



Lea County, NM (NAD 83 NME)

Ruby 2 Fed Com #702H

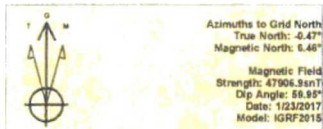
Plan #0.2

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: 3304.0
KB = 25' @ 3329.0usft
Northing: 393647.00 Easting: 816335.00 Latitude: 32° 4' 44.776 N Longitude: 103° 26' 43.667 W



To convert a Magnetic Direction to a Grid Direction, Add 6.48°
To convert a Magnetic Direction to a True Direction, Add 6.90°
To convert a True Direction to a Grid Direction, Subtract 6.47°

SECTION DETAILS

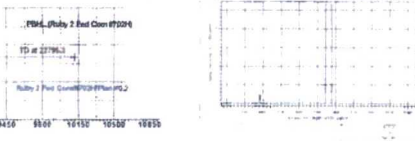
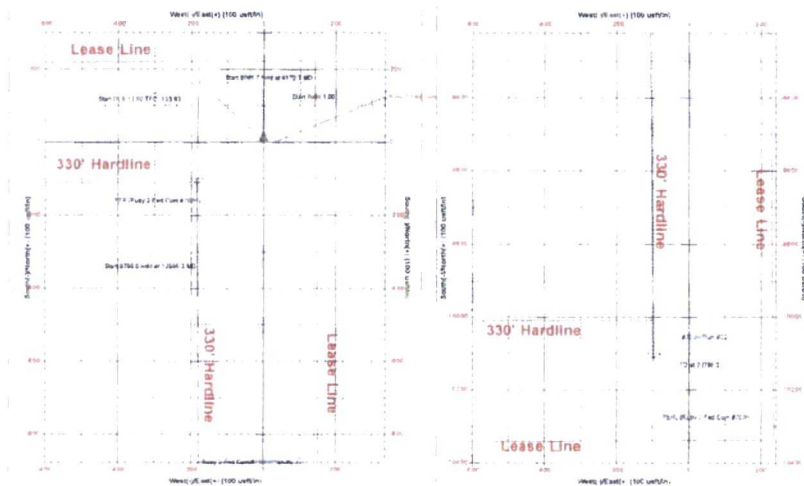
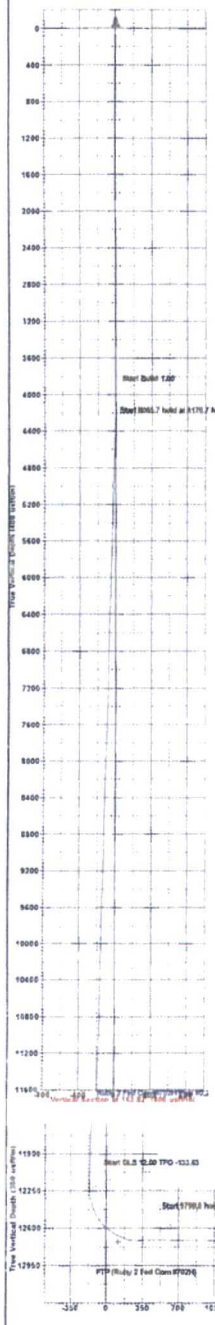
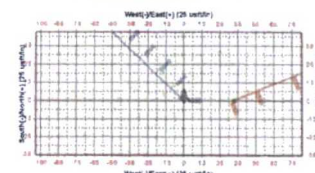
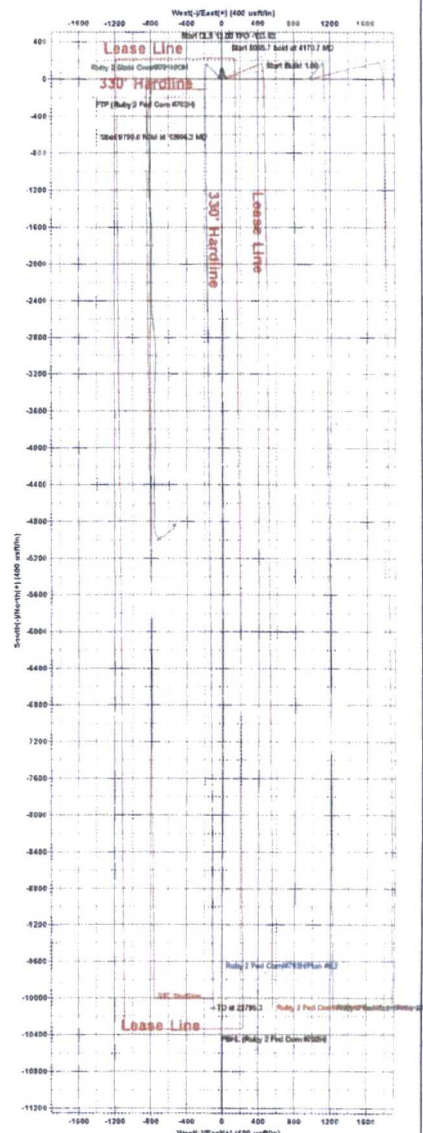
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4170.7	1.71	313.15	4170.7	1.7	-1.9	1.00	313.15	-1.7	
4	12236.4	1.71	313.15	12232.8	166.1	-177.2	0.00	0.00	-164.3	
5	12996.3	90.00	179.50	12720.0	-311.4	-183.5	12.00	-133.63	313.1	
6	22795.3	90.00	179.50	12720.0	-10110.0	-98.0	0.00	0.00	10110.5	PBHL (Ruby 2 Fed Com #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Ruby 2 Fed Com #702H)	12720.0	-10110.0	-98.0	393637.00	816327.00
FTP (Ruby 2 Fed Com #702H)	12730.0	-111.0	-185.0	393636.00	816150.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ruby 2 Fed Com

#702H

OH

Plan: Plan #0.2

Standard Planning Report

12 July, 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: Ruby 2 Fed Com
 Well: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25' @ 3329.0usft
 MD Reference: KB = 25' @ 3329.0usft
 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	Ruby 2 Fed Com		
Site Position:		Northing:	393,589.99 usft
From:	Map	Easting:	775,148.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 47.315 N
		Longitude:	103° 34' 42.355 W
		Grid Convergence:	0.40 °

Well	#702H		
Well Position	+N/-S	57.0 usft	Northing:
	+E/-W	41,187.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 4' 44.776 N
		Longitude:	103° 26' 43.667 W
		Ground Level:	3,304.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	1/23/2017	(°)
			6.93
			Dip Angle
			(°)
			59.95
			Field Strength
			(nT)
			47,906.90600967

Design	Plan #0.2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			180.56

Plan Survey Tool Program	Date	7/12/2017		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	22,795.3 Plan #0.2 (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)		
0.0	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	
4,170.7	1.71	313.15	4,170.7	1.7	-1.9	1.00	1.00	0.00	313.15	
12,236.4	1.71	313.15	12,232.8	166.1	-177.2	0.00	0.00	0.00	0.00	
12,996.3	90.00	179.50	12,720.0	-311.4	-183.5	12.00	11.62	-17.59	-133.63	
22,795.3	90.00	179.50	12,720.0	-10,110.0	-98.0	0.00	0.00	0.00	0.00	0.00 PBHL (Ruby 2 Fed Co



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 Well: #702H
 Wellbore: OH
 Design: Plan #0.2

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 MD Reference: KB = 25' @ 3329.0usft
 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	1.00	313.15	4,100.0	0.6	-0.6	-0.6	1.00	1.00	0.00
4,170.7	1.71	313.15	4,170.7	1.7	-1.9	-1.7	1.00	1.00	0.00
4,200.0	1.71	313.15	4,200.0	2.3	-2.5	-2.3	0.00	0.00	0.00
4,300.0	1.71	313.15	4,299.9	4.4	-4.7	-4.3	0.00	0.00	0.00
4,400.0	1.71	313.15	4,399.9	6.4	-6.8	-6.3	0.00	0.00	0.00
4,500.0	1.71	313.15	4,499.8	8.4	-9.0	-8.4	0.00	0.00	0.00
4,600.0	1.71	313.15	4,599.8	10.5	-11.2	-10.4	0.00	0.00	0.00
4,700.0	1.71	313.15	4,699.7	12.5	-13.4	-12.4	0.00	0.00	0.00
4,800.0	1.71	313.15	4,799.7	14.6	-15.5	-14.4	0.00	0.00	0.00
4,900.0	1.71	313.15	4,899.7	16.6	-17.7	-16.4	0.00	0.00	0.00
5,000.0	1.71	313.15	4,999.6	18.6	-19.9	-18.4	0.00	0.00	0.00
5,100.0	1.71	313.15	5,099.6	20.7	-22.1	-20.5	0.00	0.00	0.00
5,200.0	1.71	313.15	5,199.5	22.7	-24.2	-22.5	0.00	0.00	0.00



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Planning Report

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 Site: Ruby 2 Fed Com
 Well: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
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 MD Reference: KB = 25' @ 3329.0usft
 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)
5,300.0	1.71	313.15	5,299.5	24.7	-26.4	-24.5	0.00	0.00	0.00
5,400.0	1.71	313.15	5,399.4	26.8	-28.6	-26.5	0.00	0.00	0.00
5,500.0	1.71	313.15	5,499.4	28.8	-30.7	-28.5	0.00	0.00	0.00
5,600.0	1.71	313.15	5,599.3	30.9	-32.9	-30.5	0.00	0.00	0.00
5,700.0	1.71	313.15	5,699.3	32.9	-35.1	-32.6	0.00	0.00	0.00
5,800.0	1.71	313.15	5,799.3	34.9	-37.3	-34.6	0.00	0.00	0.00
5,900.0	1.71	313.15	5,899.2	37.0	-39.4	-36.6	0.00	0.00	0.00
6,000.0	1.71	313.15	5,999.2	39.0	-41.6	-38.6	0.00	0.00	0.00
6,100.0	1.71	313.15	6,099.1	41.0	-43.8	-40.6	0.00	0.00	0.00
6,200.0	1.71	313.15	6,199.1	43.1	-46.0	-42.6	0.00	0.00	0.00
6,300.0	1.71	313.15	6,299.0	45.1	-48.1	-44.7	0.00	0.00	0.00
6,400.0	1.71	313.15	6,399.0	47.2	-50.3	-46.7	0.00	0.00	0.00
6,500.0	1.71	313.15	6,498.9	49.2	-52.5	-48.7	0.00	0.00	0.00
6,600.0	1.71	313.15	6,598.9	51.2	-54.7	-50.7	0.00	0.00	0.00
6,700.0	1.71	313.15	6,698.9	53.3	-56.8	-52.7	0.00	0.00	0.00
6,800.0	1.71	313.15	6,798.8	55.3	-59.0	-54.7	0.00	0.00	0.00
6,900.0	1.71	313.15	6,898.8	57.3	-61.2	-56.7	0.00	0.00	0.00
7,000.0	1.71	313.15	6,998.7	59.4	-63.4	-58.8	0.00	0.00	0.00
7,100.0	1.71	313.15	7,098.7	61.4	-65.5	-60.8	0.00	0.00	0.00
7,200.0	1.71	313.15	7,198.6	63.5	-67.7	-62.8	0.00	0.00	0.00
7,300.0	1.71	313.15	7,298.6	65.5	-69.9	-64.8	0.00	0.00	0.00
7,400.0	1.71	313.15	7,398.5	67.5	-72.0	-66.8	0.00	0.00	0.00
7,500.0	1.71	313.15	7,498.5	69.6	-74.2	-68.8	0.00	0.00	0.00
7,600.0	1.71	313.15	7,598.5	71.6	-76.4	-70.9	0.00	0.00	0.00
7,700.0	1.71	313.15	7,698.4	73.6	-78.6	-72.9	0.00	0.00	0.00
7,800.0	1.71	313.15	7,798.4	75.7	-80.7	-74.9	0.00	0.00	0.00
7,900.0	1.71	313.15	7,898.3	77.7	-82.9	-76.9	0.00	0.00	0.00
8,000.0	1.71	313.15	7,998.3	79.8	-85.1	-78.9	0.00	0.00	0.00
8,100.0	1.71	313.15	8,098.2	81.8	-87.3	-80.9	0.00	0.00	0.00
8,200.0	1.71	313.15	8,198.2	83.8	-89.4	-83.0	0.00	0.00	0.00
8,300.0	1.71	313.15	8,298.1	85.9	-91.6	-85.0	0.00	0.00	0.00
8,400.0	1.71	313.15	8,398.1	87.9	-93.8	-87.0	0.00	0.00	0.00
8,500.0	1.71	313.15	8,498.1	89.9	-96.0	-89.0	0.00	0.00	0.00
8,600.0	1.71	313.15	8,598.0	92.0	-98.1	-91.0	0.00	0.00	0.00
8,700.0	1.71	313.15	8,698.0	94.0	-100.3	-93.0	0.00	0.00	0.00
8,800.0	1.71	313.15	8,797.9	96.1	-102.5	-95.1	0.00	0.00	0.00
8,900.0	1.71	313.15	8,897.9	98.1	-104.7	-97.1	0.00	0.00	0.00
9,000.0	1.71	313.15	8,997.8	100.1	-106.8	-99.1	0.00	0.00	0.00
9,100.0	1.71	313.15	9,097.8	102.2	-109.0	-101.1	0.00	0.00	0.00
9,200.0	1.71	313.15	9,197.7	104.2	-111.2	-103.1	0.00	0.00	0.00
9,300.0	1.71	313.15	9,297.7	106.2	-113.3	-105.1	0.00	0.00	0.00
9,400.0	1.71	313.15	9,397.7	108.3	-115.5	-107.2	0.00	0.00	0.00
9,500.0	1.71	313.15	9,497.6	110.3	-117.7	-109.2	0.00	0.00	0.00
9,600.0	1.71	313.15	9,597.6	112.4	-119.9	-111.2	0.00	0.00	0.00
9,700.0	1.71	313.15	9,697.5	114.4	-122.0	-113.2	0.00	0.00	0.00
9,800.0	1.71	313.15	9,797.5	116.4	-124.2	-115.2	0.00	0.00	0.00
9,900.0	1.71	313.15	9,897.4	118.5	-126.4	-117.2	0.00	0.00	0.00
10,000.0	1.71	313.15	9,997.4	120.5	-128.6	-119.2	0.00	0.00	0.00
10,100.0	1.71	313.15	10,097.3	122.5	-130.7	-121.3	0.00	0.00	0.00
10,200.0	1.71	313.15	10,197.3	124.6	-132.9	-123.3	0.00	0.00	0.00
10,300.0	1.71	313.15	10,297.3	126.6	-135.1	-125.3	0.00	0.00	0.00
10,400.0	1.71	313.15	10,397.2	128.7	-137.3	-127.3	0.00	0.00	0.00
10,500.0	1.71	313.15	10,497.2	130.7	-139.4	-129.3	0.00	0.00	0.00
10,600.0	1.71	313.15	10,597.1	132.7	-141.6	-131.3	0.00	0.00	0.00



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10,700.0	1.71	313.15	10,697.1	134.8	-143.8	-133.4	0.00	0.00	0.00
10,800.0	1.71	313.15	10,797.0	136.8	-145.9	-135.4	0.00	0.00	0.00
10,900.0	1.71	313.15	10,897.0	138.8	-148.1	-137.4	0.00	0.00	0.00
11,000.0	1.71	313.15	10,996.9	140.9	-150.3	-139.4	0.00	0.00	0.00
11,100.0	1.71	313.15	11,096.9	142.9	-152.5	-141.4	0.00	0.00	0.00
11,200.0	1.71	313.15	11,196.9	144.9	-154.6	-143.4	0.00	0.00	0.00
11,300.0	1.71	313.15	11,296.8	147.0	-156.8	-145.5	0.00	0.00	0.00
11,400.0	1.71	313.15	11,396.8	149.0	-159.0	-147.5	0.00	0.00	0.00
11,500.0	1.71	313.15	11,496.7	151.1	-161.2	-149.5	0.00	0.00	0.00
11,600.0	1.71	313.15	11,596.7	153.1	-163.3	-151.5	0.00	0.00	0.00
11,700.0	1.71	313.15	11,696.6	155.1	-165.5	-153.5	0.00	0.00	0.00
11,800.0	1.71	313.15	11,796.6	157.2	-167.7	-155.5	0.00	0.00	0.00
11,900.0	1.71	313.15	11,896.5	159.2	-169.9	-157.6	0.00	0.00	0.00
12,000.0	1.71	313.15	11,996.5	161.2	-172.0	-159.6	0.00	0.00	0.00
12,100.0	1.71	313.15	12,096.5	163.3	-174.2	-161.6	0.00	0.00	0.00
12,200.0	1.71	313.15	12,196.4	165.3	-176.4	-163.6	0.00	0.00	0.00
12,236.4	1.71	313.15	12,232.8	166.1	-177.2	-164.3	0.00	0.00	0.00
12,250.0	1.31	249.51	12,246.4	166.1	-177.5	-164.4	12.00	-2.89	-469.18
12,275.0	3.66	199.18	12,271.4	165.3	-178.0	-163.6	12.00	9.40	-201.30
12,300.0	6.57	190.30	12,296.3	163.1	-178.5	-161.4	12.00	11.61	-35.53
12,325.0	9.53	186.88	12,321.0	159.7	-179.0	-157.9	12.00	11.85	-13.67
12,350.0	12.51	185.08	12,345.6	154.9	-179.5	-153.2	12.00	11.92	-7.21
12,375.0	15.50	183.96	12,369.8	148.9	-180.0	-147.1	12.00	11.95	-4.47
12,400.0	18.49	183.20	12,393.7	141.6	-180.4	-139.8	12.00	11.97	-3.05
12,425.0	21.48	182.64	12,417.2	133.1	-180.9	-131.3	12.00	11.98	-2.23
12,450.0	24.48	182.22	12,440.2	123.3	-181.3	-121.5	12.00	11.98	-1.70
12,475.0	27.48	181.88	12,462.7	112.4	-181.7	-110.6	12.00	11.99	-1.35
12,500.0	30.47	181.60	12,484.6	100.3	-182.0	-98.5	12.00	11.99	-1.11
12,525.0	33.47	181.37	12,505.8	87.0	-182.4	-85.3	12.00	11.99	-0.92
12,550.0	36.47	181.17	12,526.2	72.7	-182.7	-70.9	12.00	11.99	-0.79
12,575.0	39.47	181.00	12,546.0	57.3	-183.0	-55.6	12.00	11.99	-0.68
12,600.0	42.46	180.85	12,564.8	41.0	-183.2	-39.2	12.00	11.99	-0.60
12,625.0	45.46	180.72	12,582.8	23.6	-183.5	-21.8	12.00	11.99	-0.54
12,650.0	48.46	180.59	12,599.9	5.3	-183.7	-3.5	12.00	11.99	-0.48
12,675.0	51.46	180.48	12,616.0	-13.8	-183.9	15.6	12.00	12.00	-0.44
12,700.0	54.46	180.38	12,631.0	-33.8	-184.0	35.5	12.00	12.00	-0.41
12,725.0	57.46	180.29	12,645.0	-54.5	-184.1	56.3	12.00	12.00	-0.38
12,750.0	60.46	180.20	12,657.9	-75.9	-184.2	77.7	12.00	12.00	-0.35
12,775.0	63.46	180.12	12,669.7	-98.0	-184.3	99.7	12.00	12.00	-0.33
12,800.0	66.46	180.04	12,680.2	-120.6	-184.3	122.4	12.00	12.00	-0.32
12,809.8	67.63	180.01	12,684.1	-129.6	-184.3	131.4	12.00	12.00	-0.31
FTP (Ruby 2 Fed Com #702H)									
12,825.0	69.45	179.96	12,689.6	-143.8	-184.3	145.5	12.00	12.00	-0.30
12,850.0	72.45	179.89	12,697.8	-167.4	-184.3	169.2	12.00	12.00	-0.29
12,875.0	75.45	179.82	12,704.7	-191.4	-184.2	193.2	12.00	12.00	-0.28
12,900.0	78.45	179.75	12,710.3	-215.8	-184.1	217.5	12.00	12.00	-0.27
12,925.0	81.45	179.69	12,714.7	-240.4	-184.0	242.2	12.00	12.00	-0.27
12,950.0	84.45	179.62	12,717.8	-265.2	-183.9	267.0	12.00	12.00	-0.26
12,975.0	87.45	179.56	12,719.5	-290.1	-183.7	291.9	12.00	12.00	-0.26
12,996.3	90.00	179.50	12,720.0	-311.4	-183.5	313.1	12.00	12.00	-0.26
13,000.0	90.00	179.50	12,720.0	-315.1	-183.5	316.9	0.00	0.00	0.00
13,100.0	90.00	179.50	12,720.0	-415.1	-182.6	416.9	0.00	0.00	0.00
13,200.0	90.00	179.50	12,720.0	-515.1	-181.7	516.8	0.00	0.00	0.00



EOG Resources, Inc.

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 Project: Lea County, NM (NAD 83 NME)
 Site: Ruby 2 Fed Com
 Well: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25' @ 3329.0usft
 MD Reference: KB = 25' @ 3329.0usft
 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	179.50	12,720.0	-615.1	-180.9	616.8	0.00	0.00	0.00
13,400.0	90.00	179.50	12,720.0	-715.1	-180.0	716.8	0.00	0.00	0.00
13,500.0	90.00	179.50	12,720.0	-815.1	-179.1	816.8	0.00	0.00	0.00
13,600.0	90.00	179.50	12,720.0	-915.1	-178.2	916.8	0.00	0.00	0.00
13,700.0	90.00	179.50	12,720.0	-1,015.1	-177.4	1,016.8	0.00	0.00	0.00
13,800.0	90.00	179.50	12,720.0	-1,115.1	-176.5	1,116.7	0.00	0.00	0.00
13,900.0	90.00	179.50	12,720.0	-1,215.1	-175.6	1,216.7	0.00	0.00	0.00
14,000.0	90.00	179.50	12,720.0	-1,315.1	-174.8	1,316.7	0.00	0.00	0.00
14,100.0	90.00	179.50	12,720.0	-1,415.1	-173.9	1,416.7	0.00	0.00	0.00
14,200.0	90.00	179.50	12,720.0	-1,515.1	-173.0	1,516.7	0.00	0.00	0.00
14,300.0	90.00	179.50	12,720.0	-1,615.1	-172.1	1,616.7	0.00	0.00	0.00
14,400.0	90.00	179.50	12,720.0	-1,715.1	-171.3	1,716.6	0.00	0.00	0.00
14,500.0	90.00	179.50	12,720.0	-1,815.1	-170.4	1,816.6	0.00	0.00	0.00
14,600.0	90.00	179.50	12,720.0	-1,915.1	-169.5	1,916.6	0.00	0.00	0.00
14,700.0	90.00	179.50	12,720.0	-2,015.1	-168.6	2,016.6	0.00	0.00	0.00
14,800.0	90.00	179.50	12,720.0	-2,115.0	-167.8	2,116.6	0.00	0.00	0.00
14,900.0	90.00	179.50	12,720.0	-2,215.0	-166.9	2,216.6	0.00	0.00	0.00
15,000.0	90.00	179.50	12,720.0	-2,315.0	-166.0	2,316.5	0.00	0.00	0.00
15,100.0	90.00	179.50	12,720.0	-2,415.0	-165.2	2,416.5	0.00	0.00	0.00
15,200.0	90.00	179.50	12,720.0	-2,515.0	-164.3	2,516.5	0.00	0.00	0.00
15,300.0	90.00	179.50	12,720.0	-2,615.0	-163.4	2,616.5	0.00	0.00	0.00
15,400.0	90.00	179.50	12,720.0	-2,715.0	-162.5	2,716.5	0.00	0.00	0.00
15,500.0	90.00	179.50	12,720.0	-2,815.0	-161.7	2,816.5	0.00	0.00	0.00
15,600.0	90.00	179.50	12,720.0	-2,915.0	-160.8	2,916.4	0.00	0.00	0.00
15,700.0	90.00	179.50	12,720.0	-3,015.0	-159.9	3,016.4	0.00	0.00	0.00
15,800.0	90.00	179.50	12,720.0	-3,115.0	-159.0	3,116.4	0.00	0.00	0.00
15,900.0	90.00	179.50	12,720.0	-3,215.0	-158.2	3,216.4	0.00	0.00	0.00
16,000.0	90.00	179.50	12,720.0	-3,315.0	-157.3	3,316.4	0.00	0.00	0.00
16,100.0	90.00	179.50	12,720.0	-3,415.0	-156.4	3,416.4	0.00	0.00	0.00
16,200.0	90.00	179.50	12,720.0	-3,515.0	-155.6	3,516.3	0.00	0.00	0.00
16,300.0	90.00	179.50	12,720.0	-3,615.0	-154.7	3,616.3	0.00	0.00	0.00
16,400.0	90.00	179.50	12,720.0	-3,715.0	-153.8	3,716.3	0.00	0.00	0.00
16,500.0	90.00	179.50	12,720.0	-3,815.0	-152.9	3,816.3	0.00	0.00	0.00
16,600.0	90.00	179.50	12,720.0	-3,915.0	-152.1	3,916.3	0.00	0.00	0.00
16,700.0	90.00	179.50	12,720.0	-4,015.0	-151.2	4,016.3	0.00	0.00	0.00
16,800.0	90.00	179.50	12,720.0	-4,115.0	-150.3	4,116.2	0.00	0.00	0.00
16,900.0	90.00	179.50	12,720.0	-4,215.0	-149.4	4,216.2	0.00	0.00	0.00
17,000.0	90.00	179.50	12,720.0	-4,315.0	-148.6	4,316.2	0.00	0.00	0.00
17,100.0	90.00	179.50	12,720.0	-4,415.0	-147.7	4,416.2	0.00	0.00	0.00
17,200.0	90.00	179.50	12,720.0	-4,515.0	-146.8	4,516.2	0.00	0.00	0.00
17,300.0	90.00	179.50	12,720.0	-4,615.0	-146.0	4,616.2	0.00	0.00	0.00
17,400.0	90.00	179.50	12,720.0	-4,715.0	-145.1	4,716.1	0.00	0.00	0.00
17,500.0	90.00	179.50	12,720.0	-4,814.9	-144.2	4,816.1	0.00	0.00	0.00
17,600.0	90.00	179.50	12,720.0	-4,914.9	-143.3	4,916.1	0.00	0.00	0.00
17,700.0	90.00	179.50	12,720.0	-5,014.9	-142.5	5,016.1	0.00	0.00	0.00
17,800.0	90.00	179.50	12,720.0	-5,114.9	-141.6	5,116.1	0.00	0.00	0.00
17,900.0	90.00	179.50	12,720.0	-5,214.9	-140.7	5,216.1	0.00	0.00	0.00
18,000.0	90.00	179.50	12,720.0	-5,314.9	-139.8	5,316.0	0.00	0.00	0.00
18,100.0	90.00	179.50	12,720.0	-5,414.9	-139.0	5,416.0	0.00	0.00	0.00
18,200.0	90.00	179.50	12,720.0	-5,514.9	-138.1	5,516.0	0.00	0.00	0.00
18,300.0	90.00	179.50	12,720.0	-5,614.9	-137.2	5,616.0	0.00	0.00	0.00
18,400.0	90.00	179.50	12,720.0	-5,714.9	-136.4	5,716.0	0.00	0.00	0.00
18,500.0	90.00	179.50	12,720.0	-5,814.9	-135.5	5,815.9	0.00	0.00	0.00
18,600.0	90.00	179.50	12,720.0	-5,914.9	-134.6	5,915.9	0.00	0.00	0.00



EOG Resources, Inc.
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Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3329.0usft
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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	179.50	12,720.0	-6,014.9	-133.7	6,015.9	0.00	0.00	0.00
18,800.0	90.00	179.50	12,720.0	-6,114.9	-132.9	6,115.9	0.00	0.00	0.00
18,900.0	90.00	179.50	12,720.0	-6,214.9	-132.0	6,215.9	0.00	0.00	0.00
19,000.0	90.00	179.50	12,720.0	-6,314.9	-131.1	6,315.9	0.00	0.00	0.00
19,100.0	90.00	179.50	12,720.0	-6,414.9	-130.2	6,415.8	0.00	0.00	0.00
19,200.0	90.00	179.50	12,720.0	-6,514.9	-129.4	6,515.8	0.00	0.00	0.00
19,300.0	90.00	179.50	12,720.0	-6,614.9	-128.5	6,615.8	0.00	0.00	0.00
19,400.0	90.00	179.50	12,720.0	-6,714.9	-127.6	6,715.8	0.00	0.00	0.00
19,500.0	90.00	179.50	12,720.0	-6,814.9	-126.8	6,815.8	0.00	0.00	0.00
19,600.0	90.00	179.50	12,720.0	-6,914.9	-125.9	6,915.8	0.00	0.00	0.00
19,700.0	90.00	179.50	12,720.0	-7,014.9	-125.0	7,015.7	0.00	0.00	0.00
19,800.0	90.00	179.50	12,720.0	-7,114.9	-124.1	7,115.7	0.00	0.00	0.00
19,900.0	90.00	179.50	12,720.0	-7,214.9	-123.3	7,215.7	0.00	0.00	0.00
20,000.0	90.00	179.50	12,720.0	-7,314.9	-122.4	7,315.7	0.00	0.00	0.00
20,100.0	90.00	179.50	12,720.0	-7,414.8	-121.5	7,415.7	0.00	0.00	0.00
20,200.0	90.00	179.50	12,720.0	-7,514.8	-120.6	7,515.7	0.00	0.00	0.00
20,300.0	90.00	179.50	12,720.0	-7,614.8	-119.8	7,615.6	0.00	0.00	0.00
20,400.0	90.00	179.50	12,720.0	-7,714.8	-118.9	7,715.6	0.00	0.00	0.00
20,500.0	90.00	179.50	12,720.0	-7,814.8	-118.0	7,815.6	0.00	0.00	0.00
20,600.0	90.00	179.50	12,720.0	-7,914.8	-117.2	7,915.6	0.00	0.00	0.00
20,700.0	90.00	179.50	12,720.0	-8,014.8	-116.3	8,015.6	0.00	0.00	0.00
20,800.0	90.00	179.50	12,720.0	-8,114.8	-115.4	8,115.6	0.00	0.00	0.00
20,900.0	90.00	179.50	12,720.0	-8,214.8	-114.5	8,215.5	0.00	0.00	0.00
21,000.0	90.00	179.50	12,720.0	-8,314.8	-113.7	8,315.5	0.00	0.00	0.00
21,100.0	90.00	179.50	12,720.0	-8,414.8	-112.8	8,415.5	0.00	0.00	0.00
21,200.0	90.00	179.50	12,720.0	-8,514.8	-111.9	8,515.5	0.00	0.00	0.00
21,300.0	90.00	179.50	12,720.0	-8,614.8	-111.0	8,615.5	0.00	0.00	0.00
21,400.0	90.00	179.50	12,720.0	-8,714.8	-110.2	8,715.5	0.00	0.00	0.00
21,500.0	90.00	179.50	12,720.0	-8,814.8	-109.3	8,815.4	0.00	0.00	0.00
21,600.0	90.00	179.50	12,720.0	-8,914.8	-108.4	8,915.4	0.00	0.00	0.00
21,700.0	90.00	179.50	12,720.0	-9,014.8	-107.6	9,015.4	0.00	0.00	0.00
21,800.0	90.00	179.50	12,720.0	-9,114.8	-106.7	9,115.4	0.00	0.00	0.00
21,900.0	90.00	179.50	12,720.0	-9,214.8	-105.8	9,215.4	0.00	0.00	0.00
22,000.0	90.00	179.50	12,720.0	-9,314.8	-104.9	9,315.4	0.00	0.00	0.00
22,100.0	90.00	179.50	12,720.0	-9,414.8	-104.1	9,415.3	0.00	0.00	0.00
22,200.0	90.00	179.50	12,720.0	-9,514.8	-103.2	9,515.3	0.00	0.00	0.00
22,300.0	90.00	179.50	12,720.0	-9,614.8	-102.3	9,615.3	0.00	0.00	0.00
22,400.0	90.00	179.50	12,720.0	-9,714.8	-101.4	9,715.3	0.00	0.00	0.00
22,500.0	90.00	179.50	12,720.0	-9,814.8	-100.6	9,815.3	0.00	0.00	0.00
22,600.0	90.00	179.50	12,720.0	-9,914.8	-99.7	9,915.3	0.00	0.00	0.00
22,700.0	90.00	179.50	12,720.0	-10,014.7	-98.8	10,015.2	0.00	0.00	0.00
22,795.3	90.00	179.50	12,720.0	-10,110.0	-98.0	10,110.5	0.00	0.00	0.00

PBHL (Ruby 2 Fed Com #702H)



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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 (Ruby 2 Fed Com - plan hits target center - Point	0.00	0.07	12,720.0	-10,110.0	-98.0	383,537.00	816,237.00	32° 3' 4.744 N	103° 26' 45.772 W
FTP (Ruby 2 Fed Com # - plan misses target center by 49.6usft at 12809.8usft MD (12684.1 TVD, -129.6 N, -184.3 E) - Point	0.00	0.07	12,730.0	-111.0	-185.0	393,536.00	816,150.00	32° 4' 43.692 N	103° 26' 45.827 W