

HOBBS OCD

NOV 06 2017

RECEIVED



Lea County, NM (NAD 83 NME)

Lucky 13 Fed Com #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

Azimuths to Grid North
 True North: -0.43°
 Magnetic North: 6.49°

Magnetic Field
 Strength: 47872.0 nT
 Dip Angle: 59.98°
 Date: 8/7/2017
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction: Add 6.49°
 To convert a Magnetic Direction to a True Direction: Add 6.91° East
 To convert a True Direction to a Grid Direction: Subtract 0.43°

WELL DETAILS: #701H

KB = 25' @ 3376.0usft 3351.0
 Northing 411609.00 Easting 789280.00 Latitude 32° 7' 44.610 N Longitude 103° 31' 36.552 W

SECTION DETAILS

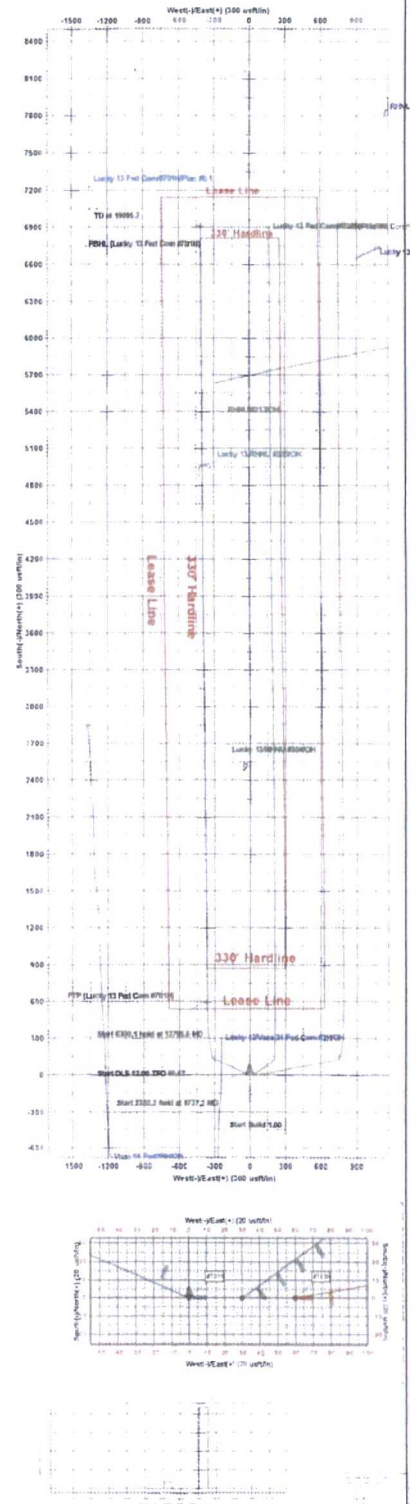
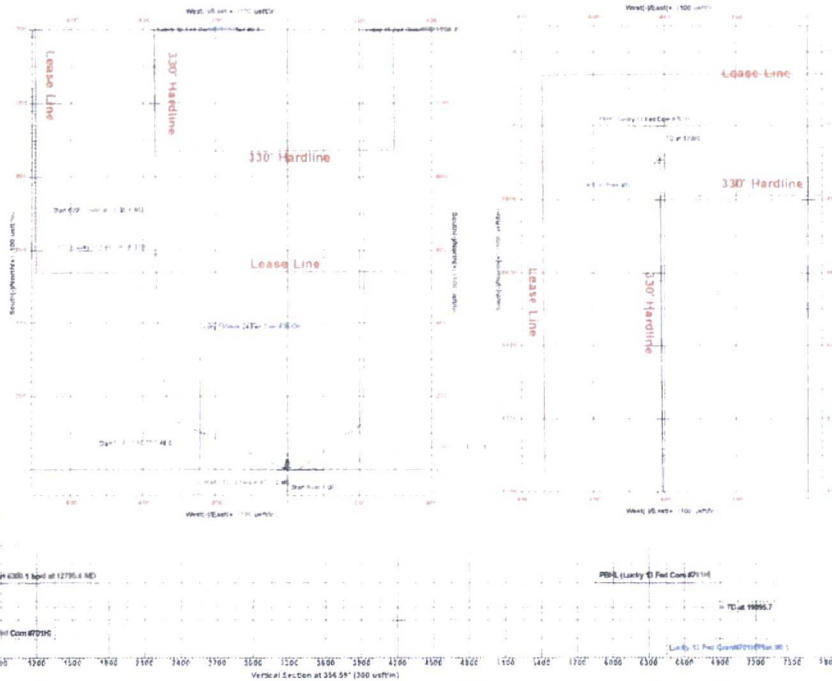
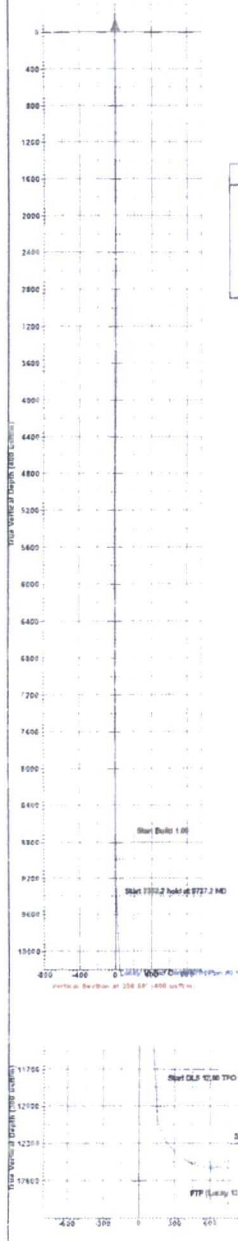
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	9020.0	0.00	0.00	9020.0	0.0	0.0	0.00	0.00	0.0	
3	9737.2	7.17	293.06	9735.3	17.6	-41.2	1.00	293.06	20.0	
4	12069.4	7.17	293.06	12049.3	131.6	-309.1	0.00	0.00	149.8	
5	12795.6	90.00	359.57	12500.0	606.1	-364.7	12.00	66.67	628.7	
6	19095.7	90.00	359.57	12500.0	6908.0	-412.0	0.00	0.00	6920.3	PBHL (Lucky 13 Fed Com #701H)

CASING DETAILS

No casing data is available.

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
FTP (Lucky 13 Fed Com #701H)	12600.0	588.0	-365.0	412187.00	789195.00
PBHL (Lucky 13 Fed Com #701H)	12600.0	6908.0	-412.0	4118617.00	788668.00





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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Lucky 13 Fed Com

#701H

OH

Plan: Plan #0.1

Standard Planning Report

07 August, 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: Lucky 13 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3376.0usft
MD Reference: KB = 25' @ 3376.0usft
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 Lucky 13 Fed Com

Site Position: Northing: 411,609.00 usft Latitude: 32° 7' 44.610 N
From: Map Easting: 789,280.00 usft Longitude: 103° 31' 56.552 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.43°

Well #701H
Well Position +N/-S 0.0 usft Northing: 411,609.00 usft Latitude: 32° 7' 44.610 N
+E/-W 0.0 usft Easting: 789,280.00 usft Longitude: 103° 31' 56.552 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,351.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/7/2017	6.91	59.98	47,871.99048883

Design Plan #0.1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
(usft) (usft) (usft) (°)
0.0 0.0 0.0 356.59

Plan Survey Tool Program Date 8/7/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.0	19,095.7	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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,020.0	0.00	0.00	9,020.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,737.2	7.17	293.06	9,735.3	17.6	-41.2	1.00	1.00	0.00	293.06	
12,069.4	7.17	293.06	12,049.3	131.6	-309.1	0.00	0.00	0.00	0.00	
12,795.6	90.00	359.57	12,500.0	608.1	-364.7	12.00	11.41	9.16	66.67	
19,095.7	90.00	359.57	12,500.0	6,908.0	-412.0	0.00	0.00	0.00	0.00	0.00 PBHL (Lucky 13 Fed)



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Lucky 13 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3376.0usft
MD Reference: KB = 25' @ 3376.0usft
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)
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	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



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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	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,020.0	0.00	0.00	9,020.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.80	293.06	9,100.0	0.2	-0.5	0.2	1.00	1.00	0.00
9,200.0	1.80	293.06	9,200.0	1.1	-2.6	1.2	1.00	1.00	0.00
9,300.0	2.80	293.06	9,299.9	2.7	-6.3	3.0	1.00	1.00	0.00
9,400.0	3.80	293.06	9,399.7	4.9	-11.6	5.6	1.00	1.00	0.00
9,500.0	4.80	293.06	9,499.4	7.9	-18.5	9.0	1.00	1.00	0.00
9,600.0	5.80	293.06	9,599.0	11.5	-27.0	13.1	1.00	1.00	0.00
9,700.0	6.80	293.06	9,698.4	15.8	-37.1	18.0	1.00	1.00	0.00
9,737.2	7.17	293.06	9,735.3	17.6	-41.2	20.0	1.00	1.00	0.00
9,800.0	7.17	293.06	9,797.6	20.6	-48.5	23.5	0.00	0.00	0.00
9,900.0	7.17	293.06	9,896.9	25.5	-59.9	29.0	0.00	0.00	0.00
10,000.0	7.17	293.06	9,996.1	30.4	-71.4	34.6	0.00	0.00	0.00
10,100.0	7.17	293.06	10,095.3	35.3	-82.9	40.2	0.00	0.00	0.00
10,200.0	7.17	293.06	10,194.5	40.2	-94.4	45.7	0.00	0.00	0.00
10,300.0	7.17	293.06	10,293.7	45.1	-105.9	51.3	0.00	0.00	0.00
10,400.0	7.17	293.06	10,392.9	50.0	-117.4	56.9	0.00	0.00	0.00
10,500.0	7.17	293.06	10,492.2	54.9	-128.9	62.4	0.00	0.00	0.00



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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)
10,600.0	7.17	293.06	10,591.4	59.8	-140.4	68.0	0.00	0.00	0.00
10,700.0	7.17	293.06	10,690.6	64.6	-151.8	73.6	0.00	0.00	0.00
10,800.0	7.17	293.06	10,789.8	69.5	-163.3	79.1	0.00	0.00	0.00
10,900.0	7.17	293.06	10,889.0	74.4	-174.8	84.7	0.00	0.00	0.00
11,000.0	7.17	293.06	10,988.2	79.3	-186.3	90.3	0.00	0.00	0.00
11,100.0	7.17	293.06	11,087.5	84.2	-197.8	95.8	0.00	0.00	0.00
11,200.0	7.17	293.06	11,186.7	89.1	-209.3	101.4	0.00	0.00	0.00
11,300.0	7.17	293.06	11,285.9	94.0	-220.8	107.0	0.00	0.00	0.00
11,400.0	7.17	293.06	11,385.1	98.9	-232.2	112.5	0.00	0.00	0.00
11,500.0	7.17	293.06	11,484.3	103.8	-243.7	118.1	0.00	0.00	0.00
11,600.0	7.17	293.06	11,583.6	108.7	-255.2	123.7	0.00	0.00	0.00
11,700.0	7.17	293.06	11,682.8	113.6	-266.7	129.2	0.00	0.00	0.00
11,800.0	7.17	293.06	11,782.0	118.4	-278.2	134.8	0.00	0.00	0.00
11,900.0	7.17	293.06	11,881.2	123.3	-289.7	140.4	0.00	0.00	0.00
12,000.0	7.17	293.06	11,980.4	128.2	-301.2	145.9	0.00	0.00	0.00
12,069.4	7.17	293.06	12,049.3	131.6	-309.1	149.8	0.00	0.00	0.00
12,075.0	7.46	297.82	12,054.8	131.9	-309.8	150.1	12.00	5.21	84.93
12,100.0	9.26	314.50	12,079.6	134.1	-312.6	152.5	12.00	7.18	66.74
12,125.0	11.56	325.23	12,104.2	137.6	-315.5	156.1	12.00	9.21	42.90
12,150.0	14.12	332.27	12,128.5	142.3	-318.4	161.0	12.00	10.26	28.19
12,175.0	16.83	337.14	12,152.6	148.4	-321.2	167.2	12.00	10.83	19.48
12,200.0	19.62	340.68	12,176.4	155.7	-324.0	174.7	12.00	11.16	14.15
12,225.0	22.46	343.36	12,199.7	164.2	-326.7	183.4	12.00	11.37	10.72
12,250.0	25.34	345.47	12,222.6	173.9	-329.4	193.3	12.00	11.51	8.41
12,275.0	28.24	347.16	12,244.9	184.9	-332.1	204.3	12.00	11.60	6.79
12,300.0	31.16	348.57	12,266.6	197.0	-334.7	216.6	12.00	11.67	5.62
12,325.0	34.09	349.75	12,287.6	210.2	-337.2	229.9	12.00	11.73	4.74
12,350.0	37.03	350.77	12,308.0	224.6	-339.7	244.4	12.00	11.76	4.07
12,375.0	39.98	351.66	12,327.5	240.0	-342.1	259.9	12.00	11.79	3.55
12,400.0	42.93	352.45	12,346.3	256.3	-344.3	276.4	12.00	11.82	3.14
12,425.0	45.89	353.15	12,364.1	273.7	-346.5	293.8	12.00	11.84	2.81
12,450.0	48.86	353.78	12,381.1	292.0	-348.6	312.2	12.00	11.85	2.54
12,475.0	51.82	354.36	12,397.0	311.1	-350.6	331.4	12.00	11.87	2.32
12,500.0	54.79	354.90	12,411.9	331.1	-352.5	351.5	12.00	11.88	2.14
12,525.0	57.76	355.40	12,425.8	351.8	-354.2	372.3	12.00	11.89	1.99
12,550.0	60.74	355.86	12,438.6	373.2	-355.9	393.7	12.00	11.89	1.86
12,575.0	63.71	356.30	12,450.3	395.3	-357.4	415.6	12.00	11.90	1.76
12,600.0	66.69	356.72	12,460.7	417.9	-358.8	438.5	12.00	11.90	1.67
12,625.0	69.66	357.12	12,470.0	441.1	-360.0	461.7	12.00	11.91	1.60
12,650.0	72.64	357.50	12,478.1	464.7	-361.1	485.4	12.00	11.91	1.54
12,675.0	75.62	357.87	12,484.9	488.7	-362.1	509.4	12.00	11.91	1.49
12,700.0	78.60	358.24	12,490.5	513.1	-362.9	533.8	12.00	11.92	1.45
12,725.0	81.58	358.59	12,494.8	537.7	-363.6	558.4	12.00	11.92	1.42
12,750.0	84.56	358.94	12,497.8	562.5	-364.1	583.2	12.00	11.92	1.40
12,775.0	87.54	359.29	12,499.6	587.5	-364.5	608.1	12.00	11.92	1.38
12,775.6	87.61	359.29	12,499.6	588.0	-364.5	608.7	12.00	11.92	1.38
FTP (Lucky 13 Fed Com #701H)									
12,795.6	90.00	359.57	12,500.0	608.1	-364.7	628.7	12.00	11.92	1.38
12,800.0	90.00	359.57	12,500.0	612.5	-364.8	633.1	0.00	0.00	0.00
12,900.0	90.00	359.57	12,500.0	712.5	-365.5	732.9	0.00	0.00	0.00
13,000.0	90.00	359.57	12,500.0	812.4	-366.3	832.8	0.00	0.00	0.00
13,100.0	90.00	359.57	12,500.0	912.4	-367.0	932.7	0.00	0.00	0.00
13,200.0	90.00	359.57	12,500.0	1,012.4	-367.6	1,032.5	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: Lucky 13 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3376.0usft
MD Reference: KB = 25' @ 3376.0usft
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	359.57	12,500.0	1,112.4	-368.5	1,132.4	0.00	0.00	0.00
13,400.0	90.00	359.57	12,500.0	1,212.4	-369.3	1,232.3	0.00	0.00	0.00
13,500.0	90.00	359.57	12,500.0	1,312.4	-370.0	1,332.1	0.00	0.00	0.00
13,600.0	90.00	359.57	12,500.0	1,412.4	-370.8	1,432.0	0.00	0.00	0.00
13,700.0	90.00	359.57	12,500.0	1,512.4	-371.5	1,531.9	0.00	0.00	0.00
13,800.0	90.00	359.57	12,500.0	1,612.4	-372.3	1,631.7	0.00	0.00	0.00
13,900.0	90.00	359.57	12,500.0	1,712.4	-373.0	1,731.6	0.00	0.00	0.00
14,000.0	90.00	359.57	12,500.0	1,812.4	-373.8	1,831.5	0.00	0.00	0.00
14,100.0	90.00	359.57	12,500.0	1,912.4	-374.5	1,931.3	0.00	0.00	0.00
14,200.0	90.00	359.57	12,500.0	2,012.4	-375.3	2,031.2	0.00	0.00	0.00
14,300.0	90.00	359.57	12,500.0	2,112.4	-376.0	2,131.1	0.00	0.00	0.00
14,400.0	90.00	359.57	12,500.0	2,212.4	-376.8	2,230.9	0.00	0.00	0.00
14,500.0	90.00	359.57	12,500.0	2,312.4	-377.5	2,330.8	0.00	0.00	0.00
14,600.0	90.00	359.57	12,500.0	2,412.4	-378.3	2,430.6	0.00	0.00	0.00
14,700.0	90.00	359.57	12,500.0	2,512.4	-379.0	2,530.5	0.00	0.00	0.00
14,800.0	90.00	359.57	12,500.0	2,612.4	-379.8	2,630.4	0.00	0.00	0.00
14,900.0	90.00	359.57	12,500.0	2,712.4	-380.5	2,730.2	0.00	0.00	0.00
15,000.0	90.00	359.57	12,500.0	2,812.4	-381.3	2,830.1	0.00	0.00	0.00
15,100.0	90.00	359.57	12,500.0	2,912.4	-382.0	2,930.0	0.00	0.00	0.00
15,200.0	90.00	359.57	12,500.0	3,012.4	-382.8	3,029.8	0.00	0.00	0.00
15,300.0	90.00	359.57	12,500.0	3,112.4	-383.5	3,129.7	0.00	0.00	0.00
15,400.0	90.00	359.57	12,500.0	3,212.4	-384.3	3,229.6	0.00	0.00	0.00
15,500.0	90.00	359.57	12,500.0	3,312.4	-385.0	3,329.4	0.00	0.00	0.00
15,600.0	90.00	359.57	12,500.0	3,412.4	-385.8	3,429.3	0.00	0.00	0.00
15,700.0	90.00	359.57	12,500.0	3,512.4	-386.5	3,529.2	0.00	0.00	0.00
15,800.0	90.00	359.57	12,500.0	3,612.4	-387.3	3,629.0	0.00	0.00	0.00
15,900.0	90.00	359.57	12,500.0	3,712.4	-388.0	3,728.9	0.00	0.00	0.00
16,000.0	90.00	359.57	12,500.0	3,812.4	-388.8	3,828.7	0.00	0.00	0.00
16,100.0	90.00	359.57	12,500.0	3,912.4	-389.5	3,928.6	0.00	0.00	0.00
16,200.0	90.00	359.57	12,500.0	4,012.4	-390.3	4,028.5	0.00	0.00	0.00
16,300.0	90.00	359.57	12,500.0	4,112.4	-391.0	4,128.3	0.00	0.00	0.00
16,400.0	90.00	359.57	12,500.0	4,212.4	-391.8	4,228.2	0.00	0.00	0.00
16,500.0	90.00	359.57	12,500.0	4,312.3	-392.5	4,328.1	0.00	0.00	0.00
16,600.0	90.00	359.57	12,500.0	4,412.3	-393.3	4,427.9	0.00	0.00	0.00
16,700.0	90.00	359.57	12,500.0	4,512.3	-394.0	4,527.8	0.00	0.00	0.00
16,800.0	90.00	359.57	12,500.0	4,612.3	-394.8	4,627.7	0.00	0.00	0.00
16,900.0	90.00	359.57	12,500.0	4,712.3	-395.5	4,727.5	0.00	0.00	0.00
17,000.0	90.00	359.57	12,500.0	4,812.3	-396.3	4,827.4	0.00	0.00	0.00
17,100.0	90.00	359.57	12,500.0	4,912.3	-397.0	4,927.3	0.00	0.00	0.00
17,200.0	90.00	359.57	12,500.0	5,012.3	-397.8	5,027.1	0.00	0.00	0.00
17,300.0	90.00	359.57	12,500.0	5,112.3	-398.5	5,127.0	0.00	0.00	0.00
17,400.0	90.00	359.57	12,500.0	5,212.3	-399.3	5,226.8	0.00	0.00	0.00
17,500.0	90.00	359.57	12,500.0	5,312.3	-400.0	5,326.7	0.00	0.00	0.00
17,600.0	90.00	359.57	12,500.0	5,412.3	-400.8	5,426.6	0.00	0.00	0.00
17,700.0	90.00	359.57	12,500.0	5,512.3	-401.5	5,526.4	0.00	0.00	0.00
17,800.0	90.00	359.57	12,500.0	5,612.3	-402.3	5,626.3	0.00	0.00	0.00
17,900.0	90.00	359.57	12,500.0	5,712.3	-403.0	5,726.2	0.00	0.00	0.00
18,000.0	90.00	359.57	12,500.0	5,812.3	-403.8	5,826.0	0.00	0.00	0.00
18,100.0	90.00	359.57	12,500.0	5,912.3	-404.5	5,925.9	0.00	0.00	0.00
18,200.0	90.00	359.57	12,500.0	6,012.3	-405.3	6,025.8	0.00	0.00	0.00
18,300.0	90.00	359.57	12,500.0	6,112.3	-406.0	6,125.6	0.00	0.00	0.00
18,400.0	90.00	359.57	12,500.0	6,212.3	-406.8	6,225.5	0.00	0.00	0.00
18,500.0	90.00	359.57	12,500.0	6,312.3	-407.5	6,325.4	0.00	0.00	0.00
18,600.0	90.00	359.57	12,500.0	6,412.3	-408.3	6,425.2	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: Lucky 13 Fed Com
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3376.0usft
 MD Reference: KB = 25' @ 3376.0usft
 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)
18,700.0	90.00	359.57	12,500.0	6,512.3	-409.0	6,525.1	0.00	0.00	0.00
18,800.0	90.00	359.57	12,500.0	6,612.3	-409.8	6,625.0	0.00	0.00	0.00
18,900.0	90.00	359.57	12,500.0	6,712.3	-410.5	6,724.8	0.00	0.00	0.00
19,000.0	90.00	359.57	12,500.0	6,812.3	-411.3	6,824.7	0.00	0.00	0.00
19,095.7	90.00	359.57	12,500.0	6,908.0	-412.0	6,920.3	0.00	0.00	0.00

PBHL (Lucky 13 Fed Com #701H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (Lucky 13 Fed Com)	0.00	0.00	12,500.0	588.0	-365.0	412,197.00	788,915.00	32° 7' 50.455 N	103° 32' 0.745 W
- plan misses target center by 0.6usft at 12775.6usft MD (12499.6 TVD, 588.0 N, -364.5 E)									
- Point									
PBHL (Lucky 13 Fed Co)	0.00	0.00	12,500.0	6,908.0	-412.0	418,517.00	788,868.00	32° 8' 52.996 N	103° 32' 0.746 W
- plan hits target center									
- Point									