

HOBBS OCD

MAR 11 2016

RECEIVED



Lea County, NM (NAD 27 NME)

#702H

H&P 651

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.51°

Magnetic Field
Strength: 47864.3nT
Dip Angle: 85.95°
Date: 7/18/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.51°
To convert a Magnetic Direction to a True Direction, Add 6.98° East
To convert a True Direction to a Grid Direction, Subtract 0.47°

WELL DETAILS: #702H

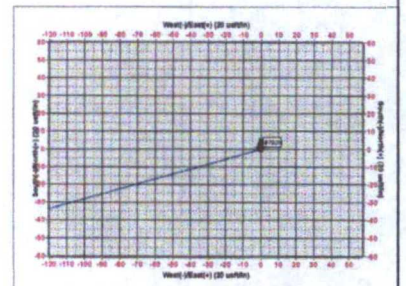
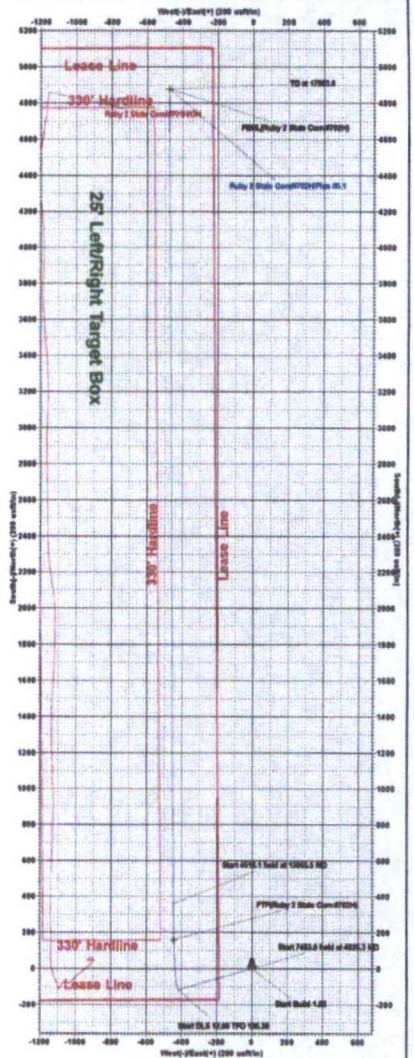
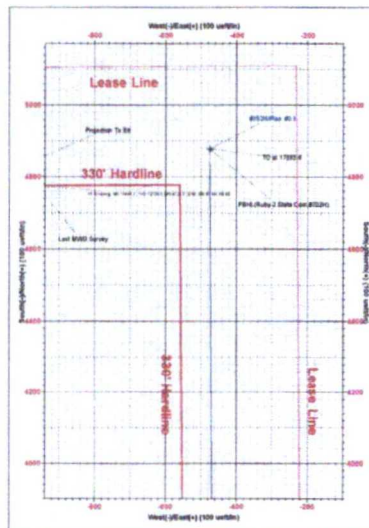
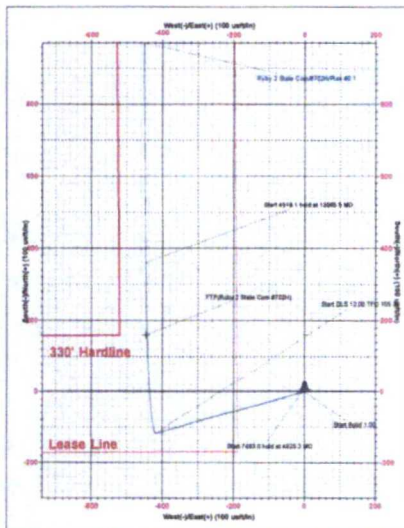
Ground Level: 3305.0
KB = 25 @ 3330 Surf (H&P 651)
Easting: 775623.00 32' 3" 55 920 N Longitude: 103° 26' 38 100 W Shot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSecl	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4890.0	0.00	0.00	4890.0	0.0	0.0	0.00	0.00	0.0		
3	4826.3	3.26	264.32	4826.2	-2.5	-9.9	1.00	264.32	-1.6		
4	12308.3	3.26	264.32	12296.1	-117.3	-417.8	0.00	0.00	-76.2		
5	12066.6	90.90	288.86	12780.0	260.0	-447.2	12.00	105.30	401.8		
6	17982.6	90.00	358.65	12790.0	4678.0	-476.0	0.00	0.00	4901.1		PBH(Ruby 2 State Com #702H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
FT(Ruby 2 State Com #702H)	12780.0	165.0	-448.0	388881.80	775677.08	Point
PBH(Ruby 2 State Com #702H)	12780.0	4678.0	-476.0	393279.00	775048.59	Point



Vertical Section at 334.44° (200 units)

MAR 14 2016



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ruby 2 State Com

#702H

OH

Plan: Plan #0.1

Standard Planning Report

09 March, 2016



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Ruby 2 State Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3330.0usft (H&P 651)
MD Reference: KB = 25 @ 3330.0usft (H&P 651)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project: Lea County, NM (NAD 27 NME)
Map System: US State Plane 1927 (Exact solution) System Datum: Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

Site: Ruby 2 State Com
Site Position: Northing: 388,748.00 usft Latitude: 32° 3' 56.457 N
From: Map Easting: 774,632.00 usft Longitude: 103° 26' 48.449 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.47°

Well: #702H
Well Position: +N/-S -47.0 usft Northing: 388,701.00 usft Latitude: 32° 3' 55.920 N
+E/-W 891.0 usft Easting: 775,523.00 usft Longitude: 103° 26' 38.100 W
Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,305.0 usft

Wellbore: OH
Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
IGRF2015 7/10/2016 6.98 59.95 47,954

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 0.0 354.44

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,825.3	3.25	254.32	4,825.2	-2.5	-8.9	1.00	1.00	0.00	254.32	
12,308.3	3.25	254.32	12,296.1	-117.3	-417.8	0.00	0.00	0.00	0.00	
13,065.5	90.00	359.65	12,780.0	360.0	-447.2	12.00	11.46	13.91	105.30	
17,583.6	90.00	359.65	12,780.0	4,878.0	-475.0	0.00	0.00	0.00	0.00	PBHL(Ruby 2 State C



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Project: Lea County, NM (NAD 27 NME)
Site: Ruby 2 State Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3330.0usft (H&P 651)
MD Reference: KB = 25 @ 3330.0usft (H&P 651)
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	1.00	254.32	4,600.0	-0.2	-0.8	-0.2	1.00	1.00	0.00
4,700.0	2.00	254.32	4,700.0	-0.9	-3.4	-0.6	1.00	1.00	0.00
4,800.0	3.00	254.32	4,799.9	-2.1	-7.6	-1.4	1.00	1.00	0.00
4,825.3	3.25	254.32	4,825.2	-2.5	-8.9	-1.6	1.00	1.00	0.00
4,900.0	3.25	254.32	4,899.7	-3.6	-13.0	-2.4	0.00	0.00	0.00
5,000.0	3.25	254.32	4,999.5	-5.2	-18.4	-3.4	0.00	0.00	0.00
5,100.0	3.25	254.32	5,099.4	-6.7	-23.9	-4.4	0.00	0.00	0.00
5,200.0	3.25	254.32	5,199.2	-8.2	-29.4	-5.4	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)
5,300.0	3.25	254.32	5,299.1	-9.8	-34.8	-6.4	0.00	0.00	0.00
5,400.0	3.25	254.32	5,398.9	-11.3	-40.3	-7.4	0.00	0.00	0.00
5,500.0	3.25	254.32	5,498.7	-12.8	-45.8	-8.3	0.00	0.00	0.00
5,600.0	3.25	254.32	5,598.6	-14.4	-51.2	-9.3	0.00	0.00	0.00
5,700.0	3.25	254.32	5,698.4	-15.9	-56.7	-10.3	0.00	0.00	0.00
5,800.0	3.25	254.32	5,798.3	-17.4	-62.1	-11.3	0.00	0.00	0.00
5,900.0	3.25	254.32	5,898.1	-19.0	-67.6	-12.3	0.00	0.00	0.00
6,000.0	3.25	254.32	5,997.9	-20.5	-73.1	-13.3	0.00	0.00	0.00
6,100.0	3.25	254.32	6,097.8	-22.0	-78.5	-14.3	0.00	0.00	0.00
6,200.0	3.25	254.32	6,197.6	-23.6	-84.0	-15.3	0.00	0.00	0.00
6,300.0	3.25	254.32	6,297.4	-25.1	-89.5	-16.3	0.00	0.00	0.00
6,400.0	3.25	254.32	6,397.3	-26.6	-94.9	-17.3	0.00	0.00	0.00
6,500.0	3.25	254.32	6,497.1	-28.2	-100.4	-18.3	0.00	0.00	0.00
6,600.0	3.25	254.32	6,597.0	-29.7	-105.9	-19.3	0.00	0.00	0.00
6,700.0	3.25	254.32	6,696.8	-31.2	-111.3	-20.3	0.00	0.00	0.00
6,800.0	3.25	254.32	6,796.6	-32.8	-116.8	-21.3	0.00	0.00	0.00
6,900.0	3.25	254.32	6,896.5	-34.3	-122.3	-22.3	0.00	0.00	0.00
7,000.0	3.25	254.32	6,996.3	-35.8	-127.7	-23.3	0.00	0.00	0.00
7,100.0	3.25	254.32	7,096.2	-37.4	-133.2	-24.3	0.00	0.00	0.00
7,200.0	3.25	254.32	7,196.0	-38.9	-138.6	-25.3	0.00	0.00	0.00
7,300.0	3.25	254.32	7,295.8	-40.4	-144.1	-26.3	0.00	0.00	0.00
7,400.0	3.25	254.32	7,395.7	-42.0	-149.6	-27.3	0.00	0.00	0.00
7,500.0	3.25	254.32	7,495.5	-43.5	-155.0	-28.3	0.00	0.00	0.00
7,600.0	3.25	254.32	7,595.4	-45.0	-160.5	-29.3	0.00	0.00	0.00
7,700.0	3.25	254.32	7,695.2	-46.6	-166.0	-30.3	0.00	0.00	0.00
7,800.0	3.25	254.32	7,795.0	-48.1	-171.4	-31.3	0.00	0.00	0.00
7,900.0	3.25	254.32	7,894.9	-49.6	-176.9	-32.3	0.00	0.00	0.00
8,000.0	3.25	254.32	7,994.7	-51.2	-182.4	-33.3	0.00	0.00	0.00
8,100.0	3.25	254.32	8,094.5	-52.7	-187.8	-34.3	0.00	0.00	0.00
8,200.0	3.25	254.32	8,194.4	-54.2	-193.3	-35.3	0.00	0.00	0.00
8,300.0	3.25	254.32	8,294.2	-55.8	-198.7	-36.3	0.00	0.00	0.00
8,400.0	3.25	254.32	8,394.1	-57.3	-204.2	-37.3	0.00	0.00	0.00
8,500.0	3.25	254.32	8,493.9	-58.8	-209.7	-38.3	0.00	0.00	0.00
8,600.0	3.25	254.32	8,593.7	-60.4	-215.1	-39.2	0.00	0.00	0.00
8,700.0	3.25	254.32	8,693.6	-61.9	-220.6	-40.2	0.00	0.00	0.00
8,800.0	3.25	254.32	8,793.4	-63.5	-226.1	-41.2	0.00	0.00	0.00
8,900.0	3.25	254.32	8,893.3	-65.0	-231.5	-42.2	0.00	0.00	0.00
9,000.0	3.25	254.32	8,993.1	-66.5	-237.0	-43.2	0.00	0.00	0.00
9,100.0	3.25	254.32	9,092.9	-68.1	-242.5	-44.2	0.00	0.00	0.00
9,200.0	3.25	254.32	9,192.8	-69.6	-247.9	-45.2	0.00	0.00	0.00
9,300.0	3.25	254.32	9,292.6	-71.1	-253.4	-46.2	0.00	0.00	0.00
9,400.0	3.25	254.32	9,392.5	-72.7	-258.9	-47.2	0.00	0.00	0.00
9,500.0	3.25	254.32	9,492.3	-74.2	-264.3	-48.2	0.00	0.00	0.00
9,600.0	3.25	254.32	9,592.1	-75.7	-269.8	-49.2	0.00	0.00	0.00
9,700.0	3.25	254.32	9,692.0	-77.3	-275.2	-50.2	0.00	0.00	0.00
9,800.0	3.25	254.32	9,791.8	-78.8	-280.7	-51.2	0.00	0.00	0.00
9,900.0	3.25	254.32	9,891.6	-80.3	-286.2	-52.2	0.00	0.00	0.00
10,000.0	3.25	254.32	9,991.5	-81.9	-291.6	-53.2	0.00	0.00	0.00
10,100.0	3.25	254.32	10,091.3	-83.4	-297.1	-54.2	0.00	0.00	0.00
10,200.0	3.25	254.32	10,191.2	-84.9	-302.6	-55.2	0.00	0.00	0.00
10,300.0	3.25	254.32	10,291.0	-86.5	-308.0	-56.2	0.00	0.00	0.00
10,400.0	3.25	254.32	10,390.8	-88.0	-313.5	-57.2	0.00	0.00	0.00
10,500.0	3.25	254.32	10,490.7	-89.5	-319.0	-58.2	0.00	0.00	0.00
10,600.0	3.25	254.32	10,590.5	-91.1	-324.4	-59.2	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)
10,700.0	3.25	254.32	10,690.4	-92.6	-329.9	-60.2	0.00	0.00	0.00
10,800.0	3.25	254.32	10,790.2	-94.1	-335.4	-61.2	0.00	0.00	0.00
10,900.0	3.25	254.32	10,890.0	-95.7	-340.8	-62.2	0.00	0.00	0.00
11,000.0	3.25	254.32	10,989.9	-97.2	-346.3	-63.2	0.00	0.00	0.00
11,100.0	3.25	254.32	11,089.7	-98.7	-351.7	-64.2	0.00	0.00	0.00
11,200.0	3.25	254.32	11,189.6	-100.3	-357.2	-65.2	0.00	0.00	0.00
11,300.0	3.25	254.32	11,289.4	-101.8	-362.7	-66.2	0.00	0.00	0.00
11,400.0	3.25	254.32	11,389.2	-103.3	-368.1	-67.2	0.00	0.00	0.00
11,500.0	3.25	254.32	11,489.1	-104.9	-373.6	-68.2	0.00	0.00	0.00
11,600.0	3.25	254.32	11,588.9	-106.4	-379.1	-69.2	0.00	0.00	0.00
11,700.0	3.25	254.32	11,688.7	-107.9	-384.5	-70.1	0.00	0.00	0.00
11,800.0	3.25	254.32	11,788.6	-109.5	-390.0	-71.1	0.00	0.00	0.00
11,900.0	3.25	254.32	11,888.4	-111.0	-395.5	-72.1	0.00	0.00	0.00
12,000.0	3.25	254.32	11,988.3	-112.5	-400.9	-73.1	0.00	0.00	0.00
12,100.0	3.25	254.32	12,088.1	-114.1	-406.4	-74.1	0.00	0.00	0.00
12,200.0	3.25	254.32	12,187.9	-115.6	-411.8	-75.1	0.00	0.00	0.00
12,308.3	3.25	254.32	12,286.1	-117.3	-417.8	-76.2	0.00	0.00	0.00
12,325.0	3.34	289.63	12,312.7	-117.2	-418.7	-76.1	12.00	0.51	211.87
12,350.0	5.19	322.55	12,337.7	-116.1	-420.1	-74.8	12.00	7.42	131.68
12,375.0	7.80	336.04	12,362.5	-113.6	-421.4	-72.2	12.00	10.41	53.97
12,400.0	10.61	342.63	12,387.2	-109.9	-422.8	-68.4	12.00	11.25	26.35
12,425.0	13.50	346.45	12,411.6	-104.8	-424.2	-63.2	12.00	11.57	15.28
12,450.0	16.43	348.94	12,435.8	-98.5	-425.5	-56.8	12.00	11.72	9.94
12,475.0	19.39	350.68	12,459.6	-91.0	-426.9	-49.2	12.00	11.81	6.99
12,500.0	22.35	351.99	12,482.9	-82.2	-428.2	-40.3	12.00	11.86	5.20
12,525.0	25.32	352.99	12,505.8	-72.1	-429.5	-30.2	12.00	11.89	4.04
12,550.0	28.30	353.80	12,528.1	-60.9	-430.8	-18.9	12.00	11.91	3.24
12,575.0	31.28	354.47	12,549.8	-48.6	-432.1	-6.5	12.00	11.93	2.67
12,600.0	34.27	355.03	12,570.8	-35.1	-433.3	7.0	12.00	11.94	2.25
12,625.0	37.25	355.51	12,591.1	-20.6	-434.5	21.7	12.00	11.95	1.93
12,650.0	40.24	355.93	12,610.6	-5.0	-435.7	37.3	12.00	11.95	1.68
12,675.0	43.23	356.30	12,629.2	11.6	-436.8	53.9	12.00	11.96	1.48
12,700.0	46.22	356.64	12,647.0	29.2	-437.9	71.5	12.00	11.96	1.33
12,725.0	49.21	356.94	12,663.8	47.7	-438.9	90.0	12.00	11.97	1.20
12,750.0	52.21	357.21	12,679.7	67.0	-439.9	109.3	12.00	11.97	1.10
12,775.0	55.20	357.46	12,694.4	87.1	-440.9	129.4	12.00	11.97	1.01
12,800.0	58.19	357.70	12,708.2	108.0	-441.7	150.3	12.00	11.97	0.94
12,825.0	61.19	357.92	12,720.8	129.6	-442.6	171.8	12.00	11.98	0.88
12,850.0	64.18	358.13	12,732.3	151.8	-443.3	194.0	12.00	11.98	0.83
12,875.0	67.18	358.33	12,742.6	174.5	-444.0	216.7	12.00	11.98	0.79
12,875.1	67.18	358.33	12,742.6	174.7	-444.0	216.9	0.00	0.00	0.00
FTP(Ruby 2 State Com #702H)									
12,900.0	70.17	358.52	12,751.6	197.8	-444.7	240.0	12.07	12.05	0.76
12,925.0	73.17	358.70	12,759.5	221.5	-445.3	263.6	12.00	11.98	0.73
12,950.0	76.16	358.87	12,766.1	245.6	-445.8	287.7	12.00	11.98	0.71
12,975.0	79.16	359.05	12,771.5	270.0	-446.2	312.0	12.00	11.98	0.69
13,000.0	82.15	359.21	12,775.5	294.7	-446.6	336.6	12.00	11.98	0.67
13,025.0	85.15	359.38	12,778.3	319.5	-446.9	361.3	12.00	11.98	0.67
13,050.0	88.14	359.55	12,779.7	344.5	-447.1	386.2	12.00	11.98	0.66
13,065.5	90.00	359.65	12,780.0	360.0	-447.2	401.6	12.00	11.98	0.66
13,100.0	90.00	359.65	12,780.0	394.5	-447.4	436.0	0.00	0.00	0.00
13,200.0	90.00	359.65	12,780.0	494.5	-448.1	535.6	0.00	0.00	0.00
13,300.0	90.00	359.65	12,780.0	594.5	-448.7	635.2	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Ruby 2 State Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3330.0usft (H&P 651)
MD Reference: KB = 25 @ 3330.0usft (H&P 651)
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)
13,400.0	90.00	359.65	12,780.0	694.5	-449.3	734.8	0.00	0.00	0.00
13,500.0	90.00	359.65	12,780.0	794.5	-449.9	834.3	0.00	0.00	0.00
13,600.0	90.00	359.65	12,780.0	894.5	-450.5	933.9	0.00	0.00	0.00
13,700.0	90.00	359.65	12,780.0	994.5	-451.1	1,033.5	0.00	0.00	0.00
13,800.0	90.00	359.65	12,780.0	1,094.5	-451.7	1,133.1	0.00	0.00	0.00
13,900.0	90.00	359.65	12,780.0	1,194.5	-452.4	1,232.7	0.00	0.00	0.00
14,000.0	90.00	359.65	12,780.0	1,294.5	-453.0	1,332.3	0.00	0.00	0.00
14,100.0	90.00	359.65	12,780.0	1,394.5	-453.6	1,431.9	0.00	0.00	0.00
14,200.0	90.00	359.65	12,780.0	1,494.5	-454.2	1,531.5	0.00	0.00	0.00
14,300.0	90.00	359.65	12,780.0	1,594.5	-454.8	1,631.0	0.00	0.00	0.00
14,400.0	90.00	359.65	12,780.0	1,694.5	-455.4	1,730.6	0.00	0.00	0.00
14,500.0	90.00	359.65	12,780.0	1,794.5	-456.0	1,830.2	0.00	0.00	0.00
14,600.0	90.00	359.65	12,780.0	1,894.5	-456.7	1,929.8	0.00	0.00	0.00
14,700.0	90.00	359.65	12,780.0	1,994.5	-457.3	2,029.4	0.00	0.00	0.00
14,800.0	90.00	359.65	12,780.0	2,094.5	-457.9	2,129.0	0.00	0.00	0.00
14,900.0	90.00	359.65	12,780.0	2,194.5	-458.5	2,228.6	0.00	0.00	0.00
15,000.0	90.00	359.65	12,780.0	2,294.5	-459.1	2,328.1	0.00	0.00	0.00
15,100.0	90.00	359.65	12,780.0	2,394.4	-459.7	2,427.7	0.00	0.00	0.00
15,200.0	90.00	359.65	12,780.0	2,494.4	-460.3	2,527.3	0.00	0.00	0.00
15,300.0	90.00	359.65	12,780.0	2,594.4	-461.0	2,626.9	0.00	0.00	0.00
15,400.0	90.00	359.65	12,780.0	2,694.4	-461.6	2,726.5	0.00	0.00	0.00
15,500.0	90.00	359.65	12,780.0	2,794.4	-462.2	2,826.1	0.00	0.00	0.00
15,600.0	90.00	359.65	12,780.0	2,894.4	-462.8	2,925.7	0.00	0.00	0.00
15,700.0	90.00	359.65	12,780.0	2,994.4	-463.4	3,025.3	0.00	0.00	0.00
15,800.0	90.00	359.65	12,780.0	3,094.4	-464.0	3,124.8	0.00	0.00	0.00
15,900.0	90.00	359.65	12,780.0	3,194.4	-464.7	3,224.4	0.00	0.00	0.00
16,000.0	90.00	359.65	12,780.0	3,294.4	-465.3	3,324.0	0.00	0.00	0.00
16,100.0	90.00	359.65	12,780.0	3,394.4	-465.9	3,423.6	0.00	0.00	0.00
16,200.0	90.00	359.65	12,780.0	3,494.4	-466.5	3,523.2	0.00	0.00	0.00
16,300.0	90.00	359.65	12,780.0	3,594.4	-467.1	3,622.8	0.00	0.00	0.00
16,400.0	90.00	359.65	12,780.0	3,694.4	-467.7	3,722.4	0.00	0.00	0.00
16,500.0	90.00	359.65	12,780.0	3,794.4	-468.3	3,822.0	0.00	0.00	0.00
16,600.0	90.00	359.65	12,780.0	3,894.4	-469.0	3,921.5	0.00	0.00	0.00
16,700.0	90.00	359.65	12,780.0	3,994.4	-469.6	4,021.1	0.00	0.00	0.00
16,800.0	90.00	359.65	12,780.0	4,094.4	-470.2	4,120.7	0.00	0.00	0.00
16,900.0	90.00	359.65	12,780.0	4,194.4	-470.8	4,220.3	0.00	0.00	0.00
17,000.0	90.00	359.65	12,780.0	4,294.4	-471.4	4,319.9	0.00	0.00	0.00
17,100.0	90.00	359.65	12,780.0	4,394.4	-472.0	4,419.5	0.00	0.00	0.00
17,200.0	90.00	359.65	12,780.0	4,494.4	-472.6	4,519.1	0.00	0.00	0.00
17,300.0	90.00	359.65	12,780.0	4,594.4	-473.3	4,618.6	0.00	0.00	0.00
17,400.0	90.00	359.65	12,780.0	4,694.4	-473.9	4,718.2	0.00	0.00	0.00
17,500.0	90.00	359.65	12,780.0	4,794.4	-474.5	4,817.8	0.00	0.00	0.00
17,583.6	90.00	359.65	12,780.0	4,878.0	-475.0	4,901.1	0.00	0.00	0.00

PBHL(Ruby 2 State Com #702H)



EOG Resources, Inc.

Planning Report

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Local Co-ordinate Reference: Well #702H
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MD Reference: KB = 25 @ 3330.0usft (H&P 651)
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(Ruby 2 State Com : - plan misses target center by 40.2usft at 12875.1usft MD (12742.6 TVD, 174.7 N, -444.0 E) - Point	0.00	0.00	12,780.0	160.0	-446.0	388,861.00	775,077.00	32° 3' 57.539 N	103° 26' 43.268 W
PBHL(Ruby 2 State Con - plan hits target center - Point	0.00	0.00	12,780.0	4,878.0	-475.0	393,579.00	775,048.00	32° 4' 44.228 N	103° 26' 43.153 W