5.82	1.00	1.00	0.00	172.40	
12,037.07	7.10	172.40	11,979.01	-941.76	125.67	0.00	0.00	0.00	0.00	
12,845.81	90.00	359.53	12,515.00	-467.85	130.08	12.00	10.25	-21.38	-172.81	
17,365.81	90.00	359.53	12,515.00	4,052.00	93.00	0.00	0.00	0.00	0.00	PBHL (Ares 4 State #



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: #702H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25' @ 3610.00usft
 MD Reference: KB = 25' @ 3610.00usft
 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	172.40	4,100.00	-0.86	0.12	-0.86	1.00	1.00	0.00
4,200.00	2.00	172.40	4,199.96	-3.46	0.46	-3.45	1.00	1.00	0.00
4,300.00	3.00	172.40	4,299.86	-7.78	1.04	-7.76	1.00	1.00	0.00
4,400.00	4.00	172.40	4,399.68	-13.83	1.85	-13.79	1.00	1.00	0.00
4,500.00	5.00	172.40	4,499.37	-21.61	2.88	-21.54	1.00	1.00	0.00
4,600.00	6.00	172.40	4,598.90	-31.11	4.15	-31.01	1.00	1.00	0.00
4,700.00	7.00	172.40	4,698.26	-42.33	5.65	-42.19	1.00	1.00	0.00
4,710.42	7.10	172.40	4,708.60	-43.60	5.82	-43.46	1.00	1.00	0.00
4,800.00	7.10	172.40	4,797.49	-54.58	7.28	-54.40	0.00	0.00	0.00
4,900.00	7.10	172.40	4,896.73	-66.84	8.92	-66.62	0.00	0.00	0.00
5,000.00	7.10	172.40	4,995.96	-79.10	10.56	-78.84	0.00	0.00	0.00
5,100.00	7.10	172.40	5,095.19	-91.36	12.19	-91.05	0.00	0.00	0.00
5,200.00	7.10	172.40	5,194.42	-103.62	13.83	-103.27	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: #702H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25' @ 3610.00usft
 MD Reference: KB = 25' @ 3610.00usft
 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	7.10	172.40	5,293.65	-115.88	15.46	-115.49	0.00	0.00	0.00
5,400.00	7.10	172.40	5,392.89	-128.13	17.10	-127.71	0.00	0.00	0.00
5,500.00	7.10	172.40	5,492.12	-140.39	18.73	-139.93	0.00	0.00	0.00
5,600.00	7.10	172.40	5,591.35	-152.65	20.37	-152.14	0.00	0.00	0.00
5,700.00	7.10	172.40	5,690.58	-164.91	22.01	-164.36	0.00	0.00	0.00
5,800.00	7.10	172.40	5,789.82	-177.17	23.64	-176.58	0.00	0.00	0.00
5,900.00	7.10	172.40	5,889.05	-189.43	25.28	-188.80	0.00	0.00	0.00
6,000.00	7.10	172.40	5,988.28	-201.69	26.91	-201.02	0.00	0.00	0.00
6,100.00	7.10	172.40	6,087.51	-213.95	28.55	-213.23	0.00	0.00	0.00
6,200.00	7.10	172.40	6,186.75	-226.20	30.19	-225.45	0.00	0.00	0.00
6,300.00	7.10	172.40	6,285.98	-238.46	31.82	-237.67	0.00	0.00	0.00
6,400.00	7.10	172.40	6,385.21	-250.72	33.46	-249.89	0.00	0.00	0.00
6,500.00	7.10	172.40	6,484.44	-262.98	35.09	-262.11	0.00	0.00	0.00
6,600.00	7.10	172.40	6,583.67	-275.24	36.73	-274.32	0.00	0.00	0.00
6,700.00	7.10	172.40	6,682.91	-287.50	38.36	-286.54	0.00	0.00	0.00
6,800.00	7.10	172.40	6,782.14	-299.76	40.00	-298.76	0.00	0.00	0.00
6,900.00	7.10	172.40	6,881.37	-312.02	41.64	-310.98	0.00	0.00	0.00
7,000.00	7.10	172.40	6,980.60	-324.27	43.27	-323.20	0.00	0.00	0.00
7,100.00	7.10	172.40	7,079.84	-336.53	44.91	-335.41	0.00	0.00	0.00
7,200.00	7.10	172.40	7,179.07	-348.79	46.54	-347.63	0.00	0.00	0.00
7,300.00	7.10	172.40	7,278.30	-361.05	48.18	-359.85	0.00	0.00	0.00
7,400.00	7.10	172.40	7,377.53	-373.31	49.82	-372.07	0.00	0.00	0.00
7,500.00	7.10	172.40	7,476.77	-385.57	51.45	-384.29	0.00	0.00	0.00
7,600.00	7.10	172.40	7,576.00	-397.83	53.09	-396.50	0.00	0.00	0.00
7,700.00	7.10	172.40	7,675.23	-410.09	54.72	-408.72	0.00	0.00	0.00
7,800.00	7.10	172.40	7,774.46	-422.34	56.36	-420.94	0.00	0.00	0.00
7,900.00	7.10	172.40	7,873.69	-434.60	58.00	-433.16	0.00	0.00	0.00
8,000.00	7.10	172.40	7,972.93	-446.86	59.63	-445.38	0.00	0.00	0.00
8,100.00	7.10	172.40	8,072.16	-459.12	61.27	-457.59	0.00	0.00	0.00
8,200.00	7.10	172.40	8,171.39	-471.38	62.90	-469.81	0.00	0.00	0.00
8,300.00	7.10	172.40	8,270.62	-483.64	64.54	-482.03	0.00	0.00	0.00
8,400.00	7.10	172.40	8,369.86	-495.90	66.17	-494.25	0.00	0.00	0.00
8,500.00	7.10	172.40	8,469.09	-508.16	67.81	-506.47	0.00	0.00	0.00
8,600.00	7.10	172.40	8,568.32	-520.41	69.45	-518.68	0.00	0.00	0.00
8,700.00	7.10	172.40	8,667.55	-532.67	71.08	-530.90	0.00	0.00	0.00
8,800.00	7.10	172.40	8,766.79	-544.93	72.72	-543.12	0.00	0.00	0.00
8,900.00	7.10	172.40	8,866.02	-557.19	74.35	-555.34	0.00	0.00	0.00
9,000.00	7.10	172.40	8,965.25	-569.45	75.99	-567.56	0.00	0.00	0.00
9,100.00	7.10	172.40	9,064.48	-581.71	77.63	-579.77	0.00	0.00	0.00
9,200.00	7.10	172.40	9,163.71	-593.97	79.26	-591.99	0.00	0.00	0.00
9,300.00	7.10	172.40	9,262.95	-606.23	80.90	-604.21	0.00	0.00	0.00
9,400.00	7.10	172.40	9,362.18	-618.48	82.53	-616.43	0.00	0.00	0.00
9,500.00	7.10	172.40	9,461.41	-630.74	84.17	-628.65	0.00	0.00	0.00
9,600.00	7.10	172.40	9,560.64	-643.00	85.81	-640.86	0.00	0.00	0.00
9,700.00	7.10	172.40	9,659.88	-655.26	87.44	-653.08	0.00	0.00	0.00
9,800.00	7.10	172.40	9,759.11	-667.52	89.08	-665.30	0.00	0.00	0.00
9,900.00	7.10	172.40	9,858.34	-679.78	90.71	-677.52	0.00	0.00	0.00
10,000.00	7.10	172.40	9,957.57	-692.04	92.35	-689.74	0.00	0.00	0.00
10,100.00	7.10	172.40	10,056.80	-704.30	93.98	-701.95	0.00	0.00	0.00
10,200.00	7.10	172.40	10,156.04	-716.55	95.62	-714.17	0.00	0.00	0.00
10,300.00	7.10	172.40	10,255.27	-728.81	97.26	-726.39	0.00	0.00	0.00
10,400.00	7.10	172.40	10,354.50	-741.07	98.89	-738.61	0.00	0.00	0.00
10,500.00	7.10	172.40	10,453.73	-753.33	100.53	-750.83	0.00	0.00	0.00
10,600.00	7.10	172.40	10,552.97	-765.59	102.16	-763.04	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: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3610.00usft
MD Reference: KB = 25' @ 3610.00usft
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)
10,700.00	7.10	172.40	10,652.20	-777.85	103.80	-775.26	0.00	0.00	0.00
10,800.00	7.10	172.40	10,751.43	-790.11	105.44	-787.48	0.00	0.00	0.00
10,900.00	7.10	172.40	10,850.66	-802.37	107.07	-799.70	0.00	0.00	0.00
11,000.00	7.10	172.40	10,949.90	-814.62	108.71	-811.92	0.00	0.00	0.00
11,100.00	7.10	172.40	11,049.13	-826.88	110.34	-824.13	0.00	0.00	0.00
11,200.00	7.10	172.40	11,148.36	-839.14	111.98	-836.35	0.00	0.00	0.00
11,300.00	7.10	172.40	11,247.59	-851.40	113.61	-848.57	0.00	0.00	0.00
11,400.00	7.10	172.40	11,346.82	-863.66	115.25	-860.79	0.00	0.00	0.00
11,500.00	7.10	172.40	11,446.06	-875.92	116.89	-873.01	0.00	0.00	0.00
11,600.00	7.10	172.40	11,545.29	-888.18	118.52	-885.22	0.00	0.00	0.00
11,700.00	7.10	172.40	11,644.52	-900.44	120.16	-897.44	0.00	0.00	0.00
11,800.00	7.10	172.40	11,743.75	-912.69	121.79	-909.66	0.00	0.00	0.00
11,900.00	7.10	172.40	11,842.99	-924.95	123.43	-921.88	0.00	0.00	0.00
12,000.00	7.10	172.40	11,942.22	-937.21	125.07	-934.09	0.00	0.00	0.00
12,037.07	7.10	172.40	11,979.01	-941.76	125.67	-938.62	0.00	0.00	0.00
12,050.00	5.57	170.40	11,991.85	-943.17	125.88	-940.03	12.00	-11.88	-15.47
12,075.00	2.65	160.00	12,016.79	-944.91	126.28	-941.76	12.00	-11.67	-41.58
12,100.00	1.02	59.99	12,041.78	-945.34	126.67	-942.18	12.00	-6.53	-400.07
12,125.00	3.61	13.71	12,066.76	-944.46	127.05	-941.30	12.00	10.38	-185.09
12,150.00	6.56	7.26	12,091.66	-942.28	127.42	-939.11	12.00	11.80	-25.82
12,175.00	9.54	4.81	12,116.41	-938.80	127.77	-935.62	12.00	11.92	-9.80
12,200.00	12.53	3.52	12,140.94	-934.02	128.11	-930.84	12.00	11.96	-5.16
12,225.00	15.53	2.72	12,165.19	-927.97	128.44	-924.78	12.00	11.98	-3.19
12,250.00	18.52	2.18	12,189.09	-920.66	128.75	-917.46	12.00	11.98	-2.18
12,275.00	21.52	1.78	12,212.58	-912.11	129.04	-908.90	12.00	11.99	-1.59
12,300.00	24.52	1.47	12,235.59	-902.34	129.32	-899.13	12.00	11.99	-1.22
12,325.00	27.52	1.23	12,258.05	-891.37	129.58	-888.17	12.00	11.99	-0.97
12,350.00	30.51	1.03	12,279.91	-879.25	129.81	-876.04	12.00	11.99	-0.79
12,375.00	33.51	0.87	12,301.11	-866.00	130.03	-862.79	12.00	11.99	-0.66
12,400.00	36.51	0.73	12,321.58	-851.66	130.23	-848.45	12.00	12.00	-0.56
12,425.00	39.51	0.60	12,341.28	-836.27	130.41	-833.06	12.00	12.00	-0.49
12,450.00	42.51	0.50	12,360.14	-819.87	130.57	-816.65	12.00	12.00	-0.43
12,475.00	45.51	0.40	12,378.12	-802.50	130.70	-799.29	12.00	12.00	-0.38
12,500.00	48.51	0.31	12,395.16	-784.22	130.82	-781.01	12.00	12.00	-0.35
12,525.00	51.51	0.23	12,411.23	-765.06	130.91	-761.86	12.00	12.00	-0.32
12,550.00	54.51	0.16	12,426.27	-745.10	130.98	-741.90	12.00	12.00	-0.29
12,575.00	57.51	0.09	12,440.24	-724.37	131.03	-721.18	12.00	12.00	-0.27
12,600.00	60.51	0.03	12,453.12	-702.95	131.05	-699.75	12.00	12.00	-0.25
12,625.00	63.51	359.97	12,464.85	-680.87	131.05	-677.69	12.00	12.00	-0.24
12,650.00	66.51	359.92	12,475.41	-658.22	131.03	-655.04	12.00	12.00	-0.23
12,657.61	67.42	359.90	12,478.39	-651.21	131.02	-648.04	12.00	12.00	-0.22
FTP (Ares 4 State #702H)									
12,675.00	69.50	359.86	12,484.77	-635.04	130.98	-631.87	12.00	12.00	-0.21
12,700.00	72.50	359.81	12,492.91	-611.40	130.91	-608.24	12.00	12.00	-0.21
12,725.00	75.50	359.76	12,499.80	-587.37	130.82	-584.22	12.00	12.00	-0.20
12,750.00	78.50	359.71	12,505.42	-563.02	130.71	-559.87	12.00	12.00	-0.20
12,775.00	81.50	359.66	12,509.76	-538.40	130.58	-535.26	12.00	12.00	-0.19
12,800.00	84.50	359.62	12,512.80	-513.59	130.42	-510.46	12.00	12.00	-0.19
12,825.00	87.50	359.57	12,514.55	-488.65	130.24	-485.54	12.00	12.00	-0.19
12,845.81	90.00	359.53	12,515.00	-467.85	130.08	-464.74	12.00	12.00	-0.19
12,900.00	90.00	359.53	12,515.00	-413.66	129.63	-410.58	0.00	0.00	0.00
13,000.00	90.00	359.53	12,515.00	-313.67	128.81	-310.63	0.00	0.00	0.00
13,100.00	90.00	359.53	12,515.00	-213.67	127.99	-210.68	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: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3610.00usft
MD Reference: KB = 25' @ 3610.00usft
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	-113.67	127.17	-110.73	0.00	0.00	0.00
13,300.00	90.00	359.53	12,515.00	-13.68	126.35	-10.77	0.00	0.00	0.00
13,400.00	90.00	359.53	12,515.00	86.32	125.53	89.18	0.00	0.00	0.00
13,500.00	90.00	359.53	12,515.00	186.32	124.71	189.13	0.00	0.00	0.00
13,600.00	90.00	359.53	12,515.00	286.31	123.89	289.08	0.00	0.00	0.00
13,700.00	90.00	359.53	12,515.00	386.31	123.07	389.03	0.00	0.00	0.00
13,800.00	90.00	359.53	12,515.00	486.31	122.25	488.98	0.00	0.00	0.00
13,900.00	90.00	359.53	12,515.00	586.30	121.43	588.93	0.00	0.00	0.00
14,000.00	90.00	359.53	12,515.00	686.30	120.61	688.89	0.00	0.00	0.00
14,100.00	90.00	359.53	12,515.00	786.30	119.79	788.84	0.00	0.00	0.00
14,200.00	90.00	359.53	12,515.00	886.29	118.97	888.79	0.00	0.00	0.00
14,300.00	90.00	359.53	12,515.00	986.29	118.15	988.74	0.00	0.00	0.00
14,400.00	90.00	359.53	12,515.00	1,086.29	117.33	1,088.69	0.00	0.00	0.00
14,500.00	90.00	359.53	12,515.00	1,186.28	116.51	1,188.64	0.00	0.00	0.00
14,600.00	90.00	359.53	12,515.00	1,286.28	115.69	1,288.60	0.00	0.00	0.00
14,700.00	90.00	359.53	12,515.00	1,386.28	114.87	1,388.55	0.00	0.00	0.00
14,800.00	90.00	359.53	12,515.00	1,486.27	114.05	1,488.50	0.00	0.00	0.00
14,900.00	90.00	359.53	12,515.00	1,586.27	113.23	1,588.45	0.00	0.00	0.00
15,000.00	90.00	359.53	12,515.00	1,686.27	112.41	1,688.40	0.00	0.00	0.00
15,100.00	90.00	359.53	12,515.00	1,786.26	111.59	1,788.35	0.00	0.00	0.00
15,200.00	90.00	359.53	12,515.00	1,886.26	110.77	1,888.30	0.00	0.00	0.00
15,300.00	90.00	359.53	12,515.00	1,986.26	109.95	1,988.26	0.00	0.00	0.00
15,400.00	90.00	359.53	12,515.00	2,086.25	109.13	2,088.21	0.00	0.00	0.00
15,500.00	90.00	359.53	12,515.00	2,186.25	108.31	2,188.16	0.00	0.00	0.00
15,600.00	90.00	359.53	12,515.00	2,286.25	107.48	2,288.11	0.00	0.00	0.00
15,700.00	90.00	359.53	12,515.00	2,386.24	106.66	2,388.06	0.00	0.00	0.00
15,800.00	90.00	359.53	12,515.00	2,486.24	105.84	2,488.01	0.00	0.00	0.00
15,900.00	90.00	359.53	12,515.00	2,586.24	105.02	2,587.96	0.00	0.00	0.00
16,000.00	90.00	359.53	12,515.00	2,686.23	104.20	2,687.92	0.00	0.00	0.00
16,100.00	90.00	359.53	12,515.00	2,786.23	103.38	2,787.87	0.00	0.00	0.00
16,200.00	90.00	359.53	12,515.00	2,886.23	102.56	2,887.82	0.00	0.00	0.00
16,300.00	90.00	359.53	12,515.00	2,986.22	101.74	2,987.77	0.00	0.00	0.00
16,400.00	90.00	359.53	12,515.00	3,086.22	100.92	3,087.72	0.00	0.00	0.00
16,500.00	90.00	359.53	12,515.00	3,186.22	100.10	3,187.67	0.00	0.00	0.00
16,600.00	90.00	359.53	12,515.00	3,286.21	99.28	3,287.62	0.00	0.00	0.00
16,700.00	90.00	359.53	12,515.00	3,386.21	98.46	3,387.58	0.00	0.00	0.00
16,800.00	90.00	359.53	12,515.00	3,486.21	97.64	3,487.53	0.00	0.00	0.00
16,900.00	90.00	359.53	12,515.00	3,586.20	96.82	3,587.48	0.00	0.00	0.00
17,000.00	90.00	359.53	12,515.00	3,686.20	96.00	3,687.43	0.00	0.00	0.00
17,100.00	90.00	359.53	12,515.00	3,786.20	95.18	3,787.38	0.00	0.00	0.00
17,200.00	90.00	359.53	12,515.00	3,886.19	94.36	3,887.33	0.00	0.00	0.00
17,300.00	90.00	359.53	12,515.00	3,986.19	93.54	3,987.29	0.00	0.00	0.00
17,365.81	90.00	359.53	12,515.00	4,052.00	93.00	4,053.07	0.00	0.00	0.00

PBHL (Ares 4 State #702H)



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: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3610.00usft
MD Reference: KB = 25' @ 3610.00usft
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
PBHL (Ares 4 State #70: - plan hits target center - Point	0.00	0.00	12,515.00	4,052.00	93.00	456,708.00	776,714.00	32.25327119	-103.57193435
FTP (Ares 4 State #702f - plan misses target center by 39.50usft at 12657.61usft MD (12478.39 TVD, -651.21 N, 131.02 E) - Point	0.00	0.00	12,515.00	-666.00	132.00	451,990.00	776,753.00	32.24030228	-103.57191642