



Lea County, NM (NAD 27 NME)

Ruby 2 Fed Com #704H

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

WELL DETAILS: #704H

Ground Level: 3294.0
KB = 25' @ 3319.0usft
Northing: 393596.00 Easting: 776119.00 Latitude: 32° 4' 44.309 N Longitude: 103° 26' 30.705 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	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4132.2	1.32	333.31	4132.2	1.4	-0.7	1.00	333.31	-1.4	
4	12189.8	1.32	333.31	12187.7	167.5	-84.2	0.00	0.00	-167.4	
5	12946.4	89.60	179.52	12675.0	-306.6	-85.1	12.00	-153.79	306.6	
6	22751.4	89.60	179.52	12743.5	-10111.0	-3.0	0.00	0.00	10111.0	PBHL (Ruby 2 Fed Com #704H)



Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.45°
Magnetic Field
Strength: 47907.3nT
Dip Angle: 59.96°
Date: 1/23/2017
Model: IGRF2015

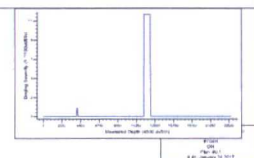
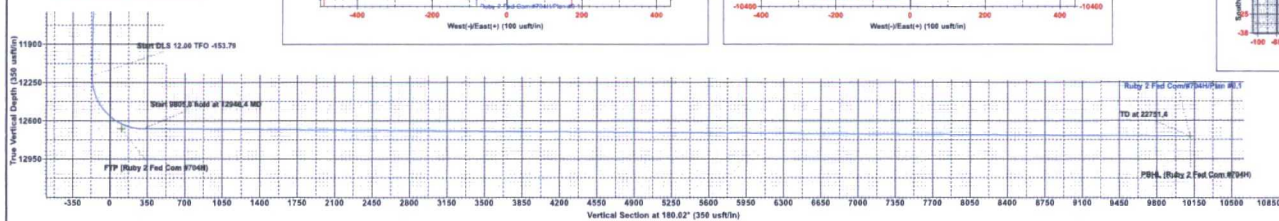
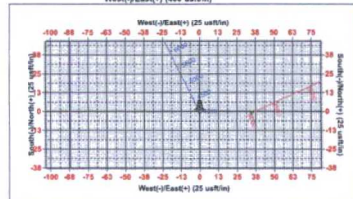
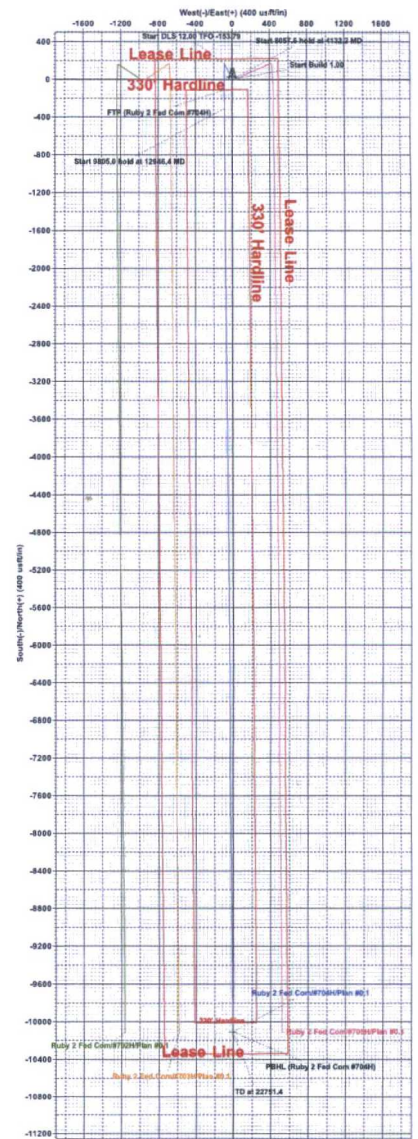
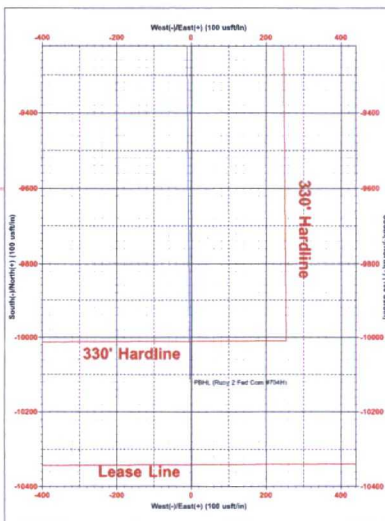
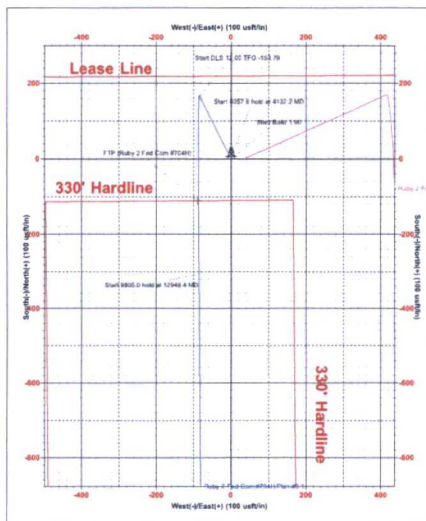
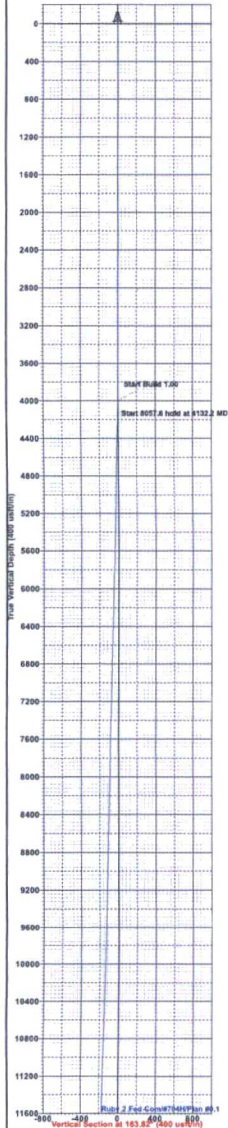
To convert a Magnetic Direction to a Grid Direction, Add 6.45°
To convert a Magnetic Direction to a True Direction, Add 6.93° East
To convert a True Direction to a Grid Direction, Subtract 0.47°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Ruby 2 Fed Com #704H)	12743.5	-10111.0	-3.0	383485.00	776116.00
FTP (Ruby 2 Fed Com #704H)	12675.0	-111.0	-88.0	393485.00	776031.00



HOBBS OCD
JUL 12 2017
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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ruby 2 Fed Com

#704H

OH

Plan: Plan #0.1

Standard Planning Report

24 January, 2017



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 Fed Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3319.0usft
MD Reference: KB = 25' @ 3319.0usft
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 Fed Com

Site Position: **Northing:** 393,590.00 usft **Latitude:** 32° 4' 44.329 N
From: Map **Easting:** 775,148.00 usft **Longitude:** 103° 26' 41.990 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.47 °

Well #704H

Well Position **+N/-S** 6.0 usft **Northing:** 393,596.00 usft **Latitude:** 32° 4' 44.309 N
+E/-W 971.0 usft **Easting:** 776,119.00 usft **Longitude:** 103° 26' 30.705 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 0.0 usft **Ground Level:** 3,294.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/23/2017	6.93	59.96	47,907

Design Plan #0.1

Audit Notes:

Version: **Phase:** PLAN **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.02

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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,132.2	1.32	333.31	4,132.2	1.4	-0.7	1.00	1.00	0.00	333.31	
12,189.8	1.32	333.31	12,187.7	167.5	-84.2	0.00	0.00	0.00	0.00	
12,946.4	89.60	179.52	12,675.0	-306.6	-85.1	12.00	11.67	-20.33	-153.79	
22,751.4	89.60	179.52	12,743.4	-10,111.0	-3.0	0.00	0.00	0.00	0.00	PBHL (Ruby 2 Fed Co



EOG Resources, Inc.

Planning Report

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 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Ruby 2 Fed Com
 Well: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well #704H
 KB = 25' @ 3319.0usft
 KB = 25' @ 3319.0usft
 Grid
 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	1.00	333.31	4,100.0	0.8	-0.4	-0.8	1.00	1.00	0.00
4,132.2	1.32	333.31	4,132.2	1.4	-0.7	-1.4	1.00	1.00	0.00
4,200.0	1.32	333.31	4,200.0	2.8	-1.4	-2.8	0.00	0.00	0.00
4,300.0	1.32	333.31	4,299.9	4.8	-2.4	-4.8	0.00	0.00	0.00
4,400.0	1.32	333.31	4,399.9	6.9	-3.5	-6.9	0.00	0.00	0.00
4,500.0	1.32	333.31	4,499.9	8.9	-4.5	-8.9	0.00	0.00	0.00
4,600.0	1.32	333.31	4,599.9	11.0	-5.5	-11.0	0.00	0.00	0.00
4,700.0	1.32	333.31	4,699.8	13.1	-6.6	-13.1	0.00	0.00	0.00
4,800.0	1.32	333.31	4,799.8	15.1	-7.6	-15.1	0.00	0.00	0.00
4,900.0	1.32	333.31	4,899.8	17.2	-8.6	-17.2	0.00	0.00	0.00
5,000.0	1.32	333.31	4,999.8	19.3	-9.7	-19.2	0.00	0.00	0.00
5,100.0	1.32	333.31	5,099.7	21.3	-10.7	-21.3	0.00	0.00	0.00
5,200.0	1.32	333.31	5,199.7	23.4	-11.7	-23.4	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 Fed Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
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Survey Calculation Method:
Well #704H
KB = 25' @ 3319.0usft
KB = 25' @ 3319.0usft
Grid
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)
5,300.0	1.32	333.31	5,299.7	25.4	-12.8	-25.4	0.00	0.00	0.00
5,400.0	1.32	333.31	5,399.7	27.5	-13.8	-27.5	0.00	0.00	0.00
5,500.0	1.32	333.31	5,499.6	29.6	-14.9	-29.6	0.00	0.00	0.00
5,600.0	1.32	333.31	5,599.6	31.6	-15.9	-31.6	0.00	0.00	0.00
5,700.0	1.32	333.31	5,699.6	33.7	-16.9	-33.7	0.00	0.00	0.00
5,800.0	1.32	333.31	5,799.5	35.7	-18.0	-35.7	0.00	0.00	0.00
5,900.0	1.32	333.31	5,899.5	37.8	-19.0	-37.8	0.00	0.00	0.00
6,000.0	1.32	333.31	5,999.5	39.9	-20.0	-39.9	0.00	0.00	0.00
6,100.0	1.32	333.31	6,099.5	41.9	-21.1	-41.9	0.00	0.00	0.00
6,200.0	1.32	333.31	6,199.4	44.0	-22.1	-44.0	0.00	0.00	0.00
6,300.0	1.32	333.31	6,299.4	46.1	-23.1	-46.0	0.00	0.00	0.00
6,400.0	1.32	333.31	6,399.4	48.1	-24.2	-48.1	0.00	0.00	0.00
6,500.0	1.32	333.31	6,499.4	50.2	-25.2	-50.2	0.00	0.00	0.00
6,600.0	1.32	333.31	6,599.3	52.2	-26.3	-52.2	0.00	0.00	0.00
6,700.0	1.32	333.31	6,699.3	54.3	-27.3	-54.3	0.00	0.00	0.00
6,800.0	1.32	333.31	6,799.3	56.4	-28.3	-56.4	0.00	0.00	0.00
6,900.0	1.32	333.31	6,899.3	58.4	-29.4	-58.4	0.00	0.00	0.00
7,000.0	1.32	333.31	6,999.2	60.5	-30.4	-60.5	0.00	0.00	0.00
7,100.0	1.32	333.31	7,099.2	62.5	-31.4	-62.5	0.00	0.00	0.00
7,200.0	1.32	333.31	7,199.2	64.6	-32.5	-64.6	0.00	0.00	0.00
7,300.0	1.32	333.31	7,299.1	66.7	-33.5	-66.7	0.00	0.00	0.00
7,400.0	1.32	333.31	7,399.1	68.7	-34.5	-68.7	0.00	0.00	0.00
7,500.0	1.32	333.31	7,499.1	70.8	-35.6	-70.8	0.00	0.00	0.00
7,600.0	1.32	333.31	7,599.1	72.9	-36.6	-72.8	0.00	0.00	0.00
7,700.0	1.32	333.31	7,699.0	74.9	-37.7	-74.9	0.00	0.00	0.00
7,800.0	1.32	333.31	7,799.0	77.0	-38.7	-77.0	0.00	0.00	0.00
7,900.0	1.32	333.31	7,899.0	79.0	-39.7	-79.0	0.00	0.00	0.00
8,000.0	1.32	333.31	7,999.0	81.1	-40.8	-81.1	0.00	0.00	0.00
8,100.0	1.32	333.31	8,098.9	83.2	-41.8	-83.1	0.00	0.00	0.00
8,200.0	1.32	333.31	8,198.9	85.2	-42.8	-85.2	0.00	0.00	0.00
8,300.0	1.32	333.31	8,298.9	87.3	-43.9	-87.3	0.00	0.00	0.00
8,400.0	1.32	333.31	8,398.9	89.3	-44.9	-89.3	0.00	0.00	0.00
8,500.0	1.32	333.31	8,498.8	91.4	-45.9	-91.4	0.00	0.00	0.00
8,600.0	1.32	333.31	8,598.8	93.5	-47.0	-93.5	0.00	0.00	0.00
8,700.0	1.32	333.31	8,698.8	95.5	-48.0	-95.5	0.00	0.00	0.00
8,800.0	1.32	333.31	8,798.7	97.6	-49.1	-97.6	0.00	0.00	0.00
8,900.0	1.32	333.31	8,898.7	99.7	-50.1	-99.6	0.00	0.00	0.00
9,000.0	1.32	333.31	8,998.7	101.7	-51.1	-101.7	0.00	0.00	0.00
9,100.0	1.32	333.31	9,098.7	103.8	-52.2	-103.8	0.00	0.00	0.00
9,200.0	1.32	333.31	9,198.6	105.8	-53.2	-105.8	0.00	0.00	0.00
9,300.0	1.32	333.31	9,298.6	107.9	-54.2	-107.9	0.00	0.00	0.00
9,400.0	1.32	333.31	9,398.6	110.0	-55.3	-109.9	0.00	0.00	0.00
9,500.0	1.32	333.31	9,498.6	112.0	-56.3	-112.0	0.00	0.00	0.00
9,600.0	1.32	333.31	9,598.5	114.1	-57.3	-114.1	0.00	0.00	0.00
9,700.0	1.32	333.31	9,698.5	116.1	-58.4	-116.1	0.00	0.00	0.00
9,800.0	1.32	333.31	9,798.5	118.2	-59.4	-118.2	0.00	0.00	0.00
9,900.0	1.32	333.31	9,898.5	120.3	-60.5	-120.2	0.00	0.00	0.00
10,000.0	1.32	333.31	9,998.4	122.3	-61.5	-122.3	0.00	0.00	0.00
10,100.0	1.32	333.31	10,098.4	124.4	-62.5	-124.4	0.00	0.00	0.00
10,200.0	1.32	333.31	10,198.4	126.5	-63.6	-126.4	0.00	0.00	0.00
10,300.0	1.32	333.31	10,298.3	128.5	-64.6	-128.5	0.00	0.00	0.00
10,400.0	1.32	333.31	10,398.3	130.6	-65.6	-130.6	0.00	0.00	0.00
10,500.0	1.32	333.31	10,498.3	132.6	-66.7	-132.6	0.00	0.00	0.00
10,600.0	1.32	333.31	10,598.3	134.7	-67.7	-134.7	0.00	0.00	0.00



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Planning Report

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 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Ruby 2 Fed Com
 Well: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well #704H
 KB = 25' @ 3319.0usft
 KB = 25' @ 3319.0usft
 Grid
 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)
10,700.0	1.32	333.31	10,698.2	136.8	-68.7	-136.7	0.00	0.00	0.00
10,800.0	1.32	333.31	10,798.2	138.8	-69.8	-138.8	0.00	0.00	0.00
10,900.0	1.32	333.31	10,898.2	140.9	-70.8	-140.9	0.00	0.00	0.00
11,000.0	1.32	333.31	10,998.2	142.9	-71.8	-142.9	0.00	0.00	0.00
11,100.0	1.32	333.31	11,098.1	145.0	-72.9	-145.0	0.00	0.00	0.00
11,200.0	1.32	333.31	11,198.1	147.1	-73.9	-147.0	0.00	0.00	0.00
11,300.0	1.32	333.31	11,298.1	149.1	-75.0	-149.1	0.00	0.00	0.00
11,400.0	1.32	333.31	11,398.1	151.2	-76.0	-151.2	0.00	0.00	0.00
11,500.0	1.32	333.31	11,498.0	153.2	-77.0	-153.2	0.00	0.00	0.00
11,600.0	1.32	333.31	11,598.0	155.3	-78.1	-155.3	0.00	0.00	0.00
11,700.0	1.32	333.31	11,698.0	157.4	-79.1	-157.3	0.00	0.00	0.00
11,800.0	1.32	333.31	11,797.9	159.4	-80.1	-159.4	0.00	0.00	0.00
11,900.0	1.32	333.31	11,897.9	161.5	-81.2	-161.5	0.00	0.00	0.00
12,000.0	1.32	333.31	11,997.9	163.6	-82.2	-163.5	0.00	0.00	0.00
12,100.0	1.32	333.31	12,097.9	165.6	-83.2	-165.6	0.00	0.00	0.00
12,189.8	1.32	333.31	12,187.7	167.5	-84.2	-167.4	0.00	0.00	0.00
12,200.0	0.58	266.32	12,197.8	167.6	-84.3	-167.5	12.00	-7.26	-659.60
12,225.0	3.09	190.40	12,222.8	166.9	-84.5	-166.9	12.00	10.01	-303.67
12,250.0	6.06	185.02	12,247.7	164.9	-84.8	-164.9	12.00	11.89	-21.52
12,275.0	9.05	183.18	12,272.5	161.6	-85.0	-161.6	12.00	11.96	-7.36
12,300.0	12.05	182.25	12,297.1	157.1	-85.2	-157.0	12.00	11.98	-3.72
12,325.0	15.04	181.69	12,321.4	151.2	-85.4	-151.2	12.00	11.99	-2.26
12,350.0	18.04	181.31	12,345.4	144.1	-85.6	-144.1	12.00	11.99	-1.52
12,375.0	21.04	181.03	12,368.9	135.7	-85.8	-135.7	12.00	11.99	-1.10
12,400.0	24.04	180.82	12,392.0	126.2	-85.9	-126.1	12.00	12.00	-0.84
12,425.0	27.04	180.66	12,414.6	115.4	-86.1	-115.4	12.00	12.00	-0.66
12,450.0	30.04	180.53	12,436.5	103.5	-86.2	-103.4	12.00	12.00	-0.54
12,475.0	33.04	180.41	12,457.8	90.4	-86.3	-90.4	12.00	12.00	-0.45
12,500.0	36.04	180.32	12,478.4	76.2	-86.4	-76.2	12.00	12.00	-0.38
12,525.0	39.04	180.24	12,498.2	61.0	-86.4	-60.9	12.00	12.00	-0.33
12,550.0	42.04	180.16	12,517.2	44.7	-86.5	-44.7	12.00	12.00	-0.29
12,575.0	45.04	180.10	12,535.4	27.5	-86.5	-27.5	12.00	12.00	-0.26
12,600.0	48.04	180.04	12,552.6	9.4	-86.6	-9.3	12.00	12.00	-0.23
12,625.0	51.04	179.99	12,568.8	-9.7	-86.6	9.7	12.00	12.00	-0.21
12,650.0	54.03	179.94	12,584.0	-29.5	-86.6	29.5	12.00	12.00	-0.19
12,675.0	57.03	179.89	12,598.1	-50.1	-86.5	50.1	12.00	12.00	-0.18
12,700.0	60.03	179.85	12,611.2	-71.4	-86.5	71.4	12.00	12.00	-0.17
12,725.0	63.03	179.81	12,623.1	-93.4	-86.4	93.4	12.00	12.00	-0.16
12,750.0	66.03	179.78	12,633.8	-116.0	-86.3	116.0	12.00	12.00	-0.15
12,761.1	67.37	179.76	12,638.2	-126.2	-86.3	126.2	12.00	12.00	-0.14
FTP (Ruby 2 Fed Com #704H)									
12,775.0	69.03	179.74	12,643.4	-139.1	-86.2	139.1	12.00	12.00	-0.14
12,800.0	72.03	179.71	12,651.7	-162.6	-86.1	162.7	12.00	12.00	-0.14
12,825.0	75.03	179.67	12,658.8	-186.6	-86.0	186.6	12.00	12.00	-0.13
12,850.0	78.03	179.64	12,664.6	-210.9	-85.8	210.9	12.00	12.00	-0.13
12,875.0	81.03	179.61	12,669.2	-235.5	-85.7	235.5	12.00	12.00	-0.13
12,900.0	84.03	179.58	12,672.4	-260.3	-85.5	260.3	12.00	12.00	-0.12
12,925.0	87.03	179.55	12,674.4	-285.2	-85.3	285.2	12.00	12.00	-0.12
12,946.4	89.60	179.52	12,675.0	-306.6	-85.1	306.6	12.00	12.00	-0.12
13,000.0	89.60	179.52	12,675.4	-360.2	-84.7	360.2	0.00	0.00	0.00
13,100.0	89.60	179.52	12,676.1	-460.2	-83.9	460.2	0.00	0.00	0.00
13,200.0	89.60	179.52	12,676.8	-560.2	-83.0	560.2	0.00	0.00	0.00
13,300.0	89.60	179.52	12,677.5	-660.2	-82.2	660.2	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3319.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25' @ 3319.0usft
Site:	Ruby 2 Fed Com	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	89.60	179.52	12,678.2	-760.2	-81.3	760.2	0.00	0.00	0.00
13,500.0	89.60	179.52	12,678.9	-860.2	-80.5	860.2	0.00	0.00	0.00
13,600.0	89.60	179.52	12,679.6	-960.1	-79.7	960.2	0.00	0.00	0.00
13,700.0	89.60	179.52	12,680.3	-1,060.1	-78.8	1,060.2	0.00	0.00	0.00
13,800.0	89.60	179.52	12,681.0	-1,160.1	-78.0	1,160.2	0.00	0.00	0.00
13,900.0	89.60	179.52	12,681.7	-1,260.1	-77.2	1,260.2	0.00	0.00	0.00
14,000.0	89.60	179.52	12,682.4	-1,360.1	-76.3	1,360.1	0.00	0.00	0.00
14,100.0	89.60	179.52	12,683.1	-1,460.1	-75.5	1,460.1	0.00	0.00	0.00
14,200.0	89.60	179.52	12,683.8	-1,560.1	-74.6	1,560.1	0.00	0.00	0.00
14,300.0	89.60	179.52	12,684.4	-1,660.1	-73.8	1,660.1	0.00	0.00	0.00
14,400.0	89.60	179.52	12,685.1	-1,760.1	-73.0	1,760.1	0.00	0.00	0.00
14,500.0	89.60	179.52	12,685.8	-1,860.1	-72.1	1,860.1	0.00	0.00	0.00
14,600.0	89.60	179.52	12,686.5	-1,960.1	-71.3	1,960.1	0.00	0.00	0.00
14,700.0	89.60	179.52	12,687.2	-2,060.1	-70.4	2,060.1	0.00	0.00	0.00
14,800.0	89.60	179.52	12,687.9	-2,160.1	-69.6	2,160.1	0.00	0.00	0.00
14,900.0	89.60	179.52	12,688.6	-2,260.1	-68.8	2,260.1	0.00	0.00	0.00
15,000.0	89.60	179.52	12,689.3	-2,360.1	-67.9	2,360.1	0.00	0.00	0.00
15,100.0	89.60	179.52	12,690.0	-2,460.1	-67.1	2,460.1	0.00	0.00	0.00
15,200.0	89.60	179.52	12,690.7	-2,560.1	-66.3	2,560.1	0.00	0.00	0.00
15,300.0	89.60	179.52	12,691.4	-2,660.0	-65.4	2,660.1	0.00	0.00	0.00
15,400.0	89.60	179.52	12,692.1	-2,760.0	-64.6	2,760.1	0.00	0.00	0.00
15,500.0	89.60	179.52	12,692.8	-2,860.0	-63.7	2,860.1	0.00	0.00	0.00
15,600.0	89.60	179.52	12,693.5	-2,960.0	-62.9	2,960.0	0.00	0.00	0.00
15,700.0	89.60	179.52	12,694.2	-3,060.0	-62.1	3,060.0	0.00	0.00	0.00
15,800.0	89.60	179.52	12,694.9	-3,160.0	-61.2	3,160.0	0.00	0.00	0.00
15,900.0	89.60	179.52	12,695.6	-3,260.0	-60.4	3,260.0	0.00	0.00	0.00
16,000.0	89.60	179.52	12,696.3	-3,360.0	-59.6	3,360.0	0.00	0.00	0.00
16,100.0	89.60	179.52	12,697.0	-3,460.0	-58.7	3,460.0	0.00	0.00	0.00
16,200.0	89.60	179.52	12,697.7	-3,560.0	-57.9	3,560.0	0.00	0.00	0.00
16,300.0	89.60	179.52	12,698.4	-3,660.0	-57.0	3,660.0	0.00	0.00	0.00
16,400.0	89.60	179.52	12,699.1	-3,760.0	-56.2	3,760.0	0.00	0.00	0.00
16,500.0	89.60	179.52	12,699.8	-3,860.0	-55.4	3,860.0	0.00	0.00	0.00
16,600.0	89.60	179.52	12,700.5	-3,960.0	-54.5	3,960.0	0.00	0.00	0.00
16,700.0	89.60	179.52	12,701.2	-4,060.0	-53.7	4,060.0	0.00	0.00	0.00
16,800.0	89.60	179.52	12,701.9	-4,160.0	-52.9	4,160.0	0.00	0.00	0.00
16,900.0	89.60	179.52	12,702.6	-4,260.0	-52.0	4,260.0	0.00	0.00	0.00
17,000.0	89.60	179.52	12,703.3	-4,359.9	-51.2	4,360.0	0.00	0.00	0.00
17,100.0	89.60	179.52	12,704.0	-4,459.9	-50.3	4,460.0	0.00	0.00	0.00
17,200.0	89.60	179.52	12,704.7	-4,559.9	-49.5	4,559.9	0.00	0.00	0.00
17,300.0	89.60	179.52	12,705.4	-4,659.9	-48.7	4,659.9	0.00	0.00	0.00
17,400.0	89.60	179.52	12,706.1	-4,759.9	-47.8	4,759.9	0.00	0.00	0.00
17,500.0	89.60	179.52	12,706.8	-4,859.9	-47.0	4,859.9	0.00	0.00	0.00
17,600.0	89.60	179.52	12,707.5	-4,959.9	-46.2	4,959.9	0.00	0.00	0.00
17,700.0	89.60	179.52	12,708.2	-5,059.9	-45.3	5,059.9	0.00	0.00	0.00
17,800.0	89.60	179.52	12,708.9	-5,159.9	-44.5	5,159.9	0.00	0.00	0.00
17,900.0	89.60	179.52	12,709.6	-5,259.9	-43.6	5,259.9	0.00	0.00	0.00
18,000.0	89.60	179.52	12,710.3	-5,359.9	-42.8	5,359.9	0.00	0.00	0.00
18,100.0	89.60	179.52	12,711.0	-5,459.9	-42.0	5,459.9	0.00	0.00	0.00
18,200.0	89.60	179.52	12,711.7	-5,559.9	-41.1	5,559.9	0.00	0.00	0.00
18,300.0	89.60	179.52	12,712.4	-5,659.9	-40.3	5,659.9	0.00	0.00	0.00
18,400.0	89.60	179.52	12,713.1	-5,759.9	-39.5	5,759.9	0.00	0.00	0.00
18,500.0	89.60	179.52	12,713.8	-5,859.9	-38.6	5,859.9	0.00	0.00	0.00
18,600.0	89.60	179.52	12,714.5	-5,959.9	-37.8	5,959.9	0.00	0.00	0.00
18,700.0	89.60	179.52	12,715.2	-6,059.8	-36.9	6,059.9	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 Fed Com
 Well: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well #704H
 KB = 25' @ 3319.0usft
 KB = 25' @ 3319.0usft
 Grid
 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)
18,800.0	89.60	179.52	12,715.9	-6,159.8	-36.1	6,159.9	0.00	0.00	0.00
18,900.0	89.60	179.52	12,716.6	-6,259.8	-35.3	6,259.8	0.00	0.00	0.00
19,000.0	89.60	179.52	12,717.3	-6,359.8	-34.4	6,359.8	0.00	0.00	0.00
19,100.0	89.60	179.52	12,718.0	-6,459.8	-33.6	6,459.8	0.00	0.00	0.00
19,200.0	89.60	179.52	12,718.7	-6,559.8	-32.8	6,559.8	0.00	0.00	0.00
19,300.0	89.60	179.52	12,719.4	-6,659.8	-31.9	6,659.8	0.00	0.00	0.00
19,400.0	89.60	179.52	12,720.1	-6,759.8	-31.1	6,759.8	0.00	0.00	0.00
19,500.0	89.60	179.52	12,720.8	-6,859.8	-30.2	6,859.8	0.00	0.00	0.00
19,600.0	89.60	179.52	12,721.4	-6,959.8	-29.4	6,959.8	0.00	0.00	0.00
19,700.0	89.60	179.52	12,722.1	-7,059.8	-28.6	7,059.8	0.00	0.00	0.00
19,800.0	89.60	179.52	12,722.8	-7,159.8	-27.7	7,159.8	0.00	0.00	0.00
19,900.0	89.60	179.52	12,723.5	-7,259.8	-26.9	7,259.8	0.00	0.00	0.00
20,000.0	89.60	179.52	12,724.2	-7,359.8	-26.0	7,359.8	0.00	0.00	0.00
20,100.0	89.60	179.52	12,724.9	-7,459.8	-25.2	7,459.8	0.00	0.00	0.00
20,200.0	89.60	179.52	12,725.6	-7,559.8	-24.4	7,559.8	0.00	0.00	0.00
20,300.0	89.60	179.52	12,726.3	-7,659.8	-23.5	7,659.8	0.00	0.00	0.00
20,400.0	89.60	179.52	12,727.0	-7,759.7	-22.7	7,759.8	0.00	0.00	0.00
20,500.0	89.60	179.52	12,727.7	-7,859.7	-21.9	7,859.7	0.00	0.00	0.00
20,600.0	89.60	179.52	12,728.4	-7,959.7	-21.0	7,959.7	0.00	0.00	0.00
20,700.0	89.60	179.52	12,729.1	-8,059.7	-20.2	8,059.7	0.00	0.00	0.00
20,800.0	89.60	179.52	12,729.8	-8,159.7	-19.3	8,159.7	0.00	0.00	0.00
20,900.0	89.60	179.52	12,730.5	-8,259.7	-18.5	8,259.7	0.00	0.00	0.00
21,000.0	89.60	179.52	12,731.2	-8,359.7	-17.7	8,359.7	0.00	0.00	0.00
21,100.0	89.60	179.52	12,731.9	-8,459.7	-16.8	8,459.7	0.00	0.00	0.00
21,200.0	89.60	179.52	12,732.6	-8,559.7	-16.0	8,559.7	0.00	0.00	0.00
21,300.0	89.60	179.52	12,733.3	-8,659.7	-15.2	8,659.7	0.00	0.00	0.00
21,400.0	89.60	179.52	12,734.0	-8,759.7	-14.3	8,759.7	0.00	0.00	0.00
21,500.0	89.60	179.52	12,734.7	-8,859.7	-13.5	8,859.7	0.00	0.00	0.00
21,600.0	89.60	179.52	12,735.4	-8,959.7	-12.6	8,959.7	0.00	0.00	0.00
21,700.0	89.60	179.52	12,736.1	-9,059.7	-11.8	9,059.7	0.00	0.00	0.00
21,800.0	89.60	179.52	12,736.8	-9,159.7	-11.0	9,159.7	0.00	0.00	0.00
21,900.0	89.60	179.52	12,737.5	-9,259.7	-10.1	9,259.7	0.00	0.00	0.00
22,000.0	89.60	179.52	12,738.2	-9,359.6	-9.3	9,359.7	0.00	0.00	0.00
22,100.0	89.60	179.52	12,738.9	-9,459.6	-8.5	9,459.6	0.00	0.00	0.00
22,200.0	89.60	179.52	12,739.6	-9,559.6	-7.6	9,559.6	0.00	0.00	0.00
22,300.0	89.60	179.52	12,740.3	-9,659.6	-6.8	9,659.6	0.00	0.00	0.00
22,400.0	89.60	179.52	12,741.0	-9,759.6	-5.9	9,759.6	0.00	0.00	0.00
22,500.0	89.60	179.52	12,741.7	-9,859.6	-5.1	9,859.6	0.00	0.00	0.00
22,600.0	89.60	179.52	12,742.4	-9,959.6	-4.3	9,959.6	0.00	0.00	0.00
22,700.0	89.60	179.52	12,743.1	-10,059.6	-3.4	10,059.6	0.00	0.00	0.00
22,751.4	89.60	179.52	12,743.4	-10,111.0	-3.0	10,111.0	0.00	0.00	0.00

PBHL (Ruby 2 Fed Com #704H)



Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Ruby 2 Fed Com
 Well: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3319.0usft
 MD Reference: KB = 25' @ 3319.0usft
 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 Fed Com # - plan misses target center by 39.8usft at 12761.1usft MD (12638.2 TVD, -126.2 N, -86.3 E) - Point	0.00	0.00	12,675.0	-111.0	-88.0	393,485.00	776,031.00	32° 4' 43.218 N	103° 26' 31.738 W
PBHL (Ruby 2 Fed Com - plan hits target center - Point	0.00	0.00	12,743.4	-10,111.0	-3.0	383,485.00	776,116.00	32° 3' 4.257 N	103° 26' 31.710 W